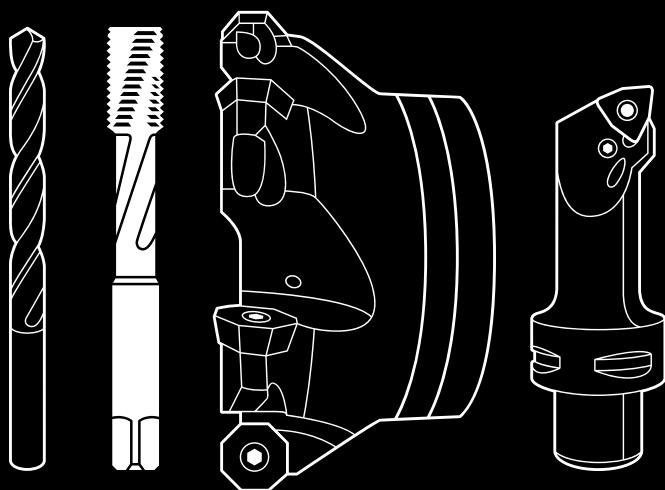


_ METAL IS OUR WORLD

Tools for Threading



How to find and order your tool solution:



Personal – worldwide

You can contact us by phone, fax or e-mail. The contact details for your local contact can be found on our website at: **walter-tools.com**



The Walter Hybrid catalogs and brochures

show the entire standard range under the Walter, Walter Titex, Walter Prototyp and Walter Multiply competence brands – in print or in digital format – with product range overviews, product data, cutting data recommendations and much more. Including links to our machining navigator, Walter GPS, or the Walter TOOLSHOP with the chance to order directly.

At **walter-tools.com**, you can access and order your Walter products quickly and conveniently online – via smartphone, tablet or PC.

The benefit for you: Direct access from any device, displayed in an optimized form, at any time.

Walter online catalog



Tool-specific search

You can find products in the Walter online catalog using the familiar structure of our product catalog as well as filter and search functions. Other features: A shopping function and links to drawings and models.

Walter GPS



Application-based search

With Walter GPS, it takes just a few steps to find the optimum machining solution for your component, online and offline – and the solution can be transferred directly to the Walter TOOLSHOP if required.

Walter Innotime®



Component-based search

With Walter Innotime®, you can find the most cost-effective machining solution for your component, including all the tools, machining steps and machining parameters required for this. Simply by uploading your 3D model.

Digital ordering methods



TOOLSHOP



EDI B2B

Walter TOOLSHOP & EDI

The Walter TOOLSHOP offers customers opportunities to find information and place orders quickly.

EDI (electronic data interchange) also makes it possible to exchange documents (e.g. orders) – even special tools can be ordered.

	Page
C – Threading	7
C1: Tapping	8
C – Threading	299
C2: Thread forming	300
C – Threading	357
C3: Thread milling	358
C – Threading	501
C4: Tapping	502

The structure of the new Walter General Catalog

The new Walter General Catalog presents information about products and applications in a comprehensive and clear manner as an e-document – including direct links to the Walter online catalog.

Milling tools with indexable inserts				
Face milling cutters				
Machining				
Lead angle κ	45°	45°	45°	45°
Designation	M5009 Xtra-tec® XT	M4003	M3024 Walter BLAXX	F4045 Xtra-tec®
Diameter range [mm] [inch]	40–160 1,500–6,000	20–160 0,750–6,000	40–160 2,000–6,000	63–160 —
Boring bar/adaptor type				
DIN 1835 B				
Shell mill mount DIN 138	✓	✓	✓	✓
ScrewFit	✓			
Cylindrical shank		✓	✓	
Cylindrical modular				
Steep taper				
HSK				
NCT				
P Steel	••	••	••	••
M Stainless steel	••	••	••	••
K Cast iron	••	••	••	••
N NF metals	••	••	••	••
S Materials with difficult cutting properties	••	••	••	••
H Hard materials	•	•	•	•
O Other	•	•	•	•
Indexable inserts				
Number of cutting edges	8 / 2	4 / 1	14 / 2	4 - 6
Max. depth of cut [mm]	5 - 6	4,5 - 6,5	4 - 6	4 - 6
Page in catalogue	390	394	388	400
QR code				
www.walter-tools.com/wec/				
M5009 M4003 M3024 F4045				
WALTER SELECT				
•• Primary application • Other application				
Face milling cutters 329				

Product range overviews with applications, materials and QR codes at a glance

The product range overviews include icons indicating applications, images of the products, and the range of materials for which the products can be used; if relevant, they also include shank versions, clamping systems and other important information. This means that you can immediately see which product you need – and go directly to more detailed information about it by scanning the corresponding QR code or typing the link provided into your browser.

NEW

Tools with this icon are product innovations and are displayed in this way in the product range overviews.



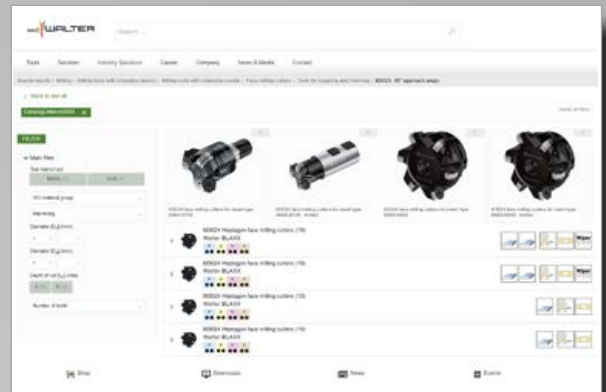
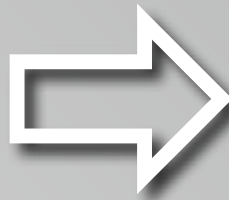
Indexable inserts and tools with these red icons are new to the range and are labelled in this way on the ordering page.

Scan the QR code

to go directly to the sub-page for the corresponding product in the Walter online catalog. The brief overview contains an image of the tool or product, icons representing applications and other information, and the main and secondary applications in the ISO materials sector.



M3024



Direct link

As well as scanning the QR code, you can also type the link directly into your browser:

www.walter-tools.com/woc/M3024.

In the e-document, you can of course click on the link itself.



Detailed overview of product data

Depending on the product, the information available here or on the following product details page will include dimensions, corresponding indexable inserts, adaptors, and accessories, as well as direct links to additional information such as cutting data recommendations via Walter GPS or technical information like assembly instructions, limit speeds and much more.

Heptagon face milling cutters

M3024

Walter BLAXX



> 14 cutting edges per indexable insert

M3024

Key (explanation of symbols)

Switch to inch values

Column selection

Designation	D _h mm	D _h mm	d ₁ mm	L ₁ mm	L ₂ mm
Parallel bore DIN 138 transverse keyway - x°45° - metric (4)	53 - 125	75.96 - 137.86	22 - 40/40 B	40 - 63	5
M3024-050-B02-05-05 Availability	53	75.96	22	40	5
M3024-080-B02-05-05 Availability	80	92.96	27	50	5
M3024-100-B02-07-05 Availability	100	112.86	32	50	5
M3024-125-B40-08-05 Availability	125	137.86	40/40 B	63	5
Parallel bore DIN 138 transverse keyway - x°45° - metric (1)	160	172.86	40/40 B	63	5

Technologies at Walter.

Accure-tec

The patented Walter Accure-tec technology ensures maximum vibration damping on boring bars for turning and adaptors for milling. Ideal for turning, milling and drilling operations involving extended tool applications.

Tiger-tec®Gold

Tiger-tec® Gold is the new Walter generation platform for unique indexable insert coatings. It makes maximum tool life and process reliability possible. The CVD grade is produced using the innovative ultra low pressure method (ULP-CVD). The special titanium aluminum nitride layer makes them highly resistant to abrasion, hairline cracks, oxidation and plastic deformation. The heat-resistant, tough PVD grade with aluminum oxide multi-layer is suitable for difficult machining conditions.

Tiger-tec®Silver

With Tiger-tec® Silver, Walter is offering a world first in coating technology for indexable inserts. The special aluminum oxide layer with optimized microstructure reduces wear during turning, milling and drilling operations, and increases toughness and temperature resistance for significantly higher cutting data.

Walter BLAXX

Walter BLAXX is the benchmark for a new generation of milling cutters: The milling bodies are extremely robust thanks to their special surface treatment. The milling systems, which are mainly positioned tangentially, are equipped with Tiger-tec® indexable inserts. Tools with the "Walter BLAXX" designation combine high wear resistance with unbeatable performance data.

Walter Green

Walter Green: Sustainability and responsible use of resources are central components of our company principles. We use our "Walter Green" seal to show how we implement these principles, such as by offsetting our CO₂ emissions with environmental conservation projects.

Walter Nexxt

Engineering Kompetenz and digital expertise go hand in hand at Walter. Together with our wholly owned software subsidiary Comara, we develop digital solutions that efficiently connect machines and tools, optimizing their performance on the basis of real-time data. Digital solutions on a level playing field with Industry 4.0 – Walter Nexxt.

Walter Xpress

Walter Xpress is the rapid ordering and delivery service offered by Walter MultiPLY for high-quality special tools. It is available for around 10,000 tool varieties, with a maximum delivery time of two to four weeks from the order date. The ordering process is clearly structured and guarantees absolute planning security. Quotations for all inquiries are calculated and provided within 24 hours.

XD Technology

Walter Titex solid carbide drilling and reaming tools stand for precision, high performance and cost-efficiency when drilling in practically any material. Walter Titex XD Technology offers the greatest precision and cost-efficiency in deep-hole drilling operations up to 70 × D_c without pecking.

Xill-tec™

With Xill-tec™, the solid carbide milling cutters from the MC230 Advance product range, Walter offers a uniquely wide range, with different dimensions, numbers of teeth and shank versions. This means that users are well-equipped for all conceivable milling operations and ISO materials. Universal use – with excellent quality.

Xtra-tec®

Xtra-tec® indexable insert milling cutters and drills guarantee extremely soft cutting action and optimal surface quality on almost all materials. Indexable inserts with highly positive geometries and the Tiger-tec® coating have a particularly beneficial hardness/toughness ratio. For maximum productivity and process reliability.

Xtra-tec® XT

Xtra-tec® XT is the latest generation of Walter milling tools. As the "Xtended" Xtra-tec® technology, it offers a completely new perspective on productivity and process reliability. It can cover nearly all milling operations in every common material group: More reliable, productive, cost-efficient than ever before – all while compensating for the CO₂ emissions through Walter Green.

X-treme Evo

The X-treme Evo solid carbide drills from the DC160 Advance product range and DC260 Advance step drills embody "the next generation of drilling": Can be used universally for all ISO material groups, machine concepts and applications. With outstanding tool life, productivity and process reliability.



Walter Capto™ is a modular tool adaptor system. It is suitable for all turning, milling, drilling and threading processes. Its ISO-standardized polygon taper absorbs torsional moments and bending moments extremely well and ensures optimal repeat accuracy.



Walter ConeFit is an extremely flexible solid carbide milling system with a wide range of high-performance exchangeable heads and shaft variants. Its conical thread can self-center, thereby guaranteeing maximum stability and concentricity.



Walter ScrewFit users benefit from maximum flexibility. Its modular interface is suitable for a wide variety of boring bars and adaptors and a wide range of tool diameters and lengths for milling and drilling.



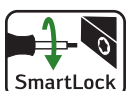
The precision-ground QuadFit interface with taper and support face characteristics the precision of the vibration-damped boring bars for turning and thread turning with Walter Accure-tec technology. The exchangeable head system, which can be rotated by 180°, makes it possible to rapidly replace tools with high indexing accuracy.



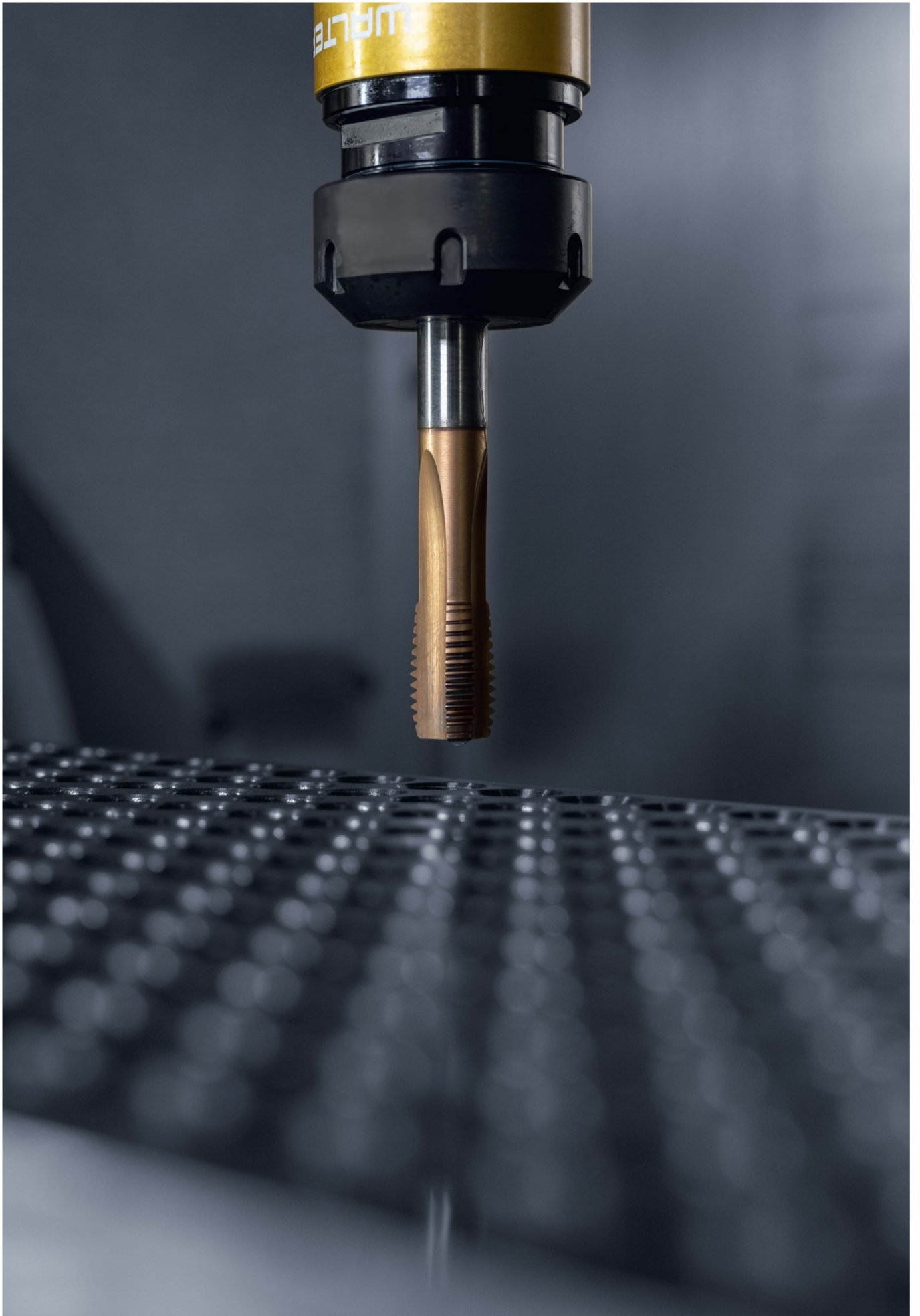
In turning and grooving operations, the Walter precision cooling system provides cooling at the center of the chip formation. Its dual coolant jets are directed precisely onto the flank and rake faces. In drilling operations, the coolant jets exit close to the cutting edge, cooling the flank and rake faces at the same time. This system provides significantly increased tool life, improved chip breaking and chip removal, greater efficiency and higher quality.



"Flash" refers to specialized solid carbide milling cutters for high-feed milling. Their end-face geometry reduces the chip thickness "h" and therefore enables an extremely high feed per tooth. Forces that occur are diverted axially towards the center of the tool, which helps to stabilize the machining process.



On Walter turning toolholders with "SmartLock", the clamping screw can be operated from the side of the tool. This makes it possible to change the inserts in the machine quickly and easily. Tool change times are reduced as a result. Ideal for use on CNC lathe and multi-spindle machines.

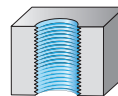


C – Threading

C1: Tapping		Page
HSS-E (-PM) taps	Product range overview	
	HSS-E (-PM) taps	8
	Order pages	
	HSS-E (-PM) taps	21
	M – Metric thread	53
	MF – Metric fine-pitch thread	124
	UNC/UNF/UN 8	171
	MJ/UNJC/UNJF	218
	G/Rc/Rp	224
	NPT/NPTF	242
	Pg/BSW/Tr	250
	STI/Eg/thread insert	255
Solid carbide taps	Product range overview	
	Solid carbide taps	278
	Order pages	
	M – Metric thread	280
	MF – Metric fine-pitch thread	290
	UNC, UNF	295
	G	297

HSS-E (-PM) taps

Machining



Thread depth

1 x D_N

1 x D_N

1 x D_N

1 x D_N

1 x D_N


Designation

AMB

AMB Inco

MMB

Protostep Inco

Prototex® OS

Thread type

M

✓

✓

✓

✓

✓

MF

UNC / UNF / UN-8

G / Rc / Rp

MJ / UNJC / UNJF

NPT / NPTF

Pg / BSW / Tr

STI / Eg / thread insert

Tolerance

7G

6HX

6H

6HX

6H

Coolant supply

External

External

External

External

External

Chamfer form

18 P

18 P

NA

B

Coating / grade

TIN

NID

uncoated

VAP

uncoated

Cutting tool material

HSS-E

HSS-E

HSS-E

HSS-E

HSS-E

P Steel

● ●

● ●

● ●

M Stainless steel

● ●

● ●

K Cast iron

N NF metals

●

S Materials with difficult cutting properties

H Hard materials

O Other

Page in catalog

C 57

C 58

C 56

C 59

C 29

QR code



www.walter-tools.com/woc/

amb

amb-inco

mmb

protostep-inco

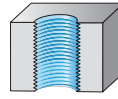
prototex-os

WALTER SELECT

● ● Primary application ● Other application

HSS-E (-PM) taps

Machining



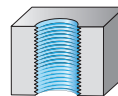
Thread depth

2 x D_N2 x D_N2 x D_N3 x D_N3 x D_N

Designation	Prototex® TiNi	Prototex® TiNi Plus	TMB	KMB H	Paradur® N
Thread type					
M	✓	✓		✓	✓
MF	✓	✓			
UNC / UNF / UN-8	✓				
G / Rc / Rp					
MJ / UNJC / UNJF		✓			
NPT / NPTF					
Pg / BSW / Tr			✓	✓	
STI / Eg / thread insert	✓				
Tolerance	2B / 3B / 4H / 4HX / 6HX	3B / 6HX	7H	6H / NORMAL	6H
Coolant supply	External	External	External	External	External
Chamfer form	B	B	24 P	B	D
Coating / grade	TICN / uncoated	ACN	uncoated	uncoated	uncoated
Cutting tool material	HSS-E-PM	HSS-E-PM	HSS-E	HSS-E	HSS-E
P Steel	●●		●●	●●	●●
M Stainless steel	●●				
K Cast iron			●●	●●	●●
N NF metals	●		●●	●●	●●
S Materials with difficult cutting properties	●●	●●			
H Hard materials					
O Other			●	●	
Page in catalog	C 257	C 47	C 253	C 55	C 30
QR code					
www.walter-tools.com/woc/	prototex-tini	prototex-tini-plus	tmb	kmb-h	paradur-n

HSS-E (-PM) taps

Machining



Thread depth

 $3 \times D_N$
 $3 \times D_N$
 $3 \times D_N$
 $3 \times D_N$
 $3 \times D_N$


Designation

Prototex® Megasprint

Prototex® Sprint

Prototex®
Synchrospeed

Prototex® X-pert M

Prototex® X-pert N

Thread type

M

✓

✓

✓

✓

✓

MF

✓

✓

✓

UNC / UNF / UN-8

✓

G / Rc / Rp

✓

MJ / UNJC / UNJF

NPT / NPTF

Pg / BSW / Tr

STI / Eg / thread insert

✓

Tolerance

6H

6H

6HX

2B / 3B / 5HX / 6GX
/ 6HMOD / 6HX /
NORMAL

6H

Coolant supply

radial

External

External

External

External

Chamfer form

B

B

B

B

B

Coating / grade

TIN

TICN / TIN

THL / TIN

TICN / TIN / VAP

uncoated

Cutting tool material

HSS-E-PM

HSS-E-PM

HSS-E

HSS-E

HSS-E

P Steel

●

●

●●

●

M Stainless steel

●

●

●●

●●

K Cast iron

●●

N NF metals

●

●

●●

●●

●●

S Materials with difficult cutting properties

●●

●

H Hard materials

O Other

●●

●

Page in catalog

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C 28

C 256

QR code


www.walter-tools.com/woc/

prototex-megasprint

prototex-sprint

prototex-synchrospeed

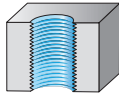
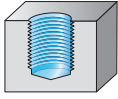
prototex-xpert-m

prototex-xpert-n

WALTER SELECT

●● Primary application ● Other application

HSS-E (-PM) taps

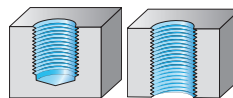
Machining					
Thread depth	3 x D _N	3 x D _N	3,5 x D _N	3,5 x D _N	1,5 x D _N



Designation	Prototex® X-pert P	Prototex® X-pert P AZ	Prototex® Eco Plus	TC216 Perform	Paradur® H
Thread type					
M	✓	✓	✓	✓	✓
MF	✓		✓	✓	✓
UNC / UNF / UN-8	✓		✓	✓	
G / Rc / Rp	✓		✓		✓
MJ / UNJC / UNJF					
NPT / NPTF					
Pg / BSW / Tr	✓				
STI / Eg / thread insert	✓				
Tolerance	2B / 3B / 4H / 6G / 6H / 6HMOD / 7G / MEDIUM / NORMAL	6H	2B / 6GX / 6HX / NORMAL	2B / 6H	6H / NORMAL
Coolant supply	External	External	External / radial	External	External
Chamfer form	B	B	B	B	C
Coating / grade	TICN / TIN / uncoated	uncoated	THL / TIN	WY80AA / WY80FC	TIN / uncoated
Cutting tool material	HSS-E	HSS-E	HSS-E-PM	HSS-E	HSS-E
P Steel	●●	●●	●●	●●	●●
M Stainless steel	●●	●●	●●	●●	●●
K Cast iron	●●	●●	●●	●●	●
N NF metals	●●	●●	●●	●●	●●
S Materials with difficult cutting properties	●●	●●	●●	●●	●●
H Hard materials	●	●	●	●	●
O Other	●	●	●	●	●
Page in catalog	C 255	C 38	C 224	C 25	C 230
QR code					
www.walter-tools.com/woc/	prototex-xpert-p	prototex-xpert-p-az	prototex-eco-plus	TC216	paradur-h

HSS-E (-PM) taps

Machining



Thread depth

 $1,5 \times D_N$
 $2 \times D_N$
 $2 \times D_N$
 $2 \times D_N$
 $2 \times D_N$


Designation

Paradrur® H AZ

HGB

HGB Inox

HGB Ti

Paradrur® AP

Thread type

M

✓

✓

✓

✓

✓

MF

UNC / UNF / UN-8

G / Rc / Rp

MJ / UNJC / UNJF

NPT / NPTF

Pg / BSW / Tr

STI / Eg / thread insert

Tolerance

6H

6H

6HX

6HX

6HX

Coolant supply

External

External

External

External

External

Chamfer form

C

C

C

C

C

Coating / grade

uncoated

uncoated

VAP

NID

NIT

Cutting tool material

HSS-E

HSS

HSS-E

HSS-E

HSS-E

P Steel

M Stainless steel

K Cast iron

N NF metals

S Materials with difficult cutting properties

H Hard materials

O Other

●

●

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C 50

C 51

C 52

C 115

QR code



www.walter-tools.com/woc/

paradrur-h-az

hgb

hgb-inox

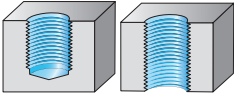
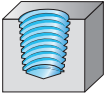
hgb-ti

paradrur-ap

WALTER SELECT

● ● Primary application ● Other application

HSS-E (-PM) taps

Machining					
Thread depth	2 x D _N	3 x D _N	3 x D _N	3 x D _N	

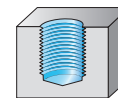
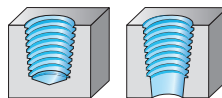


Designation	Paradur® FT	KMB Ms	Paradur® Eco CI	Paradur® X-pert K	Paradur Inox®
Thread type					
M	✓	✓	✓	✓	
MF			✓		
UNC / UNF / UN-8			✓		
G / Rc / Rp		✓	✓		
MJ / UNJC / UNJF					
NPT / NPTF					✓
Pg / BSW / Tr					
STI / Eg / thread insert					
Tolerance	6H	6H / NORMAL	2B / 6HX / NORMAL	6HX	NORMAL
Coolant supply	External	External	External	External	External
Chamfer form	D	E / F	C / E	C	C
Coating / grade	uncoated	uncoated	NiD / TiCN	TAFT	THL / VAP
Cutting tool material	HSS-E-PM	HSS-E	HSS-E-PM	HSS-E-PM	HSS-E
P Steel					● ●
M Stainless steel					● ●
K Cast iron			● ●	● ●	●
N NF metals		● ●	● ●	●	
S Materials with difficult cutting properties	●				
H Hard materials					
O Other	●	●	● ●		
Page in catalog	C 121	C 227	C 237	C 110	C 244
QR code					
www.walter-tools.com/woc/	paradur-ft	kmb-ms	paradur-eco-ci	paradur-xpert-k	paradur-inox

C1

HSS-E (-PM) taps

Machining



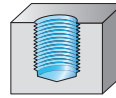
Thread depth

 $1,5 \times D_N$


Designation	Paradur Inox® 40	Paradur® H	Paradur® N	Paradur® Ni	Paradur Inox® 25
Thread type					
M					✓
MF					✓
UNC / UNF / UN-8					
G / Rc / Rp		✓			✓
MJ / UNJC / UNJF					
NPT / NPTF	✓	✓	✓	✓	
Pg / BSW / Tr					
STI / Eg / thread insert					
Tolerance	NORMAL	NORMAL	NORMAL	NORMAL	6HX / NORMAL
Coolant supply	External	External	External	External	External
Chamfer form	C	C	C	C	E
Coating / grade	uncoated	uncoated	VAP	TICN / uncoated	TIN
Cutting tool material	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E
P Steel	●●		●●	●	●●
M Stainless steel	●●				●●
K Cast iron	●	●	●●		
N NF metals	●	●●	●●		
S Materials with difficult cutting properties				●●	
H Hard materials					
O Other		●			
Page in catalog	C 245	C 240	C 243	C 246	C 236
QR code					
www.walter-tools.com/woc/	paradur-inox-40	paradur-h	paradur-n	paradur-ni	paradur-inox-25

HSS-E (-PM) taps

Machining



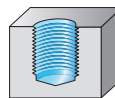
Thread depth

1,5 x D_N1,5 x D_N1,5 x D_N1,5 x D_N1,5 x D_N

Designation	Paradur® HN	Paradur® N	Paradur® Ni	Paradur® Ni 10	TC122 Supreme
Thread type					
M		✓	✓	✓	✓
MF	✓	✓		✓	
UNC / UNF / UN-8		✓	✓		
G / Rc / Rp		✓			
MJ / UNJC / UNJF				✓	
NPT / NPTF					
Pg / BSW / Tr					
STI / Eg / thread insert			✓		
Tolerance	6HX	2B / 3B / 6G / 6H / NORMAL	2B / 3B / 4H / 4HX / 6HX	3B / 4H / 6HX	6HX
Coolant supply	External	External	External	External	External
Chamfer form	E	C	C	C	C
Coating / grade	uncoated	TICN / TIN / uncoated	TICN / uncoated	TIN / uncoated	WW60BC
Cutting tool material	HSS-E	HSS-E	HSS-E-PM	HSS-E-PM	HSS-E-PM
P Steel	●●	●●	●●	●●	●●
M Stainless steel					
K Cast iron	●●	●●	●●		●
N NF metals	●●	●●	●	●	
S Materials with difficult cutting properties			●●	●●	
H Hard materials					
O Other					
Page in catalog	C 148	C 231	C 261	C 118	C 86
QR code					
www.walter-tools.com/woc/	paradur-hn	paradur-n	paradur-ni	paradur-ni-10	TC122

HSS-E (-PM) taps

Machining



Thread depth

 $2 \times D_N$
 $2 \times D_N$
 $2,5 \times D_N$
 $2,5 \times D_N$
 $2,5 \times D_N$


Designation

Paradur® Ti

Paradur® Ti Plus

Paradur® H 24

Paradur® STE

Paradur® Synchrospeed

Thread type

M

✓

✓

✓

✓

✓

MF

✓

✓

✓

✓

UNC / UNF / UN-8

✓

G / Rc / Rp

✓

✓

MJ / UNJC / UNJF

✓

✓

NPT / NPTF

Pg / BSW / Tr

STI / Eg / thread insert

✓

Tolerance

2B / 3B / 4H / 6HX

3B / 6HX

6HX

6HX / NORMAL

6HX / NORMAL

Coolant supply

External

External

External

External

External / axial

Chamfer form

C

C

C

E

C

Coating / grade

TiCN / uncoated

ACN

uncoated

THL / uncoated

THL / TiN/VAP

Cutting tool material

HSS-E-PM

HSS-E-PM

HSS-E-PM

HSS-E

HSS-E

P Steel

● ●

●

●

● ●

M Stainless steel

●

● ●

K Cast iron

●

●

● ●

N NF metals

●

●

●

S Materials with difficult cutting properties

● ●

● ●

●

H Hard materials

O Other

●

Page in catalog

C 262

C 120

C 81

C 233

C 229

QR code



www.walter-tools.com/woc/

paradur-ti

paradur-ti-plus

paradur-h-24

paradur-ste

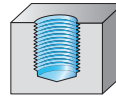
paradur-synchrospeed

WALTER SELECT

● ● Primary application ● Other application

HSS-E (-PM) taps

Machining



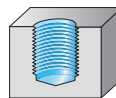
Thread depth

2,5 x D_N2,5 x D_N2,5 x D_N3 x D_N3 x D_N

Designation	Paradur® X-pert M	TC121 Supreme	TC122 Supreme	KMB WST	Paradur® Eco CI
Thread type					
M	✓	✓	✓	✓	✓
MF	✓				✓
UNC / UNF / UN-8	✓				
G / Rc / Rp	✓				
MJ / UNJC / UNJF					
NPT / NPTF					
Pg / BSW / Tr					
STI / Eg / thread insert	✓				
Tolerance	2B / 3B / 6GX / 6HMOD / 6HX / NORMAL	6HX	6HX	6H	6HX
Coolant supply	External	External / axial	axial	External	axial / radial
Chamfer form	C	C	C	C	C / E
Coating / grade	THL / TiCN / TiN / VAP	WW60RG / WY80BD	WW60BC	uncoated	TiCN
Cutting tool material	HSS-E	HSS-E-PM	HSS-E-PM	HSS-E	HSS-E-PM
P Steel	●	●●	●●	●●	
M Stainless steel	●●	●			
K Cast iron		●	●	●	●●
N NF metals		●		●	●●
S Materials with difficult cutting properties					
H Hard materials					
O Other					●●
Page in catalog	C 267	C 84	C 87	C 53	C 108
QR code					
www.walter-tools.com/woc/	paradur-xpert-m	TC121	TC122	kmb-wst	paradur-eco-ci

HSS-E (-PM) taps

Machining



Thread depth

 $3 \times D_N$
 $3 \times D_N$
 $3 \times D_N$
 $3 \times D_N$
 $3 \times D_N$


Designation

Paradur® Eco Plus

Paradur® Uni

Paradur® WLM
Synchrospeed

Paradur® X-pert N

Paradur® X-pert P

Thread type

M

✓

✓

✓

✓

✓

MF

✓

✓

✓

✓

UNC / UNF / UN-8

✓

✓

✓

G / Rc / Rp

✓

✓

✓

✓

MJ / UNJC / UNJF

NPT / NPTF

Pg / BSW / Tr

✓

STI / Eg / thread insert

✓

✓

Tolerance

2B / 6GX / 6HX /
NORMAL

6G / 6H / NORMAL

6H

2B / 3B / 6G / 6H /
6HMOD / NORMAL

2B / 3B / 4H / 6G /
6H / 6HMOD / 7G /
MEDIUM / NORMAL

Coolant supply

External / axial /
radial

External

External

External

External

Chamfer form

C / E

C

C

C

C

Coating / grade

THL / TIN

TIN / VAP / uncoated

CRN / uncoated

uncoated

THL / TIN / uncoated

Cutting tool material

HSS-E-PM

HSS-E

HSS-E

HSS-E

HSS-E

P Steel

● ●

● ●

●

● ●

M Stainless steel

● ●

● ●

●

● ●

K Cast iron

● ●

●

● ●

●

N NF metals

● ●

●

● ●

●

S Materials with difficult cutting properties

● ●

● ●

● ●

●

H Hard materials

O Other

● ●

● ●

● ●

●

●

Page in catalog

C 228

C 239

C 114

C 268

C 258

QR code


www.walter-tools.com/woc/

paradur-eco-plus

paradur-uni

paradur-wlm-synchrospeed

paradur-xpert-n

paradur-xpert-p

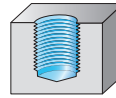
WALTER SELECT

● ● Primary application

● Other application

HSS-E (-PM) taps

Machining



Thread depth

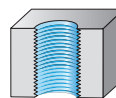
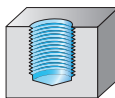
3 x D_N3 x D_N3 x D_N3 x D_N3,5 x D_N

Designation	Paradur® X-pert P AZ	TC115 Perform	TC120 Supreme	TC142 Supreme	Paradur® NH
Thread type					
M	✓	✓	✓	✓	✓
MF		✓		✓	
UNC / UNF / UN-8		✓			
G / Rc / Rp				✓	
MJ / UNJC / UNJF					
NPT / NPTF					
Pg / BSW / Tr					
STI / Eg / thread insert					
Tolerance	6H	2B / 6H	6HX	6HX / NORMAL	6H
Coolant supply	External	External	External / axial	External	axial
Chamfer form	C	C / E	C	C	C
Coating / grade	uncoated	WY80AA / WY80FC	WW60AG	WW60RB / WY80FC	TIN / uncoated
Cutting tool material	HSS-E	HSS-E	HSS-E-PM	HSS-E / HSS-E-PM	HSS-E
P Steel	● ●	● ●	● ●	●	● ●
M Stainless steel		● ●		● ●	
K Cast iron		● ●			● ●
N NF metals	●	●	●		●
S Materials with difficult cutting properties					
H Hard materials					
O Other	●				●
Page in catalog	C 94	C 67	C 82	C 234	C 80
QR code					
www.walter-tools.com/woc/	paradur-xpert-p-az	TC115	TC120	TC142	paradur-nh

C1

HSS-E (-PM) taps

Machining



Thread depth

 $3,5 \times D_N$
 $3,5 \times D_N$

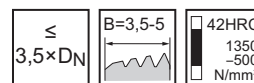
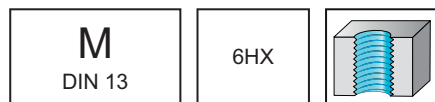

Designation	Paradur® Short Chip HT	TC130 Supreme	TC115 Perform	TC216 Perform
Thread type				
M	✓	✓		
MF	✓	✓		
UNC / UNF / UN-8		✓		
G / Rc / Rp				
MJ / UNJC / UNJF				
NPT / NPTF				
Pg / BSW / Tr				
STI / Eg / thread insert				
Tolerance	6HX	2BX / 6HX		
Coolant supply	axial	axial	External	External
Chamfer form	C	C		
Coating / grade	THL / uncoated	WY80AA / WY80EH	WY80AA / WY80FC	WY80AA / WY80FC
Cutting tool material	HSS-E	HSS-E		
P Steel	●●	●●	●●	●●
M Stainless steel			●●	●●
K Cast iron	●	●●	●●	●●
N NF metals	●	●	●	●●
S Materials with difficult cutting properties				
H Hard materials				
O Other		●		
Page in catalog	C 97	C 76	C 69	C 26
QR code				
www.walter-tools.com/woc/	paradur-short-chip-ht	TC130		

HSS-E PM machine taps

Prototex® Eco Plus

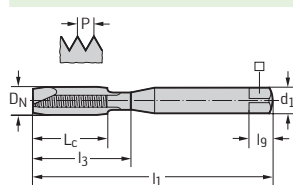


– For long-chipping materials



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●	●●	●●	●●
TIN	●●	●●	●●	●●	●●	●●	●●

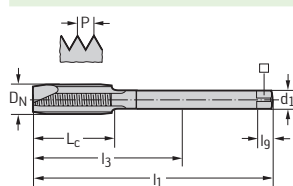
DIN 371



Designation THL	Designation TIN	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
EP2021302-M2	EP2021305-M2	M 2	0.4	45	6	9	2.8	2.1	5	3
EP2021302-M2.5	EP2021305-M2.5	M 2.5	0.45	50	8	12.5	2.8	2.1	5	3
EP2021302-M3	EP2021305-M3	M 3	0.5	56	9	18	3.5	2.7	6	3
EP2021302-M4	EP2021305-M4	M 4	0.7	63	12	21	4.5	3.4	6	3
EP2021302-M5	EP2021305-M5	M 5	0.8	70	13	25	6	4.9	8	3
EP2021302-M6	EP2021305-M6	M 6	1	80	15	30	6	4.9	8	3
EP2021302-M8	EP2021305-M8	M 8	1.25	90	18	35	8	6.2	9	3
EP2021302-M10	EP2021305-M10	M 10	1.5	100	20	39	10	8	11	3

Ordering example for the grade THL: EP2021302-M2

DIN 376



Designation THL	Designation TIN	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
EP2026302-M12	EP2026305-M12	M 12	1.75	110	23	83	9	7	10	4
EP2026302-M14	EP2026305-M14	M 14	2	110	25	81	11	9	12	4
EP2026302-M16	EP2026305-M16	M 16	2	110	25	68	12	9	12	4
EP2026302-M18	EP2026305-M18	M 18	2.5	125	30	81	14	11	14	4
EP2026302-M20	EP2026305-M20	M 20	2.5	140	30	95	16	12	15	4
EP2026302-M24	EP2026305-M24	M 24	3	160	36	113	18	14.5	17	4
EP2026302-M27		M 27	3	160	36	97	20	16	19	4
EP2026302-M30		M 30	3.5	180	42	115	22	18	21	4

Ordering example for the grade THL: EP2021302-M12

**WALTER
SELECT**

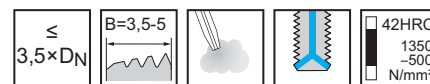
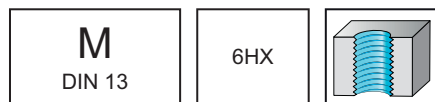
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E PM machine taps

Prototex® Eco Plus

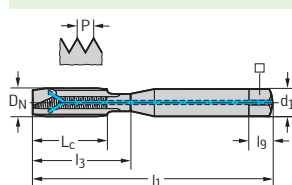


– For long-chipping materials



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			

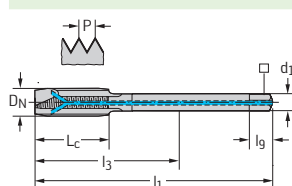
DIN 371



Designation THL	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
EP2021342-M6	M 6	1	80	15	30	6	4.9	8	3
EP2021342-M8	M 8	1.25	90	18	35	8	6.2	9	3
EP2021342-M10	M 10	1.5	100	20	39	10	8	11	3

Ordering example for the grade THL: EP2021342-M6

DIN 376



Designation THL	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
EP2026342-M12	M 12	1.75	110	23	83	9	7	10	4
EP2026342-M16	M 16	2	110	25	68	12	9	12	4

Ordering example for the grade THL: EP2026342-M12

**WALTER
SELECT**

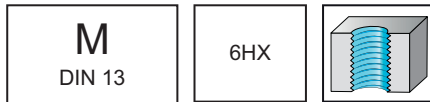
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Prototex® Eco Plus

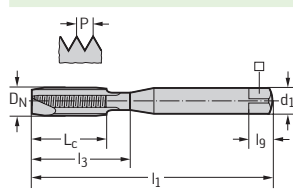


– For long-chipping materials



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			

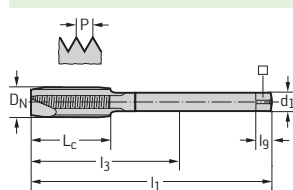
DIN 371



Designation THL	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
EP2021382-M3	M 3	0.5	56	9	18	3.5	2.7	6	3
EP2021382-M4	M 4	0.7	63	12	21	4.5	3.4	6	3
EP2021382-M5	M 5	0.8	70	13	25	6	4.9	8	3
EP2021382-M6	M 6	1	80	15	30	6	4.9	8	3
EP2021382-M8	M 8	1.25	90	18	35	8	6.2	9	3
EP2021382-M10	M 10	1.5	100	20	39	10	8	11	3

Ordering example for the grade THL: EP2021382-M3

DIN 376



Designation THL	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
EP2026382-M12	M 12	1.75	110	23	83	9	7	10	4
EP2026382-M16	M 16	2	110	25	68	12	9	12	4
EP2026382-M20	M 20	2.5	140	30	95	16	12	15	4

Ordering example for the grade THL: EP2026382-M12

**WALTER
SELECT**

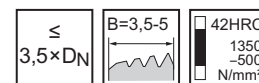
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Prototex® Eco Plus

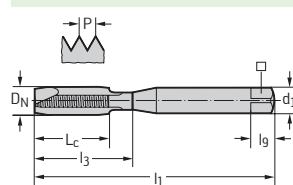


– For long-chipping materials



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●	●●	●●	●●
TIN	●●	●●	●●	●●	●●	●●	●●

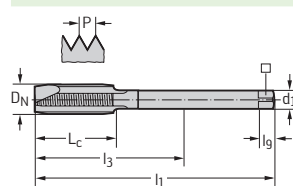
DIN 371



Designation THL	Designation TIN	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
EP2023302-M2	EP2023305-M2	M 2	0.4	45	6	9	2.8	2.1	5	3
EP2023302-M2.5	EP2023305-M2.5	M 2.5	0.45	50	8	12.5	2.8	2.1	5	3
EP2023302-M3	EP2023305-M3	M 3	0.5	56	9	18	3.5	2.7	6	3
EP2023302-M4	EP2023305-M4	M 4	0.7	63	12	21	4.5	3.4	6	3
EP2023302-M5	EP2023305-M5	M 5	0.8	70	13	25	6	4.9	8	3
EP2023302-M6	EP2023305-M6	M 6	1	80	15	30	6	4.9	8	3
EP2023302-M8	EP2023305-M8	M 8	1.25	90	18	35	8	6.2	9	3
EP2023302-M10	EP2023305-M10	M 10	1.5	100	20	39	10	8	11	3

Ordering example for the grade THL: EP2023302-M2

DIN 376



Designation THL	Designation TIN	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
EP2028302-M12	EP2028305-M12	M 12	1.75	110	23	83	9	7	10	4
EP2028302-M14	EP2028305-M14	M 14	2	110	25	81	11	9	12	4
EP2028302-M16	EP2028305-M16	M 16	2	110	25	68	12	9	12	4

Ordering example for the grade THL: EP2023302-M12

WALTER
SELECT

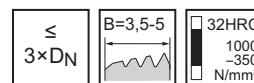
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

TC216 Perform



– For long-chipping materials



	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●●	●●	●●	●●	●●	●●
WY80FC (VAP)	●●	●●	●●	●●	●●	●●	●●

DIN 371	Designation WY80AA	Designation WY80FC	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC216-M1.6-C0-	TC216-M1.6-C0-	M 1.6	0.35	40	7	7	2.5	2.1	5	2
	TC216-M2-C0-	TC216-M2-C0-	M 2	0.4	45	6	9	2.8	2.1	5	2
	TC216-M2.5-C0-	TC216-M2.5-C0-	M 2.5	0.45	50	8	12.5	2.8	2.1	5	2
	TC216-M3-C0-	TC216-M3-C0-	M 3	0.5	56	9	18	3.5	2.7	6	2
	TC216-M4-C0-	TC216-M4-C0-	M 4	0.7	63	12	21	4.5	3.4	6	3
	TC216-M5-C0-	TC216-M5-C0-	M 5	0.8	70	13	25	6	4.9	8	3
	TC216-M6-C0-	TC216-M6-C0-	M 6	1	80	15	30	6	4.9	8	3
	TC216-M8-C0-	TC216-M8-C0-	M 8	1.25	90	18	35	8	6.2	9	3
	TC216-M10-C0-	TC216-M10-C0-	M 10	1.5	100	20	39	10	8	11	3

Ordering example for the grade WY80AA: TC216-M1.6-C0-WY80AA

DIN 376	Designation WY80AA	Designation WY80FC	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC216-M12-L0-	TC216-M12-L0-	M 12	1.75	110	23	83	9	7	10	3
	TC216-M14-L0-	TC216-M14-L0-	M 14	2	110	25	81	11	9	12	4
	TC216-M16-L0-	TC216-M16-L0-	M 16	2	110	25	68	12	9	12	4
	TC216-M20-L0-	TC216-M20-L0-	M 20	2.5	140	30	95	16	12	15	4

Ordering example for the grade WY80AA: TC216-M12-L0-WY80AA

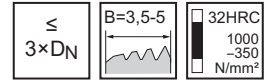
**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E tap set 1 TC216 Perform



– Universal tap set



	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●●	●●	●●			
WY80FC (VAP)	●●	●●	●●	●●			

Tool

Designation	D _N	Quantity	WY80AA	WY80FC
TC216-SET1-M3-M12-	M 3 – M 12	7	☞	☞

Ordering example for the grade WY80AA: TC216-SET1-M3-M12-WY80AA

C1

**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

HSS-E tap set 2
TC216 Perform



- Universal tap set
- Incl. Core-hole drill

M
DIN 13

ISO2/6H

$\leq 3 \times D_N$

B=3,5-5

32HRC
1000
-350
N/mm²

	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●●	●●	●●			
WY80FC (VAP)	●●	●●	●●	●●			

Tool						WY80AA	WY80FC
Designation	D _N	Sets dia. mm	Sets dia. mm	Quantity			
TC216-SET2-M3-M12-	M 3 – M 12	2.5	10.2	14			

Ordering example for the grade WY80AA: TC216-SET2-M3-M12-WY80AA

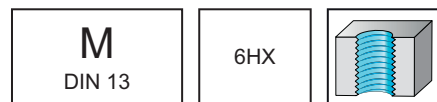
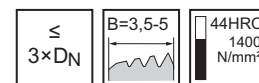
C1

HSS-E machine taps

Prototex® Synchrospeed



- For long-chipping materials
- Only for synchronous machining (rigid tapping)



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●	●●	●●	●●
TIN	●●	●●	●●	●●	●●	●●	●●

~DIN 371	Designation THL	Designation TIN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□	l ₉ mm	N
	S2021302-M2	S2021305-M2	M 2	0.4	70	4	9	6	4.9	8	3
	S2021302-M2.5	S2021305-M2.5	M 2.5	0.45	70	5	12.5	6	4.9	8	3
	S2021302-M3	S2021305-M3	M 3	0.5	70	5	18	6	4.9	8	3
	S2021302-M4	S2021305-M4	M 4	0.7	70	7	21	6	4.9	8	3
	S2021302-M5	S2021305-M5	M 5	0.8	70	8	25	6	4.9	8	3
	S2021302-M6	S2021305-M6	M 6	1	80	10	30	6	4.9	8	3
	S2021302-M8	S2021305-M8	M 8	1.25	90	13	35	8	6.2	9	3
	S2021302-M10	S2021305-M10	M 10	1.5	100	15	39	10	8	11	3

C1

~DIN 376	Designation THL	Designation TIN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□	l ₉ mm	N
	S2026302-M12	S2026305-M12	M 12	1.75	110	18	68	12	9	12	3
	S2026302-M14	S2026305-M14	M 14	2	110	20	66	14	11	14	3
	S2026302-M16	S2026305-M16	M 16	2	110	20	65	16	12	15	4
	S2026302-M20	S2026305-M20	M 20	2.5	140	25	95	16	12	15	4
	S2026302-M24	S2026305-M24	M 24	3	160	30	97	20	16	19	4

WALTER
SELECT

●● Primary application ● Other application

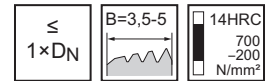
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Prototex® OS



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●			●			

DIN 371	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	20211-M1	M 1	0.25	40	5	5	2.5	2.1	5	2
	20211-M1.2	M 1.2	0.25	40	5	5	2.5	2.1	5	2
	20211-M1.4	M 1.4	0.3	40	7	6.5	2.5	2.1	5	2
	20211-M1.6	M 1.6	0.35	40	7	7	2.5	2.1	5	2
	20211-M1.7	M 1.7	0.35	40	7	7	2.5	2.1	5	2
	20211-M1.8	M 1.8	0.35	40	7	7	2.5	2.1	5	2
	20211-M2	M 2	0.4	45	6	9	2.8	2.1	5	2
	20211-M2.5	M 2.5	0.45	50	8	12.5	2.8	2.1	5	2
	20211-M2.6	M 2.6	0.45	50	8	12.5	2.8	2.1	5	2
	20211-M3	M 3	0.5	56	9	18	3.5	2.7	6	2
	20211-M4	M 4	0.7	63	12	21	4.5	3.4	6	2
	20211-M5	M 5	0.8	70	13	25	6	4.9	8	2
	20211-M6	M 6	1	80	15	30	6	4.9	8	3
	20211-M8	M 8	1.25	90	18	35	8	6.2	9	3
	20211-M10	M 10	1.5	100	20	39	10	8	11	3

≤ M 1.4: 5H

≤ M 1.8: Without reduced neck after the thread

C1

**WALTER
SELECT**

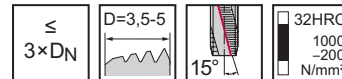
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine taps

Paradur® N



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●		●●	●●			

DIN 371	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	20411-M3	M 3	0.5	56	9	18	3.5	2.7	6	3
	20411-M4	M 4	0.7	63	12	21	4.5	3.4	6	3
	20411-M5	M 5	0.8	70	13	25	6	4.9	8	3
	20411-M6	M 6	1	80	15	30	6	4.9	8	3

DIN 376	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	20461-M6	M 6	1	80	15	59	4.5	3.4	6	3
	20461-M8	M 8	1.25	90	18	67	6	4.9	8	3
	20461-M10	M 10	1.5	100	20	77	7	5.5	8	3
	20461-M12	M 12	1.75	110	23	83	9	7	10	3

WALTER
SELECT

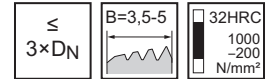
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Prototex® X-pert P

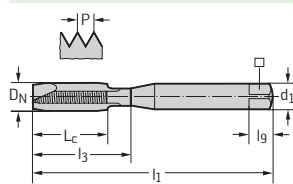


- Reduced number of flutes
- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 371



Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
P20200-M1.6	M 1.6	0.35	40	7	7	2.5	2.1	5	2
P20200-M2	M 2	0.4	45	6	9	2.8	2.1	5	2
P20200-M2.2	M 2.2	0.45	45	7	12	2.8	2.1	5	2
P20200-M2.5	M 2.5	0.45	50	8	12.5	2.8	2.1	5	2
P20200-M3	M 3	0.5	56	9	18	3.5	2.7	6	2
P20200-M3.5	M 3.5	0.6	56	11	20	4	3	6	2
P20200-M4	M 4	0.7	63	12	21	4.5	3.4	6	2
P20200-M5	M 5	0.8	70	13	25	6	4.9	8	2
P20200-M6	M 6	1	80	15	30	6	4.9	8	2
P20200-M8	M 8	1.25	90	18	35	8	6.2	9	3
P20200-M10	M 10	1.5	100	20	39	10	8	11	3

M 1.6: Without reduced neck after the thread

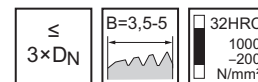
C1

**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Prototex® X-pert P

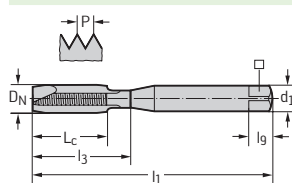


– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●			●			●
TIN	●●			●			●
TICN	●●			●			●

DIN 371



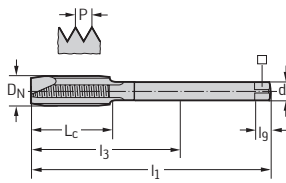
Designation TICN	Designation TIN	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
P2031006-M2	P2031005-M2	P20310-M2	M 2	0.4	45	6	9	2.8	2.1	5	3
	P2031005-M2.2	P20310-M2.2	M 2.2	0.45	45	7	12	2.8	2.1	5	3
P2031006-M2.5	P2031005-M2.5	P20310-M2.5	M 2.5	0.45	50	8	12.5	2.8	2.1	5	3
P2031006-M3	P2031005-M3	P20310-M3	M 3	0.5	56	9	18	3.5	2.7	6	3
		P20310-M3.5	M 3.5	0.6	56	11	20	4	3	6	3
P2031006-M4	P2031005-M4	P20310-M4	M 4	0.7	63	12	21	4.5	3.4	6	3
P2031006-M5	P2031005-M5	P20310-M5	M 5	0.8	70	13	25	6	4.9	8	3
P2031006-M6	P2031005-M6	P20310-M6	M 6	1	80	15	30	6	4.9	8	3
	P2031005-M7	P20310-M7	M 7	1	80	15	30	7	5.5	8	3
P2031006-M8	P2031005-M8	P20310-M8	M 8	1.25	90	18	35	8	6.2	9	3
P2031006-M10	P2031005-M10	P20310-M10	M 10	1.5	100	20	39	10	8	11	3

l_g dimensions in accordance with DIN 10

WALTER
SELECT

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

DIN 376



Cylindrical shank

Designation TiCN	Designation TiN	Designation uncoated	D _N	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
		P20360-M2	M 2	45	6	26	1.4	1.1	4	3
		P20360-M2.5	M 2.5	50	8	31	1.8	1.4	4	3
		P20360-M3	M 3	56	9	37	2.2	1.8	4	3
		P20360-M4	M 4	63	12	43	2.8	2.1	5	3
		P20360-M5	M 5	70	13	49	3.5	2.7	6	3
P2036006-M6	P2036005-M6	P20360-M6	M 6	80	15	59	4.5	3.4	6	3
		P20360-M7	M 7	80	15	58	5.5	4.3	7	3
P2036006-M8	P2036005-M8	P20360-M8	M 8	90	18	67	6	4.9	8	3
		P20360-M9	M 9	90	18	67	7	5.5	8	3
P2036006-M10	P2036005-M10	P20360-M10	M 10	100	20	77	7	5.5	8	3
P2036006-M12	P2036005-M12	P20360-M12	M 12	110	23	83	9	7	10	3
	P2036005-M14	P20360-M14	M 14	110	25	81	11	9	12	3
P2036006-M16	P2036005-M16	P20360-M16	M 16	110	25	68	12	9	12	3
	P2036005-M18	P20360-M18	M 18	125	30	81	14	11	14	4
P2036006-M20	P2036005-M20	P20360-M20	M 20	140	30	95	16	12	15	4
		P20360-M22	M 22	140	30	93	18	14.5	17	4
P2036006-M24	P2036005-M24	P20360-M24	M 24	160	36	113	18	14.5	17	4
	P2036005-M27	P20360-M27	M 27	160	36	97	20	16	19	4
P2036006-M30	P2036005-M30	P20360-M30	M 30	180	42	115	22	18	21	4
		P20360-M33	M 33	180	42	113	25	20	23	4
	P2036005-M36	P20360-M36	M 36	200	48	131	28	22	25	4
		P20360-M39	M 39	200	48	102	32	24	27	4
		P20360-M42	M 42	200	54	102	32	24	27	4
		P20360-M45	M 45	220	54	117	36	29	32	4
		P20360-M48	M 48	250	60	147	36	29	32	4
		P20360-M52	M 52	250	60	120	40	32	35	4
		P20360-M56	M 56	250	66	120	40	32	35	4

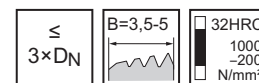
l_g dimensions in accordance with DIN 10

HSS-E machine taps

Prototex® X-pert P

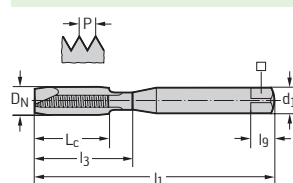


- Reduced number of flutes
- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●			●			●
TIN	●●			●			●

DIN 371



Designation TIN	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	P20210-M1	M 1	0.25	40	5	5	2.5	2.1	5	2
P2021005-M1.2	P20210-M1.2	M 1.2	0.25	40	5	5	2.5	2.1	5	2
P2021005-M1.4	P20210-M1.4	M 1.4	0.3	40	7	6.5	2.5	2.1	5	2
P2021005-M1.6	P20210-M1.6	M 1.6	0.35	40	7	7	2.5	2.1	5	2
	P20210-M1.8	M 1.8	0.35	40	7	7	2.5	2.1	5	2
P2021005-M2	P20210-M2	M 2	0.4	45	6	9	2.8	2.1	5	2
	P20210-M2.2	M 2.2	0.45	45	7	12	2.8	2.1	5	2
	P20210-M2.3	M 2.3	0.4	45	7	12	2.8	2.1	5	2
P2021005-M2.5	P20210-M2.5	M 2.5	0.45	50	8	12.5	2.8	2.1	5	2
	P20210-M2.6	M 2.6	0.45	50	8	12.5	2.8	2.1	5	2
P2021005-M3	P20210-M3	M 3	0.5	56	9	18	3.5	2.7	6	2
P2021005-M3.5	P20210-M3.5	M 3.5	0.6	56	11	20	4	3	6	2
P2021005-M4	P20210-M4	M 4	0.7	63	12	21	4.5	3.4	6	2
	P20210-M4.5	M 4.5	0.75	70	13	25	6	4.9	8	2
P2021005-M5	P20210-M5	M 5	0.8	70	13	25	6	4.9	8	2
P2021005-M6	P20210-M6	M 6	1	80	15	30	6	4.9	8	2

- ≤ M 1.4: 5H
- ≤ M 1.8: Without reduced neck after the thread
- ≤ M 1.6: Without reduced neck after the thread

WALTER
SELECT

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Prototex® X-pert P

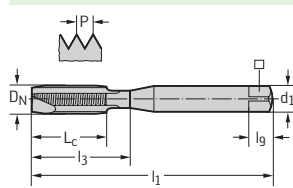


– For long-chipping materials



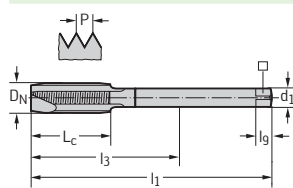
	P	M	K	N	S	H	O
uncoated	●●	●	●	●	●	●	●

DIN 371



Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
P202108-M2	M 2	0.4	45	6	9	2.8	2.1	5	2
P202108-M3	M 3	0.5	56	9	18	3.5	2.7	6	2
P202108-M4	M 4	0.7	63	12	21	4.5	3.4	6	2
P202108-M5	M 5	0.8	70	13	25	6	4.9	8	2
P202108-M6	M 6	1	80	15	30	6	4.9	8	3
P202108-M8	M 8	1.25	90	18	35	8	6.2	9	3
P202108-M10	M 10	1.5	100	20	39	10	8	11	3

DIN 376



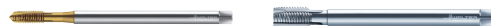
Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
P202608-M12	M 12	1.75	110	23	83	9	7	10	3
P202608-M16	M 16	2	110	25	68	12	9	12	3
P202608-M20	M 20	2.5	140	30	95	16	12	15	3

**WALTER
SELECT**

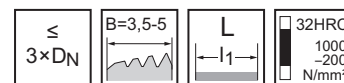
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Prototex® X-pert P



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●	●	●	●	●	●
TIN	●●	●	●	●	●	●	●

~DIN 371 L	Designation TIN	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	P2031035-M3	P203103-M3	M 3	0.5	112	9	18	3.5	2.7	6	3
	P2031035-M4	P203103-M4	M 4	0.7	112	12	21	4.5	3.4	6	3
	P2031035-M5	P203103-M5	M 5	0.8	125	13	25	6	4.9	8	3
	P2031035-M6	P203103-M6	M 6	1	125	15	30	6	4.9	8	3
	P2031035-M8	P203103-M8	M 8	1.25	140	18	40	8	6.2	9	3
	P2031035-M10	P203103-M10	M 10	1.5	160	20	50	10	8	11	3

~DIN 376 L	Designation TIN	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
		P203603-M3	M 3	0.5	112	9	86	2.2	1.8	4	3
		P203603-M4	M 4	0.7	112	12	92	2.8	2.1	5	3
	P2036035-M5	P203603-M5	M 5	0.8	125	13	104	3.5	2.7	6	3
	P2036035-M6	P203603-M6	M 6	1	125	15	104	4.5	3.4	6	3
	P2036035-M8	P203603-M8	M 8	1.25	140	18	117	6	4.9	8	3
	P2036035-M10	P203603-M10	M 10	1.5	160	20	137	7	5.5	8	3
	P2036035-M12	P203603-M12	M 12	1.75	180	23	153	9	7	10	3
	P2036035-M14	P203603-M14	M 14	2	180	25	151	11	9	12	3
	P2036035-M16	P203603-M16	M 16	2	200	25	158	12	9	12	3
	P2036035-M20	P203603-M20	M 20	2.5	224	30	179	16	12	15	4

WALTER
SELECT

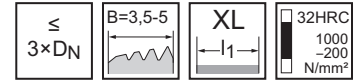
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

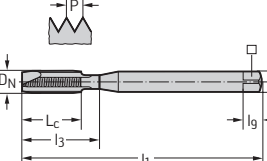
Prototex® X-pert P



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●	●	●	●	●	●

~DIN 371 XL										
	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	P202103-M4	M 4	0.7	125	12	21	4,5	3.4	6	3
	P202103-M5	M 5	0.8	140	13	25	6	4.9	8	3
	P202103-M6	M 6	1	160	15	30	6	4.9	8	3

~DIN 376 L

Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
P202603-M8	M 8	1.25	180	18	157	6	4.9	8	3
P202603-M10	M 10	1.5	200	20	177	7	5.5	8	3
P202603-M12	M 12	1.75	220	23	193	9	7	10	3
P202603-M14	M 14	2	220	25	191	11	9	12	3
P202603-M16	M 16	2	220	25	178	12	9	12	3
P202603-M20	M 20	2.5	280	30	235	16	12	15	4

C1

**WALTER
SELECT**

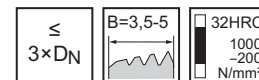
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine taps

Prototex® X-pert P AZ

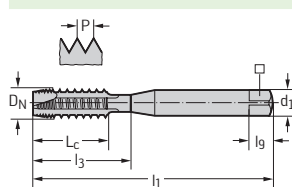


- For long-chipping materials
- For thin-walled workpieces



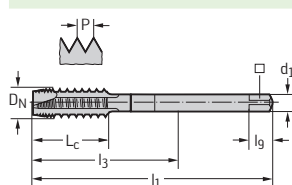
	P	M	K	N	S	H	O
uncoated	●●	●●	●●	●●	●●	●●	●●

DIN 371



Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
P40310-M3	M 3	0.5	56	9	18	3.5	2.7	6	3
P40310-M4	M 4	0.7	63	12	21	4.5	3.4	6	3
P40310-M5	M 5	0.8	70	13	25	6	4.9	8	3
P40310-M6	M 6	1	80	15	30	6	4.9	8	3
P40310-M8	M 8	1.25	90	18	35	8	6.2	9	3
P40310-M10	M 10	1.5	100	20	39	10	8	11	3

DIN 376



Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
P40360-M12	M 12	1.75	110	23	83	9	7	10	3
P40360-M14	M 14	2	110	25	81	11	9	12	3
P40360-M16	M 16	2	110	25	68	12	9	12	3
P40360-M20	M 20	2.5	140	30	95	16	12	15	4

WALTER
SELECT

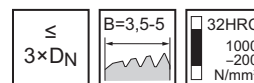
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Prototex® X-pert P

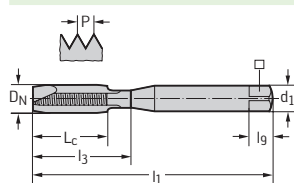


– For long-chipping materials



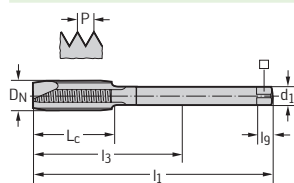
	P	M	K	N	S	H	O
uncoated	●●			●			●
TIN	●●			●			●

DIN 371



Designation TIN	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	P20330-M2.5	M 2.5	0.45	50	8	12.5	2.8	2.1	5	3
	P20330-M3	M 3	0.5	56	9	18	3.5	2.7	6	3
	P20330-M3.5	M 3.5	0.6	56	11	20	4	3	6	3
	P20330-M4	M 4	0.7	63	12	21	4.5	3.4	6	3
	P20330-M5	M 5	0.8	70	13	25	6	4.9	8	3
P2033005-M6	P20330-M6	M 6	1	80	15	30	6	4.9	8	3
	P20330-M7	M 7	1	80	15	30	7	5.5	8	3
P2033005-M8	P20330-M8	M 8	1.25	90	18	35	8	6.2	9	3
P2033005-M10	P20330-M10	M 10	1.5	100	20	39	10	8	11	3

DIN 376



Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
P20380-M5	M 5	0.8	70	13	49	3.5	2.7	6	3
P20380-M6	M 6	1	80	15	59	4.5	3.4	6	3
P20380-M8	M 8	1.25	90	18	67	6	4.9	8	3
P20380-M10	M 10	1.5	100	20	77	7	5.5	8	3
P20380-M12	M 12	1.75	110	23	83	9	7	10	3
P20380-M14	M 14	2	110	25	81	11	9	12	3
P20380-M16	M 16	2	110	25	68	12	9	12	3
P20380-M20	M 20	2.5	140	30	95	16	12	15	4
P20380-M24	M 24	3	160	36	113	18	14.5	17	4

**WALTER
SELECT**

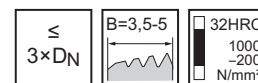
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Prototex® X-pert P



- Reduced number of flutes
- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●			●			●
TIN	●●			●			●

DIN 371	Designation TIN	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	P2023005-M2	P20230-M2	M 2	0.4	45	6	9	2.8	2.1	5	2
		P20230-M2.3	M 2.3	0.4	45	7	12	2.8	2.1	5	2
	P2023005-M2.5	P20230-M2.5	M 2.5	0.45	50	8	12.5	2.8	2.1	5	2
		P20230-M2.6	M 2.6	0.45	50	8	12.5	2.8	2.1	5	2
	P2023005-M3	P20230-M3	M 3	0.5	56	9	18	3.5	2.7	6	2
	P2023005-M3.5	P20230-M3.5	M 3.5	0.6	56	11	20	4	3	6	2
	P2023005-M4	P20230-M4	M 4	0.7	63	12	21	4.5	3.4	6	2
	P2023005-M5	P20230-M5	M 5	0.8	70	13	25	6	4.9	8	2

C1

WALTER
SELECT

●● Primary application ● Other application

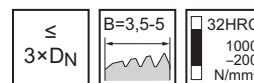
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Prototex® X-pert P

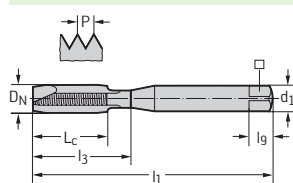


– For long-chipping materials



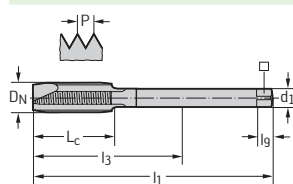
	P	M	K	N	S	H	O
uncoated	●●			●			●
TIN	●●			●			●

DIN 371



Designation TIN	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
P2034005-M2	P20340-M2	M 2	0.4	45	6	11	2.8	2.1	5	3
P2034005-M2.5	P20340-M2.5	M 2.5	0.45	50	8	12.5	2.8	2.1	5	3
	P20340-M2.6	M 2.6	0.45	50	8	14	2.8	2.1	5	3
P2034005-M3	P20340-M3	M 3	0.5	56	9	18	3.5	2.7	6	3
P2034005-M3.5	P20340-M3.5	M 3.5	0.6	56	11	20	4	3	6	3
P2034005-M4	P20340-M4	M 4	0.7	63	12	21	4.5	3.4	6	3
P2034005-M5	P20340-M5	M 5	0.8	70	13	25	6	4.9	8	3
P2034005-M6	P20340-M6	M 6	1	80	15	30	6	4.9	8	3
P2034005-M8	P20340-M8	M 8	1.25	90	18	35	8	6.2	9	3
P2034005-M10	P20340-M10	M 10	1.5	100	20	39	10	8	11	3

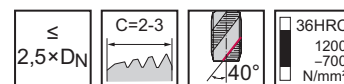
DIN 376



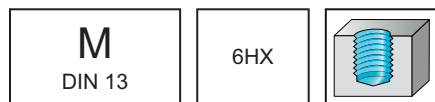
Designation TIN	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
P2039005-M12	P20390-M12	M 12	1.75	110	23	83	9	7	10	3
P2039005-M16	P20390-M16	M 16	2	110	25	68	12	9	12	3
P2039005-M20	P20390-M20	M 20	2.5	140	30	95	16	12	15	4

**WALTER
SELECT**

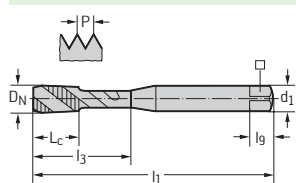
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions



- For long-chipping materials

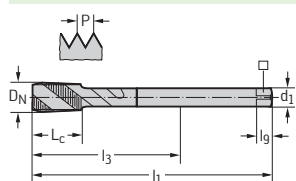


	P	M	K	N	S	H	O
VAP	●	●●					
TIN	●	●●					
TICN	●	●●					



Designation TICN	Designation TIN	Designation VAP	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h ₉ mm		l ₉ mm	N
		M20513-M1.6	M 1.6	0.35	40	6	6	2.5	2.1	5	3
		M20513-M1.7	M 1.7	0.35	40	6	6	2.5	2.1	5	3
		M20513-M1.8	M 1.8	0.35	40	6	6	2.5	2.1	5	3
M2051306-M2	M2051305-M2	M20513-M2	M 2	0.4	45	4	9	2.8	2.1	5	3
M2051306-M2.5	M2051305-M2.5	M20513-M2.5	M 2.5	0.45	50	4	12.5	2.8	2.1	5	3
M2051306-M3	M2051305-M3	M20513-M3	M 3	0.5	56	6	18	3.5	2.7	6	3
		M20513-M3.5	M 3.5	0.6	56	6.5	20	4	3	6	3
M2051306-M4	M2051305-M4	M20513-M4	M 4	0.7	63	7	21	4.5	3.4	6	3
		M20513-M4.5	M 4.5	0.75	70	8	25	6	4.9	8	3
M2051306-M5	M2051305-M5	M20513-M5	M 5	0.8	70	8	25	6	4.9	8	3
M2051306-M6	M2051305-M6	M20513-M6	M 6	1	80	10	30	6	4.9	8	3
		M20513-M7	M 7	1	80	10	30	7	5.5	8	3
M2051306-M8	M2051305-M8	M20513-M8	M 8	1.25	90	12	35	8	6.2	9	3
M2051306-M10	M2051305-M10	M20513-M10	M 10	1.5	100	15	39	10	8	11	3

l₉ dimensions in accordance with DIN 10



Designation TICN	Designation TIN	Designation VAP	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
M2056306-M6		M20563-M6	M 6	1	80	10	59	4.5	3.4	6	3
M2056306-M8		M20563-M8	M 8	1.25	90	12	67	6	4.9	8	3
M2056306-M10		M20563-M10	M 10	1.5	100	15	77	7	5.5	8	3
M2056306-M12	M2056305-M12	M20563-M12	M 12	1.75	110	16	83	9	7	10	4
		M20563-M14	M 14	2	110	20	81	11	9	12	4
M2056306-M16	M2056305-M16	M20563-M16	M 16	2	110	20	68	12	9	12	4
		M20563-M18	M 18	2.5	125	25	81	14	11	14	4
M2056306-M20	M2056305-M20	M20563-M20	M 20	2.5	140	25	95	16	12	15	4
		M20563-M22	M 22	2.5	140	25	93	18	14.5	17	4
M2056306-M24		M20563-M24	M 24	3	160	30	113	18	14.5	17	4
		M20563-M27	M 27	3	160	30	97	20	16	19	5
M2056306-M30		M20563-M30	M 30	3.5	180	35	115	22	18	21	5
		M20563-M33	M 33	3.5	180	35	113	25	20	23	5
		M20563-M36	M 36	4	200	40	131	28	22	25	5
		M20563-M42	M 42	4.5	200	45	102	32	24	27	5

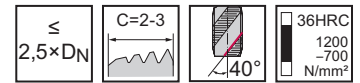
l_q dimensions in accordance with DIN 10

HSS-E machine taps

Paradur® X-pert M

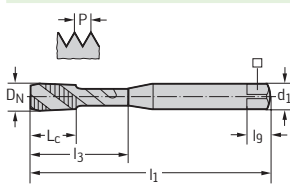


– For long-chipping materials



	P	M	K	N	S	H	O
VAP	●	●●					
TICN	●	●●					

DIN 371



Designation TICN	Designation VAP	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
M2053306-M3	M20533-M3	M 3	0,5	56	6	18	3,5	2,7	6	3
M2053306-M4	M20533-M4	M 4	0,7	63	7	21	4,5	3,4	6	3
M2053306-M5	M20533-M5	M 5	0,8	70	8	25	6	4,9	8	3
M2053306-M6	M20533-M6	M 6	1	80	10	30	6	4,9	8	3
M2053306-M8	M20533-M8	M 8	1,25	90	12	35	8	6,2	9	3
M2053306-M10	M20533-M10	M 10	1,5	100	15	39	10	8	11	3

C1

**WALTER
SELECT**

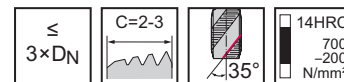
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine taps

Paradur® X-pert N

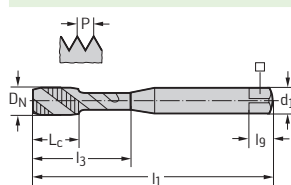


– For long-chipping materials



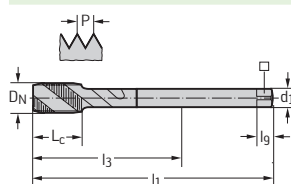
	P	M	K	N	S	H	O
uncoated				●●	●		●

DIN 371



Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
N20516-M1.6	M 1.6	0.35	40	6	6	2.5	2.1	5	2
N20516-M2	M 2	0.4	45	4	9	2.8	2.1	5	2
N20516-M2.3	M 2.3	0.4	45	4	12	2.8	2.1	5	2
N20516-M2.5	M 2.5	0.45	50	4	12.5	2.8	2.1	5	2
N20516-M3	M 3	0.5	56	6	18	3.5	2.7	6	2
N20516-M3.5	M 3.5	0.6	56	6.5	20	4	3	6	2
N20516-M4	M 4	0.7	63	7	21	4.5	3.4	6	2
N20516-M5	M 5	0.8	70	8	25	6	4.9	8	2
N20516-M6	M 6	1	80	10	30	6	4.9	8	2
N20516-M8	M 8	1.25	90	12	35	8	6.2	9	2
N20516-M10	M 10	1.5	100	15	39	10	8	11	2

DIN 376



Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
N20566-M6	M 6	1	80	10	59	4.5	3.4	6	2
N20566-M8	M 8	1.25	90	12	67	6	4.9	8	2
N20566-M10	M 10	1.5	100	15	77	7	5.5	8	2
N20566-M12	M 12	1.75	110	16	83	9	7	10	3
N20566-M14	M 14	2	110	20	81	11	9	12	3
N20566-M16	M 16	2	110	20	68	12	9	12	3
N20566-M20	M 20	2.5	140	25	95	16	12	15	3

WALTER
SELECT

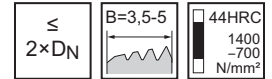
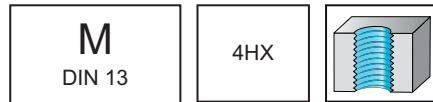
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Prototex® TiNi



- Recommended with oil
- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●●	●●	●●	●●	●●	●●

~DIN 371

Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
202061-M2	M 2	0.4	45	8	8	2.8	2.1	5	2
202061-M2.5	M 2.5	0.45	50	9	9	2.8	2.1	5	2
202061-M3	M 3	0.5	56	10	10	3.5	2.7	6	2
202061-M3.5	M 3.5	0.6	56	12	12	4	3	6	3
202061-M4	M 4	0.7	63	13	13	4.5	3.4	6	3
202061-M5	M 5	0.8	70	16	16	6	4.9	8	3
202061-M6	M 6	1	80	15	23	6	4.9	8	3
202061-M8	M 8	1.25	90	18	29.5	8	6.2	9	3
202061-M10	M 10	1.5	100	20	33.5	10	8	11	3

C1

**WALTER
SELECT**

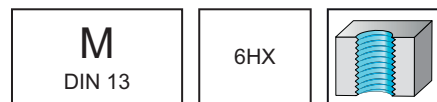
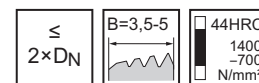
●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E PM machine taps

Prototex® TiNi



- Recommended with oil
- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●●	●●	●●	●●	●●	●●
TiCN	●●	●●	●●	●●	●●	●●	●●

~DIN 371

Technical drawing of a tap with dimensions: D_N , P , L_c , l_3 , l_1 , d_1 , l_9 .

Designation TiCN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm		l_9 mm	N
	202161-M1	M 1	0.25	40	5	5	2.5	2.1	5	2
	202161-M1.2	M 1.2	0.25	40	5	5	2.5	2.1	5	2
	202161-M1.4	M 1.4	0.3	40	5	5	2.5	2.1	5	2
	202161-M1.6	M 1.6	0.35	40	5	5	2.5	2.1	5	2
	202161-M1.8	M 1.8	0.35	40	5	5	2.5	2.1	5	2
2021616-M2	202161-M2	M 2	0.4	45	8	8	2.8	2.1	5	2
	202161-M2.2	M 2.2	0.45	45	8	8	2.8	2.1	5	2
2021616-M2.5	202161-M2.5	M 2.5	0.45	50	9	9	2.8	2.1	5	2
2021616-M3	202161-M3	M 3	0.5	56	10	10	3.5	2.7	6	2
2021616-M3.5	202161-M3.5	M 3.5	0.6	56	12	12	4	3	6	3
2021616-M4	202161-M4	M 4	0.7	63	13	13	4.5	3.4	6	3
	202161-M4.5	M 4.5	0.75	70	13	13	6	4.9	8	3
2021616-M5	202161-M5	M 5	0.8	70	16	16	6	4.9	8	3
2021616-M6	202161-M6	M 6	1	80	15	23	6	4.9	8	3
2021616-M8	202161-M8	M 8	1.25	90	18	29.5	8	6.2	9	3
2021616-M10	202161-M10	M 10	1.5	100	20	33.5	10	8	11	3

≤ M 1.4: 5HX

DIN 376	Designation TiCN	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	2026616-M12	202661-M12	M 12	1.75	110	23	83	9	7	10	4
	2026616-M14	202661-M14	M 14	2	110	25	81	11	9	12	4
	2026616-M16	202661-M16	M 16	2	110	25	68	12	9	12	4
	2026616-M20	202661-M20	M 20	2.5	140	30	95	16	12	15	4
	2026616-M24	202661-M24	M 24	3	160	36	113	18	14.5	17	4

WALTER
SELECT

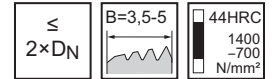
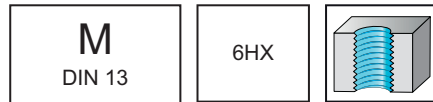
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Prototex® TiNi Plus



- Recommended with emulsion
- For long-chipping materials



	P	M	K	N	S	H	O
ACN					●●		

~DIN 371										
	Designation ACN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	2021763-M2	M 2	0.4	45	8	8	2.8	2.1	5	2
	2021763-M2.5	M 2.5	0.45	50	9	9	2.8	2.1	5	2
	2021763-M3	M 3	0.5	56	10	10	3.5	2.7	6	2
	2021763-M3.5	M 3.5	0.6	56	12	12	4	3	6	3
	2021763-M4	M 4	0.7	63	13	13	4.5	3.4	6	3
	2021763-M5	M 5	0.8	70	16	16	6	4.9	8	3
	2021763-M6	M 6	1	80	15	23	6	4.9	8	3
	2021763-M8	M 8	1.25	90	18	29.5	8	6.2	9	3
	2021763-M10	M 10	1.5	100	20	33.5	10	8	11	3
DIN 376										
	Designation ACN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	2026763-M12	M 12	1.75	110	23	83	9	7	10	4
	2026763-M16	M 16	2	110	25	68	12	9	12	4
	2026763-M20	M 20	2.5	140	30	95	16	12	15	4

C1

**WALTER
SELECT**

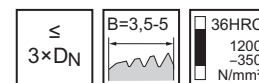
●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Prototex® Sprint



– For long-chipping materials



	P	M	K	N	S	H	O
TIN	●	●	●	●	●	●	●
TICN	●	●	●	●	●	●	●

DIN 371	Designation TIN	Designation TIN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	7021366-M3	7021365-M3	M 3	0.5	56	9	18	3.5	2.7	6	3
	7021366-M4	7021365-M4	M 4	0.7	63	12	21	4.5	3.4	6	3
	7021366-M5	7021365-M5	M 5	0.8	70	13	25	6	4.9	8	3
	7021366-M6	7021365-M6	M 6	1	80	15	30	6	4.9	8	3
	7021366-M8	7021365-M8	M 8	1.25	90	18	35	8	6.2	9	3
	7021366-M10	7021365-M10	M 10	1.5	100	20	39	10	8	11	3

DIN 376	Designation TIN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	7026365-M12	M 12	1.75	110	23	83	9	7	10	3
	7026365-M14	M 14	2	110	25	81	11	9	12	3
	7026365-M16	M 16	2	110	25	68	12	9	12	3
	7026365-M20	M 20	2.5	140	30	95	16	12	15	3

WALTER
SELECT

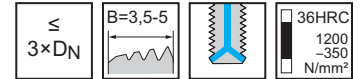
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Prototex® Megasprint



– For long-chipping materials



	P	M	K	N	S	H	O
TIN	●	●	●	●	●	●	●

DIN 371	Designation TIN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	7021345-M6	M 6	1	80	15	30	6	4.9	8	3
	7021345-M8	M 8	1.25	90	18	35	8	6.2	9	3
	7021345-M10	M 10	1.5	100	20	39	10	8	11	3

DIN 376	Designation TIN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	7026345-M12	M 12	1.75	110	23	83	9	7	10	3
	7026345-M16	M 16	2	110	25	68	12	9	12	3
	7026345-M20	M 20	2.5	140	30	95	16	12	15	3

C1

**WALTER
SELECT**

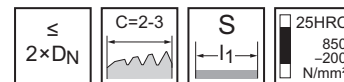
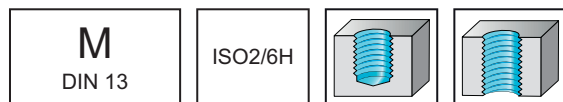
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS hand-held tap set

HGB

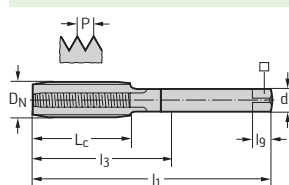


– For long- and short-chipping materials



	P	M	K	N	S	H	O
uncoated	●	●	●	●	●	●	●

DIN 352



Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
30060-M2	M 2	0.4	36	8	8	2.8	2.1	5	3
30060-M2.5	M 2.5	0.45	40	9	9	2.8	2.1	5	3
30060-M3	M 3	0.5	40	9	13.5	3.5	2.7	6	3
30060-M4	M 4	0.7	45	11	16.5	4.5	3.4	6	3
30060-M5	M 5	0.8	50	13	19	6	4.9	8	3
30060-M6	M 6	1	56	15	27	6	4.9	8	3
30060-M8	M 8	1.25	63	19	40	6	4.9	8	3
30060-M10	M 10	1.5	70	22	47	7	5.5	8	3
30060-M12	M 12	1.75	75	25	48	9	7	10	4
30060-M16	M 16	2	80	25	38	12	9	12	4
30060-M20	M 20	2.5	95	32	50	16	12	15	4
30060-M24	M 24	3	110	34	63	18	14.5	17	4
30060-M30	M 30	3.5	125	40	60	22	18	21	4

Ordering code includes initial, intermediate and final cutter.
≤ M 2.5: Without reduced neck after the thread

**WALTER
SELECT**

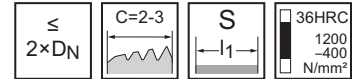
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E hand-held tap set

HGB Inox

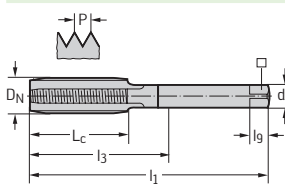


– For long-chipping materials



	P	M	K	N	S	H	O
VAP	●	●					

DIN 352



Designation VAP	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
30063-M2	M 2	0.4	36	8	7	2.8	2.1	5	3
30063-M2.5	M 2.5	0.45	40	9	7.9	2.8	2.1	5	3
30063-M3	M 3	0.5	40	9	7.8	3.5	2.7	6	3
30063-M4	M 4	0.7	45	11	9.3	4.5	3.4	6	3
30063-M5	M 5	0.8	50	13	11	6	4.9	8	3
30063-M6	M 6	1	56	15	12.5	6	4.9	8	3
30063-M8	M 8	1.25	63	19	15.9	6	4.9	8	3
30063-M10	M 10	1.5	70	22	18.3	7	5.5	8	4
30063-M12	M 12	1.75	75	25	20.6	9	7	10	4
30063-M16	M 16	2	80	25	20	12	9	12	4
30063-M20	M 20	2.5	95	32	25.8	16	12	15	4
30063-M24	M 24	3	110	34	26.5	18	14.5	17	4
30063-M30	M 30	3.5	125	40	31.3	22	18	21	4

Ordering code includes initial, intermediate and final cutter.
 ≤ M 2.5: Without reduced neck after the thread

C1

**WALTER
SELECT**

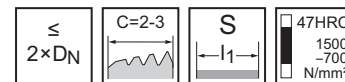
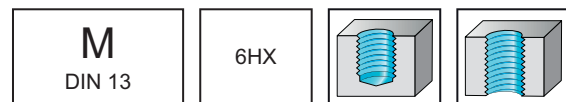
●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E hand-held tap set

HGB Ti

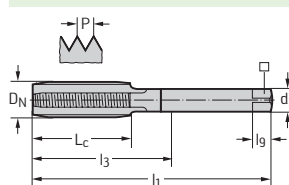


– For long-chipping materials



	P	M	K	N	S	H	O
NID					●		

DIN 352



Designation NID	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
30016-M3	M 3	0.5	40	9	7.8	3.5	2.7	6	3
30016-M4	M 4	0.7	45	11	9.3	4.5	3.4	6	3
30016-M5	M 5	0.8	50	13	11	6	4.9	8	3
30016-M6	M 6	1	56	15	12.5	6	4.9	8	3
30016-M8	M 8	1.25	63	19	15.9	6	4.9	8	4
30016-M10	M 10	1.5	70	22	18.3	7	5.5	8	4
30016-M12	M 12	1.75	75	25	20.6	9	7	10	4

Ordering code includes initial, intermediate and final cutter.
NID = Nidamised (NID+VAP)

C1

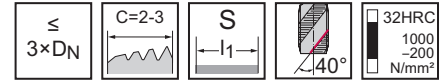
**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E taps, short KMB WST

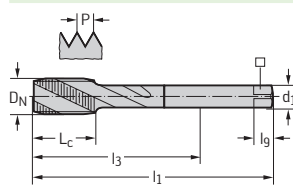


– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●		●	●			

DIN 2184-2



Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
20167-M3	M 3	0.5	40	6	13.5	3.5	2.7	6	3
20167-M4	M 4	0.7	45	7	16.5	4.5	3.4	6	3
20167-M5	M 5	0.8	50	8	19	6	4.9	8	3
20167-M6	M 6	1	56	10	27	6	4.9	8	3
20167-M8	M 8	1.25	63	12	40	6	4.9	8	3
20167-M10	M 10	1.5	70	15	47	7	5.5	8	3
20167-M12	M 12	1.75	75	16	48	9	7	10	3

C1

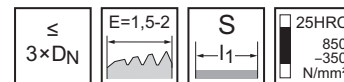
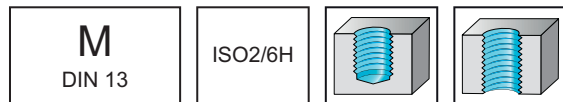
**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E taps, short KMB Ms



– For short-chipping materials



	P	M	K	N	S	H	O
uncoated				●●			●

DIN 2184-2										
Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N	
20165-M2	M 2	0.4	36	8	8	2.8	2.1	5	3	
20165-M2.5	M 2.5	0.45	40	9	9	2.8	2.1	5	3	
20165-M3	M 3	0.5	40	9	13.5	3.5	2.7	6	3	
20165-M3.5	M 3.5	0.6	45	10	15	4	3	6	3	
20165-M4	M 4	0.7	45	11	16.5	4.5	3.4	6	3	
20165-M5	M 5	0.8	50	13	19	6	4.9	8	3	
20165-M6	M 6	1	56	15	27	6	4.9	8	3	
20165-M8	M 8	1.25	63	19	40	6	4.9	8	3	

≤ M 2.5: Without reduced neck after the thread

C1

WALTER
SELECT

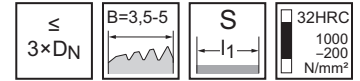
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E taps, short

KMB H

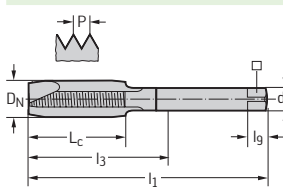


– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●	●●	●●	●	●	●

DIN 2184-2



Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
20160-M3	M 3	0.5	40	9	13.5	3.5	2.7	6	3
20160-M4	M 4	0.7	45	11	16.5	4.5	3.4	6	3
20160-M5	M 5	0.8	50	13	19	6	4.9	8	3
20160-M6	M 6	1	56	15	27	6	4.9	8	3
20160-M8	M 8	1.25	63	19	40	6	4.9	8	3
20160-M10	M 10	1.5	70	22	47	7	5.5	8	3
20160-M12	M 12	1.75	75	25	48	9	7	10	3

C1

**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E nut taps

MMB

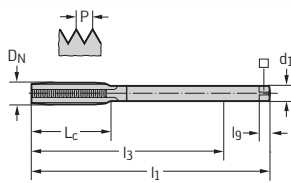


– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●						

DIN 357										
Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h12 mm	□	l _g mm	N	
20890-M2	M 2	0.4	66	16	47	1.4	1.1	4	3	
20890-M2.5	M 2.5	0.45	70	20	51	1.7	1.3	4	3	
20890-M3	M 3	0.5	70	22	51	2.2	1.8	4	3	
20890-M4	M 4	0.7	90	25	70	2.8	2.1	5	3	
20890-M5	M 5	0.8	100	28	79	3.5	2.7	6	3	
20890-M6	M 6	1	110	32	89	4.5	3.4	6	3	
20890-M8	M 8	1.25	125	40	102	6	4.9	8	3	
20890-M10	M 10	1.5	140	45	117	7	5.5	8	3	
20890-M12	M 12	1.75	180	50	153	9	7	10	3	
20890-M16	M 16	2	200	63	158	12	9	12	3	



Cylindrical shank

C1

WALTER
SELECT

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E automatic taps
AMB



– For long-chipping materials

M
DIN 13

7G

≤
1×D_N

18×P

28HRC
900
~200
N/mm²

TIN

P

M

K

N

S

H

O

●●

AMB-NORM							
	Designation TIN	D _N	P mm	l ₁ mm	L _c mm	d ₁ h12 mm	N
	2084805-M5	M 5	0.8	271	19	3.9	5
	2084805-M6	M 6	1	271	24	4.6	5
	2084805-M8	M 8	1.25	271	30	6.1	5
	2084805-M10	M 10	1.5	271	36	8	5
Cylindrical shank							
MAS 14. T-STAR 10							

WALTER
SELECT

●● Primary application ● Other application

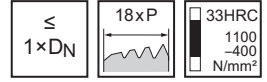
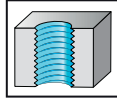
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E automatic taps

AMB Inox



– For long-chipping materials



	P	M	K	N	S	H	O
NID		●●					

AMB-NORM	Designation NID	D _N	P mm	l ₁ mm	L _c mm	d ₁ h12 mm	N
	20844-M6	M 6	1	271	24	4.6	5
	20844-M8	M 8	1.25	271	30	6.1	5
	20844-M10	M 10	1.5	271	36	8	5
	20844-M12	M 12	1.75	271	42	9.4	5

Cylindrical shank

MAS 14. T-STAR 10.

NID = Nidamised (NIT+VAP)

C1

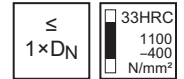
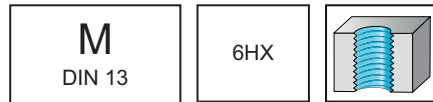
WALTER
SELECT

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E stepped AMB Protostep Inox



- For long-chipping materials
- Three-stage



	P	M	K	N	S	H	O
VAP		●●					

AMB-NORM	Designation VAP	d ₁ h12 mm	l ₁ mm	N	D _N	L _c mm	P mm
	20944-M5	3.9	271		M 5	19	0.8
	20944-M6	4.6	271		M 6	24	1
	20944-M8	6.1	271		M 8	30	1.25
	20944-M10	8	271		M 10	36	1.5
	20944-M12	9.4	271		M 12	42	1.75
Cylindrical shank							

MAS 14. T-STAR 10

AMB-NORM	Designation VAP	d ₁ h12 mm	l ₁ mm	N	D _N	L _c mm	P mm
	20954-M14	11.1	435		M 14	48	2
	20954-M16	13.2	435		M 16	48	2
Cylindrical shank							

MAS 20. T-STAR 20

C1

**WALTER
SELECT**

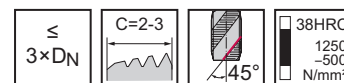
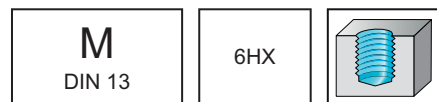
●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® Eco Plus



– For long-chipping materials



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●	●●	●●	●●
TIN	●●	●●	●●	●●	●●	●●	●●

~DIN 371	Designation THL	Designation TIN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	EP2051302-M2	EP2051305-M2	M 2	0.4	45	4	7.6	2.8	2.1	5	3
	EP2051302-M2.5	EP2051305-M2.5	M 2.5	0.45	50	4	9.3	2.8	2.1	5	3
	EP2051302-M3	EP2051305-M3	M 3	0.5	56	6	11	3.5	2.7	6	3
	EP2051302-M4	EP2051305-M4	M 4	0.7	63	7	14.8	4.5	3.4	6	3
	EP2051302-M5	EP2051305-M5	M 5	0.8	70	8	20.7	6	4.9	8	3
	EP2051302-M6	EP2051305-M6	M 6	1	80	10	25	6	4.9	8	3
	EP2051302-M8	EP2051305-M8	M 8	1.25	90	12	35	8	6.2	9	3
	EP2051302-M10	EP2051305-M10	M 10	1.5	100	15	39	10	8	11	3

DIN 376	Designation THL	Designation TIN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	EP2056302-M12	EP2056305-M12	M 12	1.75	110	16	83	9	7	10	4
	EP2056302-M14	EP2056305-M14	M 14	2	110	20	81	11	9	12	4
	EP2056302-M16	EP2056305-M16	M 16	2	110	20	68	12	9	12	4
	EP2056302-M18	EP2056305-M18	M 18	2.5	125	25	81	14	11	14	4
	EP2056302-M20	EP2056305-M20	M 20	2.5	140	25	95	16	12	15	4
	EP2056302-M24	EP2056305-M24	M 24	3	160	30	113	18	14.5	17	4
	EP2056302-M27		M 27	3	160	30	97	20	16	19	4
	EP2056302-M30		M 30	3.5	180	35	115	22	18	21	4
	EP2056302-M36		M 36	4	200	40	131	28	22	25	4
	EP2056302-M42		M 42	4.5	200	45	102	32	24	27	5
	EP2056302-M48		M 48	5	250	50	147	36	29	32	5
	EP2056302-M56		M 56	5.5	250	55	120	40	32	35	5
	EP2056302-M64		M 64	6	315	60	178	50	39	42	6

WALTER
SELECT

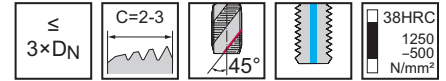
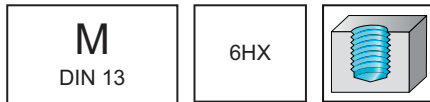
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

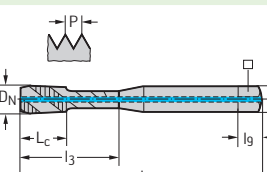
Paradur® Eco Plus



– For long-chipping materials



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			

~DIN 371										
	Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
	EP2051312-M4	M 4	0.7	63	7	14.8	4,5	3.4	6	3
	EP2051312-M5	M 5	0.8	70	8	20.7	6	4.9	8	3
	EP2051312-M6	M 6	1	80	10	25	6	4.9	8	3
	EP2051312-M8	M 8	1.25	90	12	35	8	6.2	9	3
	EP2051312-M10	M 10	1.5	100	15	39	10	8	11	3

DIN 376

Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
EP2056312-M12	M 12	1.75	110	16	83	9	7	10	4
EP2056312-M16	M 16	2	110	20	68	12	9	12	4
EP2056312-M20	M 20	2.5	140	25	95	16	12	15	4
EP2056312-M24	M 24	3	160	30	113	18	14.5	17	4

C1

**WALTER
SELECT**

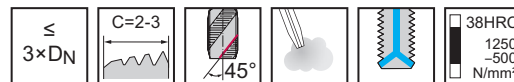
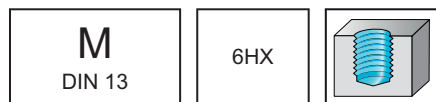
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® Eco Plus

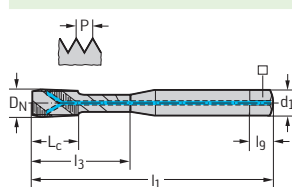


– For long-chipping materials



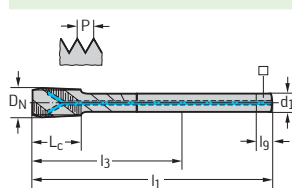
	P	M	K	N	S	H	O
THL	●●	●●	●●	●●	●●	●●	●●

DIN 371



Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
EP2051342-M8	M 8	1.25	90	12	35	8	6.2	9	3
EP2051342-M10	M 10	1.5	100	15	39	10	8	11	3

DIN 376



Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
EP2056342-M12	M 12	1.75	110	16	83	9	7	10	4
EP2056342-M16	M 16	2	110	20	68	12	9	12	4

WALTER
SELECT

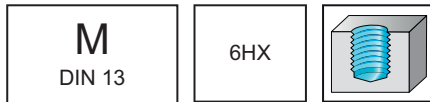
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® Eco Plus



– For long-chipping materials



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			

~DIN 371

Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
EP2051382-M3	M 3	0.5	56	6	11	3.5	2.7	6	3
EP2051382-M4	M 4	0.7	63	7	14.8	4.5	3.4	6	3
EP2051382-M5	M 5	0.8	70	8	20.7	6	4.9	8	3
EP2051382-M6	M 6	1	80	10	25	6	4.9	8	3
EP2051382-M8	M 8	1.25	90	12	35	8	6.2	9	3
EP2051382-M10	M 10	1.5	100	15	39	10	8	11	3

DIN 376

Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
EP2056382-M12	M 12	1.75	110	16	83	9	7	10	4
EP2056382-M14	M 14	2	110	20	81	11	9	12	4
EP2056382-M16	M 16	2	110	20	68	12	9	12	4
EP2056382-M18	M 18	2.5	125	25	81	14	11	14	4
EP2056382-M20	M 20	2.5	140	25	95	16	12	15	4

C1

**WALTER
SELECT**

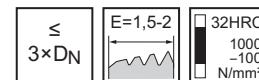
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® Eco C1

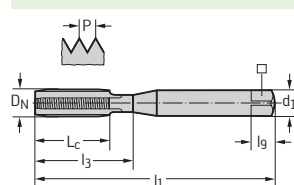


– For short-chipping materials



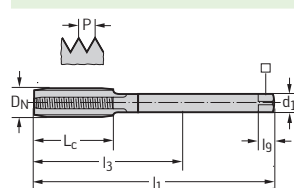
	P	M	K	N	S	H	O
TICN			●●	●●			●●

DIN 371



Designation TICN	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
E2031466-M4	M 4	0.7	63	12	21	4.5	3.4	6	3
E2031466-M5	M 5	0.8	70	13	25	6	4.9	8	4
E2031466-M6	M 6	1	80	15	30	6	4.9	8	4
E2031466-M8	M 8	1.25	90	18	35	8	6.2	9	4
E2031466-M10	M 10	1.5	100	20	39	10	8	11	4

DIN 376



Designation TICN	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
E2036466-M12	M 12	1.75	110	23	83	9	7	10	4
E2036466-M16	M 16	2	110	25	68	12	9	12	4
E2036466-M20	M 20	2.5	140	30	95	16	12	15	4
E2036466-M24	M 24	3	160	36	113	18	14.5	17	5

**WALTER
SELECT**

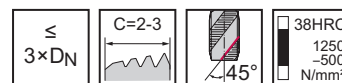
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® Eco Plus



– For long-chipping materials



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			
TIN	●●	●●	●●	●●			

~DIN 371	Designation THL	Designation TIN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	EP2053302-M2	EP2053305-M2	M 2	0.4	45	4	7.6	2.8	2.1	5	3
	EP2053302-M2.5	EP2053305-M2.5	M 2.5	0.45	50	4	9.3	2.8	2.1	5	3
	EP2053302-M3	EP2053305-M3	M 3	0.5	56	6	11	3.5	2.7	6	3
	EP2053302-M4	EP2053305-M4	M 4	0.7	63	7	14.8	4.5	3.4	6	3
	EP2053302-M5	EP2053305-M5	M 5	0.8	70	8	20.7	6	4.9	8	3
	EP2053302-M6	EP2053305-M6	M 6	1	80	10	25	6	4.9	8	3
	EP2053302-M8	EP2053305-M8	M 8	1.25	90	12	35	8	6.2	9	3
	EP2053302-M10	EP2053305-M10	M 10	1.5	100	15	39	10	8	11	3

≤ M 2.5: Without thread taper

DIN 376	Designation THL	Designation TIN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	EP2058302-M12	EP2058305-M12	M 12	1.75	110	16	83	9	7	10	4
	EP2058302-M14	EP2058305-M14	M 14	2	110	20	81	11	9	12	4
	EP2058302-M16	EP2058305-M16	M 16	2	110	20	68	12	9	12	4

WALTER
SELECT

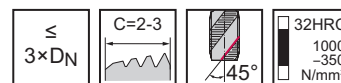
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

TC115 Perform



– For long-chipping materials



	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●●	●●	●			
WY80FC (VAP)	●●	●●	●●	●			

DIN 371	Designation WY80AA	Designation WY80FC	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC115-M1.6-C0-	TC115-M1.6-C0-	M 1.6	0.35	40	6	6	2.5	2.1	5	2
	TC115-M2-C0-	TC115-M2-C0-	M 2	0.4	45	4	9	2.8	2.1	5	3
	TC115-M2.5-C0-	TC115-M2.5-C0-	M 2.5	0.45	50	4	12.5	2.8	2.1	5	3
	TC115-M3-C0-	TC115-M3-C0-	M 3	0.5	56	6	18	3.5	2.7	6	3
	TC115-M4-C0-	TC115-M4-C0-	M 4	0.7	63	7	21	4.5	3.4	6	3
	TC115-M5-C0-	TC115-M5-C0-	M 5	0.8	70	8	25	6	4.9	8	3
	TC115-M6-C0-	TC115-M6-C0-	M 6	1	80	10	30	6	4.9	8	3
	TC115-M8-C0-	TC115-M8-C0-	M 8	1.25	90	12	35	8	6.2	9	3
	TC115-M10-C0-	TC115-M10-C0-	M 10	1.5	100	15	39	10	8	11	3

Ordering example for the grade WY80AA: TC115-M1.6-C0-WY80AA

DIN 376	Designation WY80AA	Designation WY80FC	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC115-M12-L0-	TC115-M12-L0-	M 12	1.75	110	16	83	9	7	10	3
	TC115-M14-L0-	TC115-M14-L0-	M 14	2	110	20	81	11	9	12	3
	TC115-M16-L0-	TC115-M16-L0-	M 16	2	110	20	68	12	9	12	3
	TC115-M20-L0-	TC115-M20-L0-	M 20	2.5	140	25	95	16	12	15	4

Ordering example for the grade WY80AA: TC115-M12-L0-WY80AA

**WALTER
SELECT**

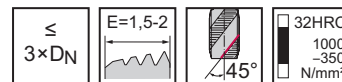
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

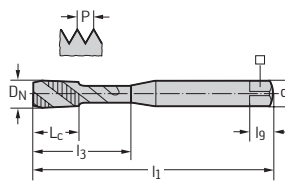
TC115 Perform



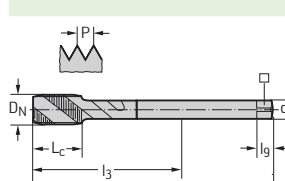
– For long-chipping materials



	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●●	●●	●			

DIN 371	Designation WY80AA	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC115-M3-CE-	M 3	0.5	56	6	18	3.5	2.7	6	3
	TC115-M4-CE-	M 4	0.7	63	7	21	4.5	3.4	6	3
	TC115-M5-CE-	M 5	0.8	70	8	25	6	4.9	8	3
	TC115-M6-CE-	M 6	1	80	10	30	6	4.9	8	3
	TC115-M8-CE-	M 8	1.25	90	12	35	8	6.2	9	3
	TC115-M10-CE-	M 10	1.5	100	15	39	10	8	11	3

Ordering example for the grade WY80AA: TC115-M10-CE-WY80AA

DIN 376	Designation WY80AA	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC115-M12-LE-	M 12	1.75	110	16	83	9	7	10	3
	TC115-M14-LE-	M 14	2	110	20	81	11	9	12	3
	TC115-M16-LE-	M 16	2	110	20	68	12	9	12	3
	TC115-M20-LE-	M 20	2.5	140	25	95	16	12	15	4

Ordering example for the grade WY80AA: TC115-M12-LE-WY80AA

WALTER
SELECT

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E tap set 1
TC115 Perform



– Universal tap set

M
DIN 13

ISO2/6H

$\leq 3 \times D_N$

C=2-3

32HRC

1000

~350

N/mm²

	P	M	K	N	S	H	O
WY80AA (TiN)		●●	●●	●			
WY80FC (VAP)	●●	●●	●●	●			

Tool				WY80AA	WY80FC
Designation	D _N	Quantity			
TC115-SET1-M3-M12-	M 3 – M 12	7			

Ordering example for the grade WY80AA: TC115-SET1-M3-M12-WY80AA

WALTER
SELECT

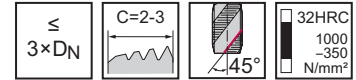
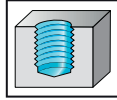
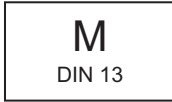
●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E tap set 2 TC115 Perform



- Universal tap set
- Incl. Core-hole drill



	P	M	K	N	S	H	O
WY80AA (TiN)		●●	●●	●			
WY80FC (VAP)		●●	●●	●			

Tool

Designation	D _N	Sets dia. mm	Sets dia. mm	Quantity	WY80AA	WY80FC
TC115-SET2-M3-M12-	M 3 – M 12	2.5	10.2	14	☞	☞

Ordering example for the grade WY80AA: TC115-SET2-M3-M12-WY80AA

C1

**WALTER
SELECT**

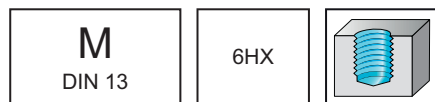
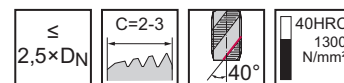
●● Primary application ● Other application
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

HSS-E machine taps

Paradur® Synchrospeed



- For long-chipping materials
- Only for synchronous machining (rigid tapping)



	P	M	K	N	S	H	O
THL	●●	●●	●●	●	●		●
TIN/VAP	●●	●●	●●	●	●		●

~DIN 371	Designation THL	Designation TIN/VAP	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□	l ₉ mm	N
	S2051302-M2	S2051305-M2	M 2	0.4	70	4	7.6	6	4.9	8	3
	S2051302-M2.5	S2051305-M2.5	M 2.5	0.45	70	4.5	9.3	6	4.9	8	3
	S2051302-M3	S2051305-M3	M 3	0.5	70	5	11	6	4.9	8	3
	S2051302-M4	S2051305-M4	M 4	0.7	70	7	14.8	6	4.9	8	3
	S2051302-M5	S2051305-M5	M 5	0.8	70	8.5	20.7	6	4.9	8	3
	S2051302-M6	S2051305-M6	M 6	1	80	10.5	25	6	4.9	8	3
	S2051302-M8	S2051305-M8	M 8	1.25	90	13.5	35	8	6.2	9	3
	S2051302-M10	S2051305-M10	M 10	1.5	100	16	39	10	8	11	3

~DIN 376	Designation THL	Designation TIN/VAP	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□	l ₉ mm	N
	S2056302-M12	S2056305-M12	M 12	1.75	110	18.5	42	12	9	12	3
	S2056302-M14	S2056305-M14	M 14	2	110	21	45	14	11	14	3
	S2056302-M16	S2056305-M16	M 16	2	110	21	55	16	12	15	4
	S2056302-M20	S2056305-M20	M 20	2.5	140	26.5	95	16	12	15	4
	S2056302-M24	S2056305-M24	M 24	3	160	32	97	20	16	19	4

C1

**WALTER
SELECT**

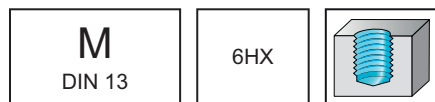
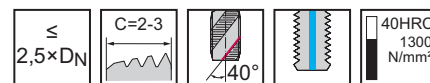
●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine taps

Paradur® Synchrospeed



- For long-chipping materials
- Only for synchronous machining (rigid tapping)



	P	M	K	N	S	H	O
THL	●●	●●	●●	●	●		●
TIN/VAP	●●	●●	●●	●	●		●

~DIN 371	Designation THL	Designation TIN/VAP	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□	l _g mm	N
	S2051312-M5	S2051315-M5	M 5	0.8	70	8.5	20.7	6	4.9	8	3
	S2051312-M6	S2051315-M6	M 6	1	80	10.5	25	6	4.9	8	3
	S2051312-M8	S2051315-M8	M 8	1.25	90	13.5	35	8	6.2	9	3
	S2051312-M10	S2051315-M10	M 10	1.5	100	16	39	10	8	11	3

~DIN 376	Designation THL	Designation TIN/VAP	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□	l _g mm	N
	S2056312-M12	S2056315-M12	M 12	1.75	110	18.5	68	12	9	12	3
	S2056312-M14	S2056315-M14	M 14	2	110	21	66	14	11	14	3
	S2056312-M16	S2056315-M16	M 16	2	110	21	65	16	12	15	4
	S2056312-M20	S2056315-M20	M 20	2.5	140	26.5	95	16	12	15	4

WALTER
SELECT

●● Primary application ● Other application

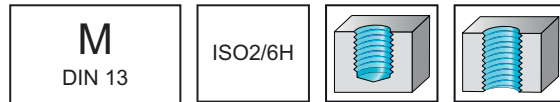
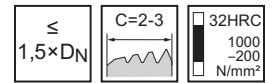
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® H



– For long- and short-chipping materials



	P	M	K	N	S	H	O
uncoated			●	●			●
TIN			●	●			●

DIN 371		Designation TIN	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	N
			20311-M1	M 1	0.25	40	5	5	2.5	3
			20311-M1.2	M 1.2	0.25	40	5	5	2.5	3
			20311-M1.4	M 1.4	0.3	40	6.5	6.5	2.5	3
			20311-M1.6	M 1.6	0.35	40	7	7	2.5	3
			20311-M1.7	M 1.7	0.35	40	7	7	2.5	3
			20311-M1.8	M 1.8	0.35	40	7	7	2.5	3
			20311-M2	M 2	0.4	45	6	9	2.8	3
			20311-M2.3	M 2.3	0.4	45	7	12	2.8	3
			20311-M2.2	M 2.2	0.45	45	7	12	2.8	3
			20311-M2.5	M 2.5	0.45	50	8	12.5	2.8	3
			20311-M2.6	M 2.6	0.45	50	8	12.5	2.8	3
		203115-M3	20311-M3	M 3	0.5	56	9	18	3.5	3
		203115-M3.5	20311-M3.5	M 3.5	0.6	56	11	20	4	3
		203115-M4	20311-M4	M 4	0.7	63	12	21	4.5	3
		203115-M5	20311-M5	M 5	0.8	70	13	25	6	3
		203115-M6	20311-M6	M 6	1	80	15	30	6	3
		203115-M7	20311-M7	M 7	1	80	15	30	7	3
		203115-M8	20311-M8	M 8	1.25	90	18	35	8	3
		203115-M10	20311-M10	M 10	1.5	100	20	39	10	3

≤ M 1.4: 5H

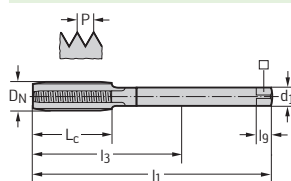
≤ M 1.8: Without reduced neck after the thread

C1

**WALTER
SELECT**

● ● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

DIN 376



Cylindrical shank

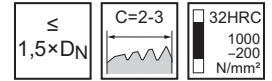
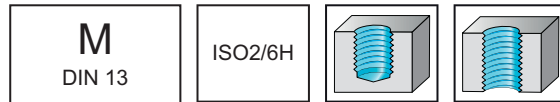
Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	N
20361-M2	M 2	0.4	45	6	26	1.4	3
20361-M2.5	M 2.5	0.45	50	8	31	1.8	3
20361-M3	M 3	0.5	56	9	37	2.2	3
20361-M4	M 4	0.7	63	12	43	2.8	3
20361-M5	M 5	0.8	70	13	49	3.5	3
20361-M6	M 6	1	80	15	59	4.5	3
20361-M8	M 8	1.25	90	18	67	6	3
20361-M10	M 10	1.5	100	20	77	7	3
20361-M12	M 12	1.75	110	23	83	9	3
20361-M14	M 14	2	110	25	81	11	3
20361-M16	M 16	2	110	25	68	12	3
20361-M18	M 18	2.5	125	30	81	14	4
20361-M20	M 20	2.5	140	30	95	16	4
20361-M24	M 24	3	160	36	113	18	4
20361-M27	M 27	3	160	36	97	20	4
20361-M30	M 30	3.5	180	42	115	22	4
20361-M33	M 33	3.5	180	42	113	25	4
20361-M36	M 36	4	200	48	131	28	4
20361-M42	M 42	4.5	200	54	102	32	4

HSS-E machine taps

Paradur® H AZ

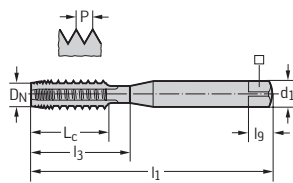


- For long- and short-chipping materials
- For thin-walled workpieces



	P	M	K	N	S	H	O
uncoated			●●	●●			●

DIN 371										
Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N	
40311-M3	M 3	0.5	56	9	18	3.5	2.7	6	3	
40311-M4	M 4	0.7	63	12	21	4.5	3.4	6	3	
40311-M5	M 5	0.8	70	13	25	6	4.9	8	3	
40311-M6	M 6	1	80	15	30	6	4.9	8	3	
40311-M8	M 8	1.25	90	18	35	8	6.2	9	3	



C1

**WALTER
SELECT**

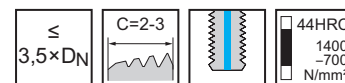
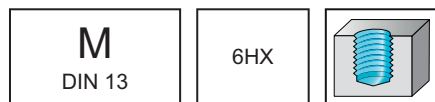
●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine taps

TC130 Supreme

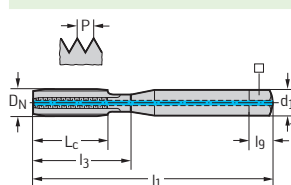


- WY80AA: High Performance
- WY80EH: Excellent Performance



	P	M	K	N	S	H	O
WY80AA (TiN)	●●		●●	●			●
WY80EH (AlCrTiN)	●●		●●	●			●

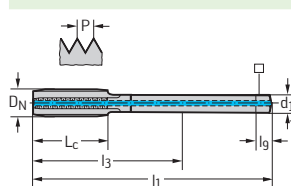
DIN 371



Designation WY80AA	Designation WY80EH	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
TC130-M4-C1-	TC130-M4-C1-	M 4	0.7	63	12	21	4.5	3.4	6	3
TC130-M5-C1-	TC130-M5-C1-	M 5	0.8	70	13	25	6	4.9	8	3
TC130-M6-C1-	TC130-M6-C1-	M 6	1	80	15	30	6	4.9	8	3
TC130-M8-C1-	TC130-M8-C1-	M 8	1.25	90	18	35	8	6.2	9	3
TC130-M10-C1-	TC130-M10-C1-	M 10	1.5	100	20	39	10	8	11	3

Ordering example for the grade WY80AA: TC130-M10-C1-WY80AA

DIN 376



Designation WY80AA	Designation WY80EH	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
TC130-M12-L1-	TC130-M12-L1-	M 12	1.75	110	23	83	9	7	10	3
TC130-M14-L1-		M 14	2	110	25	81	11	9	12	3
TC130-M16-L1-	TC130-M16-L1-	M 16	2	110	25	68	12	9	12	3
TC130-M20-L1-	TC130-M20-L1-	M 20	2.5	140	30	95	16	12	15	3
TC130-M22-L1-		M 22	2.5	140	30	93	18	14.5	17	3
TC130-M24-L1-	TC130-M24-L1-	M 24	3	160	36	113	18	14.5	17	4
TC130-M27-L1-		M 27	3	160	36	97	20	16	19	4
TC130-M30-L1-	TC130-M30-L1-	M 30	3.5	180	42	115	22	18	21	4
TC130-M36-L1-	TC130-M36-L1-	M 36	4	200	48	131	28	22	25	5
TC130-M42-L1-		M 42	4.5	200	54	102	32	24	27	5

Ordering example for the grade WY80AA: TC130-M12-L1-WY80AA

**WALTER
SELECT**

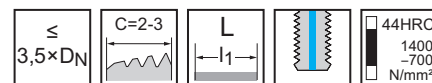
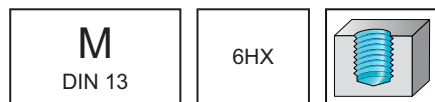
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

TC130 Supreme



- WY80AA: High Performance
- WY80EH: Excellent Performance



	P	M	K	N	S	H	O
WY80AA (TiN)	●●		●●	●			●
WY80EH (AlCrTiN)	●●		●●	●			●

~DIN 376 L		Designation WY80AA	Designation WY80EH	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	TC130-M8-LG-	TC130-M8-LG-		M 8	1.25	110	18	87	6	4.9	8	3
	TC130-M10-LG-	TC130-M10-LG-		M 10	1.5	125	20	102	7	5.5	8	3
	TC130-M12-LG-	TC130-M12-LG-		M 12	1.75	140	23	113	9	7	10	3
	TC130-M14-LG-			M 14	2	140	25	111	11	9	12	3
	TC130-M16-LG-	TC130-M16-LG-		M 16	2	160	25	118	12	9	12	3
	TC130-M20-LG-	TC130-M20-LG-		M 20	2.5	180	30	135	16	12	15	3
	TC130-M22-LG-			M 22	2.5	200	30	153	18	14.5	17	3
	TC130-M24-LG-	TC130-M24-LG-		M 24	3	200	36	153	18	14.5	17	4
	TC130-M27-LG-			M 27	3	225	36	162	20	16	19	4
	TC130-M30-LG-	TC130-M30-LG-		M 30	3.5	250	42	185	22	18	21	4
	TC130-M33-LG-			M 33	3.5	275	42	208	25	20	23	4
	TC130-M36-LG-	TC130-M36-LG-		M 36	4	300	48	231	28	22	25	5
	TC130-M42-LG-			M 42	4.5	350	54	252	32	24	27	5

Ordering example for the grade WY80AA: TC130-M10-LG-WY80AA

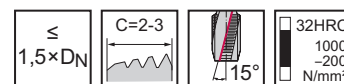
C1

**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® N

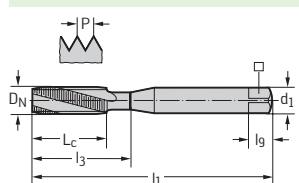


– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●		●●	●●			
TiCN	●●		●●	●●			
TiN	●●		●●	●●			

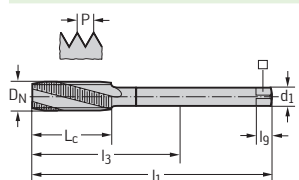
DIN 371



Designation TiCN	Designation TiN	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
		20410-M2	M 2	0.4	45	4	9	2.8	2.1	5	3
		20410-M2.5	M 2.5	0.45	50	4	12.5	2.8	2.1	5	3
	204105-M3	20410-M3	M 3	0.5	56	6	18	3.5	2.7	6	3
		20410-M3.5	M 3.5	0.6	56	6.5	20	4	3	6	3
2041006-M4	204105-M4	20410-M4	M 4	0.7	63	7	21	4.5	3.4	6	3
2041006-M5	204105-M5	20410-M5	M 5	0.8	70	8	25	6	4.9	8	3
2041006-M6	204105-M6	20410-M6	M 6	1	80	10	30	6	4.9	8	3
		20410-M7	M 7	1	80	10	30	7	5.5	8	3
2041006-M8	204105-M8	20410-M8	M 8	1.25	90	12	35	8	6.2	9	3
2041006-M10	204105-M10	20410-M10	M 10	1.5	100	15	39	10	8	11	3

l₉ dimensions in accordance with DIN 10

DIN 376



Designation TiCN	Designation TiN	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
		20460-M3	M 3	0.5	56	6	37	2.2	1.8	4	3
		20460-M4	M 4	0.7	63	7	43	2.8	2.1	5	3
		20460-M5	M 5	0.8	70	8	49	3.5	2.7	6	3
		20460-M6	M 6	1	80	10	59	4.5	3.4	6	3
		20460-M8	M 8	1.25	90	13	67	6	4.9	8	3
		20460-M10	M 10	1.5	100	15	77	7	5.5	8	3
2046006-M12	204605-M12	20460-M12	M 12	1.75	110	16	83	9	7	10	3
2046006-M14	204605-M14	20460-M14	M 14	2	110	20	81	11	9	12	3
2046006-M16	204605-M16	20460-M16	M 16	2	110	20	68	12	9	12	3
		20460-M18	M 18	2.5	125	25	81	14	11	14	4
2046006-M20	204605-M20	20460-M20	M 20	2.5	140	25	95	16	12	15	4
		20460-M22	M 22	2.5	140	25	93	18	14.5	17	4
		20460-M24	M 24	3	160	30	113	18	14.5	17	4
		20460-M30	M 30	3.5	180	35	115	22	18	21	4
		20460-M36	M 36	4	200	40	131	28	22	25	4

l₉ dimensions in accordance with DIN 10

WALTER
SELECT

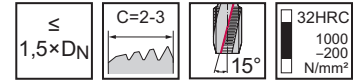
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® N

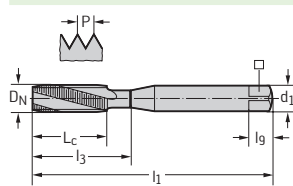


– For long-chipping materials



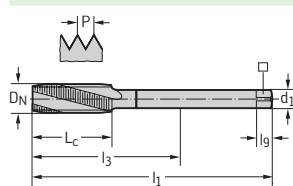
	P	M	K	N	S	H	O
uncoated	●●	●	●●	●●	●	●	●

DIN 371



Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
20430-M2	M 2	0.4	45	4	9	2.8	2.1	5	3
20430-M2.5	M 2.5	0.45	50	4	12.5	2.8	2.1	5	3
20430-M3	M 3	0.5	56	6	18	3.5	2.7	6	3
20430-M4	M 4	0.7	63	7	21	4.5	3.4	6	3
20430-M5	M 5	0.8	70	8	25	6	4.9	8	3
20430-M6	M 6	1	80	10	30	6	4.9	8	3
20430-M8	M 8	1.25	90	12	35	8	6.2	9	3
20430-M10	M 10	1.5	100	15	39	10	8	11	3

DIN 376



Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
20480-M12	M 12	1.75	110	16	83	9	7	10	3
20480-M16	M 16	2	110	20	68	12	9	12	3

C1

**WALTER
SELECT**

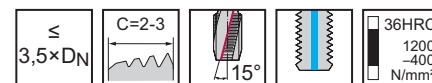
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® NH

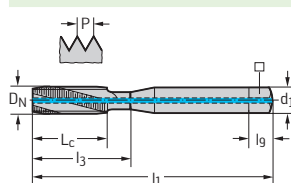


– For long-chipping materials



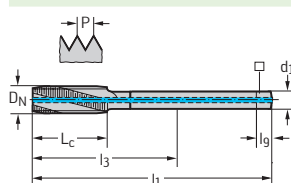
	P	M	K	N	S	H	O
uncoated	●●	●●	●●	●●	●●	●●	●●
TIN	●●	●●	●●	●●	●●	●●	●●

DIN 371



Designation TIN	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
2041215-M4		M 4	0.7	63	12	21	4.5	3.4	6	3
2041215-M5	2041210-M5	M 5	0.8	70	13	25	6	4.9	8	3
2041215-M6	2041210-M6	M 6	1	80	15	30	6	4.9	8	3
2041215-M8	2041210-M8	M 8	1.25	90	18	35	8	6.2	9	3
2041215-M10	2041210-M10	M 10	1.5	100	20	39	10	8	11	3

DIN 376



Designation TIN	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
2046215-M12	2046210-M12	M 12	1.75	110	23	83	9	7	10	4

WALTER
SELECT

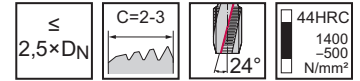
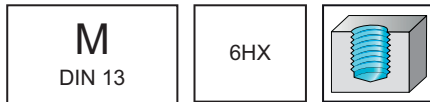
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® H 24



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●	●	●	●	●	●	●

~DIN 371

Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
204107-M3	M 3	0.5	56	11	11	3.5	2.7	6	3
204107-M4	M 4	0.7	63	15	15	4.5	3.4	6	3
204107-M5	M 5	0.8	70	18.5	18.5	6	4.9	8	3
204107-M6	M 6	1	80	15	30	6	4.9	8	3
204107-M8	M 8	1.25	90	18	38	8	6.2	9	3
204107-M10	M 10	1.5	100	20	45	10	8	11	3

DIN 376

Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
204607-M12	M 12	1.75	110	23	83	9	7	10	4
204607-M16	M 16	2	110	25	68	12	9	12	4

C1

**WALTER
SELECT**

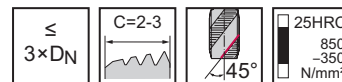
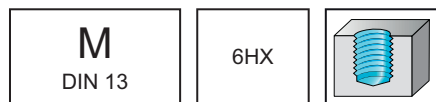
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

TC120 Supreme



– For long-chipping materials



	P	M	K	N	S	H	O
WW60AG (TiN + VAP)	●●			●			

DIN 371	Designation WW60AG	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC120-M3-C0-	M 3	0.5	56	10	18	3.5	2.7	6	3
	TC120-M4-C0-	M 4	0.7	63	13.5	21	4.5	3.4	6	3
	TC120-M5-C0-	M 5	0.8	70	16.5	25	6	4.9	8	3
	TC120-M6-C0-	M 6	1	80	20	30	6	4.9	8	3
	TC120-M8-C0-	M 8	1.25	90	26.5	35	8	6.2	9	3
	TC120-M10-C0-	M 10	1.5	100	33	39	10	8	11	3

Ordering example for the grade WW60AG: TC120-M10-C0-WW60AG

DIN 376	Designation WW60AG	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC120-M12-L0-	M 12	1.75	110	39.5	83	9	7	10	4
	TC120-M16-L0-	M 16	2	120	52	78	12	9	12	4
	TC120-M20-L0-	M 20	2.5	140	65	95	16	12	15	4
	TC120-M24-L0-	M 24	3	160	78	113	18	14.5	17	4
	TC120-M30-L0-	M 30	3.5	205	97	140	22	18	21	4

Ordering example for the grade WW60AG: TC120-M12-L0-WW60AG

**WALTER
SELECT**

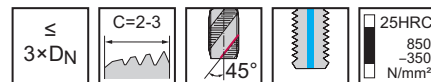
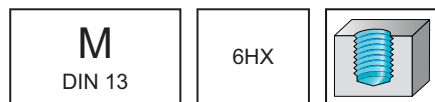
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

TC120 Supreme



– For long-chipping materials



	P	M	K	N	S	H	O
WW60AG (TiN + VAP)	●●			●			

DIN 371	Designation WW60AG	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
	TC120-M8-C1-	M 8	1.25	90	26.5	35	8	6.2	9	3
	TC120-M10-C1-	M 10	1.5	100	33	39	10	8	11	3

Ordering example for the grade WW60AG: TC120-M10-C1-WW60AG

DIN 376	Designation WW60AG	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
	TC120-M12-L1-	M 12	1.75	110	39.5	83	9	7	10	4
	TC120-M16-L1-	M 16	2	120	52	78	12	9	12	4

Ordering example for the grade WW60AG: TC120-M12-L1-WW60AG

**WALTER
SELECT**

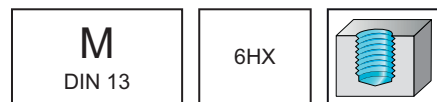
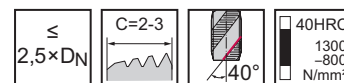
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

TC121 Supreme

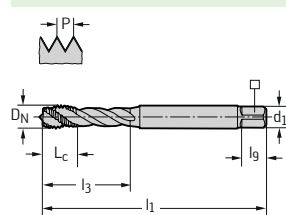


– WW60RG = HSS-E-PM + TiAlN
– WY80BD = HSS-E + TiCN



	P	M	K	N	S	H	O
WW60RG (TiAlN)	●●	●	●	●	●	●	●
WY80BD (TiCN)	●●	●	●	●	●	●	●

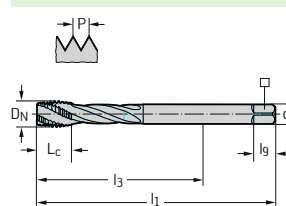
DIN 371



Designation WW60RG	Designation WY80BD	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
TC121-M2-C0-		M 2	0.4	45	4	7.6	2.8	2.1	5	3
TC121-M3-C0-	TC121-M3-C0-	M 3	0.5	56	6	11	3.5	2.7	6	3
TC121-M4-C0-	TC121-M4-C0-	M 4	0.7	63	7	14.8	4.5	3.4	6	3
TC121-M5-C0-	TC121-M5-C0-	M 5	0.8	70	8	20.7	6	4.9	8	3
TC121-M6-C0-	TC121-M6-C0-	M 6	1	80	10	25	6	4.9	8	3
TC121-M8-C0-	TC121-M8-C0-	M 8	1.25	90	12	35	8	6.2	9	3
TC121-M10-C0-	TC121-M10-C0-	M 10	1.5	100	15	39	10	8	11	3

Ordering example for the grade WW60RG: TC121-M10-C0-WW60RG

DIN 376



Designation WW60RG	Designation WY80BD	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
TC121-M12-L0-	TC121-M12-L0-	M 12	1.75	110	16	83	9	7	10	4
TC121-M14-L0-	TC121-M14-L0-	M 14	2	110	20	81	11	9	12	4
TC121-M16-L0-	TC121-M16-L0-	M 16	2	110	20	68	12	9	12	4
TC121-M20-L0-	TC121-M20-L0-	M 20	2.5	140	25	95	16	12	15	4

Ordering example for the grade WW60RG: TC121-M12-L0-WW60RG

WALTER
SELECT

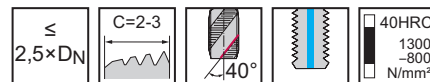
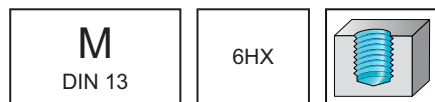
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

TC121 Supreme

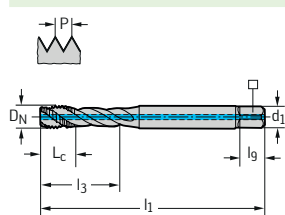


– For long-chipping materials



	P	M	K	N	S	H	O
WW60RG (TiAlN)	●●	●	●	●	●	●	●

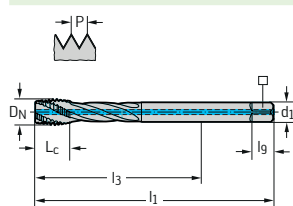
DIN 371



Designation WW60RG	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
TC121-M5-C1-	M 5	0.8	70	8	20.7	6	4.9	8	3
TC121-M6-C1-	M 6	1	80	10	25	6	4.9	8	3
TC121-M8-C1-	M 8	1.25	90	12	35	8	6.2	9	3
TC121-M10-C1-	M 10	1.5	100	15	39	10	8	11	3

Ordering example for the grade WW60RG: TC121-M10-C1-WW60RG

DIN 376



Designation WW60RG	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
TC121-M12-L1-	M 12	1.75	110	16	83	9	7	10	4
TC121-M14-L1-	M 14	2	110	20	81	11	9	12	4
TC121-M16-L1-	M 16	2	110	20	68	12	9	12	4
TC121-M20-L1-	M 20	2.5	140	25	95	16	12	15	4

Ordering example for the grade WW60RG: TC121-M12-L1-WW60RG

**WALTER
SELECT**

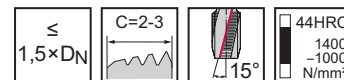
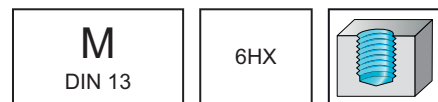
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

TC122 Supreme



– For long-chipping materials



	P	M	K	N	S	H	O
WW60BC (TiCN)	●●		●				

DIN 371	Designation WW60BC	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC122-M3-C0-	M 3	0.5	56	10	10	3.5	2.7	6	3
	TC122-M4-C0-	M 4	0.7	63	13	13	4.5	3.4	6	3
	TC122-M5-C0-	M 5	0.8	70	16	16	6	4.9	8	3
	TC122-M6-C0-	M 6	1	80	15	30	6	4.9	8	3
	TC122-M8-C0-	M 8	1.25	90	18	35	8	6.2	9	3
	TC122-M10-C0-	M 10	1.5	100	20	39	10	8	11	3

Ordering example for the grade WW60BC: TC122-M10-C0-WW60BC

DIN 376	Designation WW60BC	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC122-M12-L0-	M 12	1.75	110	23	83	9	7	10	4
	TC122-M14-L0-	M 14	2	110	25	81	11	9	12	4
	TC122-M16-L0-	M 16	2	110	25	68	12	9	12	4
	TC122-M20-L0-	M 20	2.5	140	30	95	16	12	15	4

Ordering example for the grade WW60BC: TC122-M12-L0-WW60BC

**WALTER
SELECT**

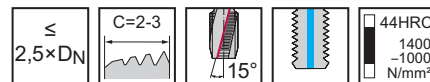
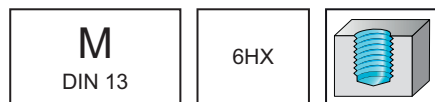
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

TC122 Supreme

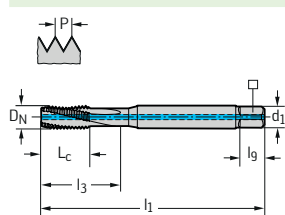


– For long-chipping materials



	P	M	K	N	S	H	O
WW60BC (TiCN)	●●	●	●	●	●	●	●

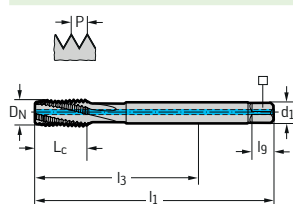
DIN 371



Designation WW60BC	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
TC122-M5-C1-	M 5	0.8	70	16	16	6	4.9	8	3
TC122-M6-C1-	M 6	1	80	15	30	6	4.9	8	3
TC122-M8-C1-	M 8	1.25	90	18	35	8	6.2	9	3
TC122-M10-C1-	M 10	1.5	100	20	39	10	8	11	3

Ordering example for the grade WW60BC: TC122-M10-C1-WW60BC

DIN 376



Designation WW60BC	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
TC122-M12-L1-	M 12	1.75	110	23	83	9	7	10	4
TC122-M14-L1-	M 14	2	110	25	81	11	9	12	4
TC122-M16-L1-	M 16	2	110	25	68	12	9	12	4
TC122-M20-L1-	M 20	2.5	140	30	95	16	12	15	4

Ordering example for the grade WW60BC: TC122-M12-L1-WW60BC

**WALTER
SELECT**

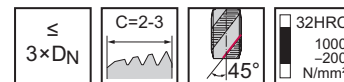
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® X-pert P

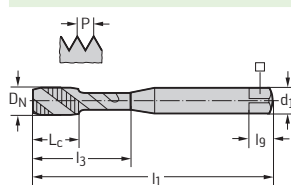


– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 371



Designation uncoated	DN	P mm	l ₁ mm	l _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
P20509-M2	M 2	0.4	45	4	9	2.8	2.1	5	3
P20509-M2.5	M 2.5	0.45	50	4	12.5	2.8	2.1	5	3
P20509-M3	M 3	0.5	56	6	18	3.5	2.7	6	3
P20509-M4	M 4	0.7	63	7	21	4.5	3.4	6	3
P20509-M5	M 5	0.8	70	8	25	6	4.9	8	3
P20509-M6	M 6	1	80	10	30	6	4.9	8	3
P20509-M7	M 7	1	80	10	30	7	5.5	8	3
P20509-M8	M 8	1.25	90	12	35	8	6.2	9	3
P20509-M10	M 10	1.5	100	15	39	10	8	11	3

C1

**WALTER
SELECT**

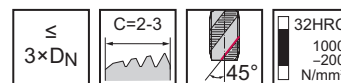
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® X-pert P

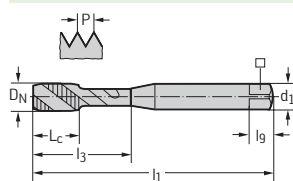


– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●			●			●
TIN	●●			●			●

DIN 371



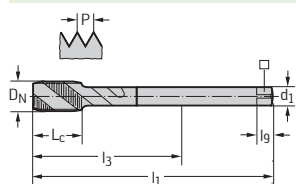
Designation TIN	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	P20519-M1.6	M 1.6	0.35	40	6	6	2.5	2.1	5	2
P2051905-M2	P20519-M2	M 2	0.4	45	4	9	2.8	2.1	5	3
	P20519-M2.2	M 2.2	0.45	45	4	12	2.8	2.1	5	3
P2051905-M2.5	P20519-M2.5	M 2.5	0.45	50	4	12.5	2.8	2.1	5	3
	P20519-M2.6	M 2.6	0.45	50	4	12.5	2.8	2.1	5	3
P2051905-M3	P20519-M3	M 3	0.5	56	6	18	3.5	2.7	6	3
P2051905-M3.5	P20519-M3.5	M 3.5	0.6	56	6.5	20	4	3	6	3
P2051905-M4	P20519-M4	M 4	0.7	63	7	21	4.5	3.4	6	3
	P20519-M4.5	M 4.5	0.75	70	8	25	6	4.9	8	3
P2051905-M5	P20519-M5	M 5	0.8	70	8	25	6	4.9	8	3
P2051905-M6	P20519-M6	M 6	1	80	10	30	6	4.9	8	3
	P20519-M7	M 7	1	80	10	30	7	5.5	8	3
P2051905-M8	P20519-M8	M 8	1.25	90	12	35	8	6.2	9	3
P2051905-M10	P20519-M10	M 10	1.5	100	15	39	10	8	11	3

C1

**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

DIN 376



Designation TIN	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	P20569-M4	M 4	0.7	63	7	43	2.8	2.1	5	3
	P20569-M5	M 5	0.8	70	8	49	3.5	2.7	6	3
	P20569-M6	M 6	1	80	10	59	4.5	3.4	6	3
	P20569-M8	M 8	1.25	90	12	67	6	4.9	8	3
	P20569-M9	M 9	1.25	90	13	67	7	5.5	8	3
	P20569-M10	M 10	1.5	100	15	77	7	5.5	8	3
	P20569-M11	M 11	1.5	100	15	76	8	6.2	9	3
P2056905-M12	P20569-M12	M 12	1.75	110	16	83	9	7	10	3
P2056905-M14	P20569-M14	M 14	2	110	20	81	11	9	12	3
P2056905-M16	P20569-M16	M 16	2	110	20	68	12	9	12	3
P2056905-M18	P20569-M18	M 18	2.5	125	25	81	14	11	14	4
P2056905-M20	P20569-M20	M 20	2.5	140	25	95	16	12	15	4
	P20569-M22	M 22	2.5	140	25	93	18	14.5	17	4
P2056905-M24	P20569-M24	M 24	3	160	30	113	18	14.5	17	4
	P20569-M27	M 27	3	160	30	97	20	16	19	4
P2056905-M30	P20569-M30	M 30	3.5	180	35	115	22	18	21	4
	P20569-M33	M 33	3.5	180	35	113	25	20	23	4
	P20569-M36	M 36	4	200	40	131	28	22	25	4
	P20569-M39	M 39	4	200	40	102	32	24	27	4
	P20569-M42	M 42	4.5	200	45	102	32	24	27	4
	P20569-M45	M 45	4.5	220	45	117	36	29	32	4
	P20569-M48	M 48	5	250	50	147	36	29	32	4
	P20569-M52	M 52	5	250	50	120	40	32	35	5
	P20569-M56	M 56	5.5	250	55	120	40	32	35	5
	P20569-M60	M 60	5.5	280	55	147	45	35	38	5
	P20569-M64	M 64	6	315	60	178	50	39	42	6

C1

HSS-E machine taps

Paradur® X-pert P

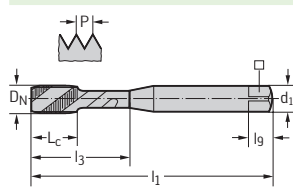


– For long-chipping materials



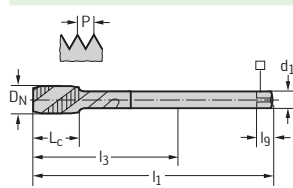
	P	M	K	N	S	H	O
uncoated	●●	●	●	●	●	●	●

DIN 371



Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
P205198-M3	M 3	0.5	56	6	18	3.5	2.7	6	3
P205198-M4	M 4	0.7	63	7	21	4.5	3.4	6	3
P205198-M5	M 5	0.8	70	8	25	6	4.9	8	3
P205198-M6	M 6	1	80	10	30	6	4.9	8	3
P205198-M8	M 8	1.25	90	12	35	8	6.2	9	3
P205198-M10	M 10	1.5	100	15	39	10	8	11	3

DIN 376



Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
P205698-M12	M 12	1.75	110	16	83	9	7	10	3
P205698-M14	M 14	2	110	20	81	11	9	12	3
P205698-M16	M 16	2	110	20	68	12	9	12	3
P205698-M20	M 20	2.5	140	25	95	16	12	15	4
P205698-M24	M 24	3	160	30	113	18	14.5	17	4
P205698-M30	M 30	3.5	180	35	115	22	18	21	4

C1

**WALTER
SELECT**

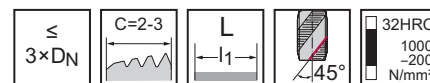
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine taps

Paradur® X-pert P



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●	●	●	●	●	●
THL	●●	●	●	●	●	●	●

~DIN 371 L	Designation THL	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	P2051832-M3	P205183-M3	M 3	0.5	112	6	18	3.5	2.7	6	3
	P2051832-M4	P205183-M4	M 4	0.7	112	7	21	4.5	3.4	6	3
	P2051832-M5	P205183-M5	M 5	0.8	125	8	25	6	4.9	8	3
	P2051832-M6	P205183-M6	M 6	1	125	10	30	6	4.9	8	3
	P2051832-M8	P205183-M8	M 8	1.25	140	13	40	8	6.2	9	3
	P2051832-M10	P205183-M10	M 10	1.5	160	15	50	10	8	11	3

~DIN 376 L	Designation THL	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	P2056832-M8	P205683-M8	M 8	1.25	140	12	117	6	4.9	8	3
	P2056832-M10	P205683-M10	M 10	1.5	160	15	137	7	5.5	8	3
	P2056832-M12	P205683-M12	M 12	1.75	180	16	153	9	7	10	3
	P2056832-M14	P205683-M14	M 14	2	180	20	151	11	9	12	3
	P2056832-M16	P205683-M16	M 16	2	200	20	158	12	9	12	3
	P2056832-M20	P205683-M20	M 20	2.5	224	25	179	16	12	15	4

WALTER
SELECT

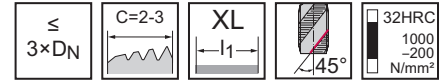
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® X-pert P



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●	●	●	●	●	●

~DIN 371 XL

Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
P2051935-M3	M 3	0.5	125	6	18	3.5	2.7	6	3
P2051935-M4	M 4	0.7	125	7	21	4.5	3.4	6	3
P2051935-M5	M 5	0.8	140	8	25	6	4.9	8	3
P2051935-M6	M 6	1	160	10	30	6	4.9	8	3
P2051935-M8	M 8	1.25	180	13	35	8	6.2	9	3
P2051935-M10	M 10	1.5	200	15	39	10	8	11	3

~DIN 376 XL

Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
P2056935-M8	M 8	1.25	180	12	157	6	4.9	8	3
P2056935-M10	M 10	1.5	200	15	177	7	5.5	8	3
P2056935-M12	M 12	1.75	220	16	193	9	7	10	3
P2056935-M14	M 14	2	220	20	191	11	9	12	3
P2056935-M16	M 16	2	220	20	178	12	9	12	3
P2056935-M18	M 18	2.5	250	25	206	14	11	14	4
P2056935-M20	M 20	2.5	280	25	235	16	12	15	4

C1

**WALTER
SELECT**

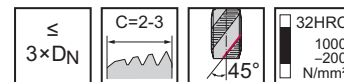
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® X-pert P AZ

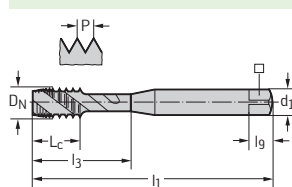


- For long-chipping materials
- For thin-walled workpieces



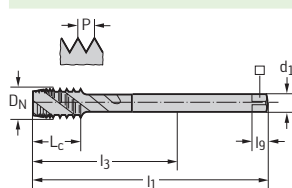
	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 371



Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
P40519-M3	M 3	0.5	56	6	18	3.5	2.7	6	3
P40519-M4	M 4	0.7	63	7	21	4.5	3.4	6	3
P40519-M5	M 5	0.8	70	8	25	6	4.9	8	3
P40519-M6	M 6	1	80	10	30	6	4.9	8	3
P40519-M8	M 8	1.25	90	12	35	8	6.2	9	3
P40519-M10	M 10	1.5	100	15	39	10	8	11	3

DIN 376



Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
P40569-M12	M 12	1.75	110	16	83	9	7	10	3

**WALTER
SELECT**

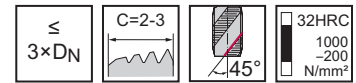
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® X-pert P

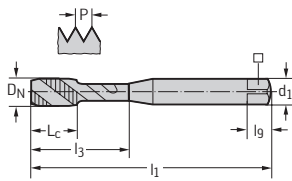


– For long-chipping materials



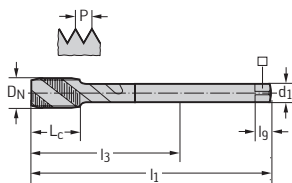
	P	M	K	N	S	H	O
uncoated	●●	●	●	●	●	●	●
TIN	●●	●	●	●	●	●	●

DIN 371



Designation TIN	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	P20539-M2	M 2	0.4	45	4	9	2.8	2.1	5	3
	P20539-M2.3	M 2.3	0.4	45	4	12	2.8	2.1	5	3
P2053905-M2.5	P20539-M2.5	M 2.5	0.45	50	4	12.5	2.8	2.1	5	3
P2053905-M3	P20539-M3	M 3	0.5	56	6	18	3.5	2.7	6	3
	P20539-M3.5	M 3.5	0.6	56	6.5	20	4	3	6	3
P2053905-M4	P20539-M4	M 4	0.7	63	7	21	4.5	3.4	6	3
P2053905-M5	P20539-M5	M 5	0.8	70	8	25	6	4.9	8	3
P2053905-M6	P20539-M6	M 6	1	80	10	30	6	4.9	8	3
P2053905-M8	P20539-M8	M 8	1.25	90	12	35	8	6.2	9	3
P2053905-M10	P20539-M10	M 10	1.5	100	15	39	10	8	11	3

DIN 376



Designation TIN	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	P20589-M5	M 5	0.8	70	8	49	3.5	2.7	6	3
	P20589-M6	M 6	1	80	10	59	4.5	3.4	6	3
	P20589-M8	M 8	1.25	90	12	67	6	4.9	8	3
	P20589-M10	M 10	1.5	100	15	77	7	5.5	8	3
P2058905-M12	P20589-M12	M 12	1.75	110	16	83	9	7	10	3
	P20589-M14	M 14	2	110	20	81	11	9	12	3
P2058905-M16	P20589-M16	M 16	2	110	20	68	12	9	12	3

**WALTER
SELECT**

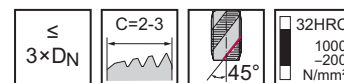
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® X-pert P

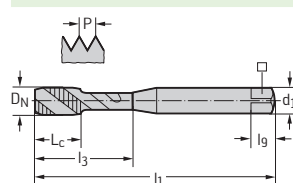


– For long-chipping materials



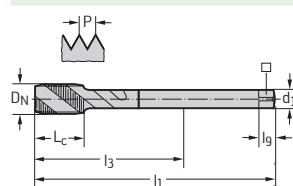
	P	M	K	N	S	H	O
uncoated	●●			●			●
TIN	●●			●			●

DIN 371



Designation TIN	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	P20549-M2	M 2	0.4	45	4	9	2.8	2.1	5	3
	P20549-M2.5	M 2.5	0.45	50	4	12.5	2.8	2.1	5	3
P2054905-M3	P20549-M3	M 3	0.5	56	6	18	3.5	2.7	6	3
P2054905-M4	P20549-M4	M 4	0.7	63	7	21	4.5	3.4	6	3
P2054905-M5	P20549-M5	M 5	0.8	70	8	25	6	4.9	8	3
P2054905-M6	P20549-M6	M 6	1	80	10	30	6	4.9	8	3
P2054905-M8	P20549-M8	M 8	1.25	90	12	35	8	6.2	9	3
P2054905-M10	P20549-M10	M 10	1.5	100	15	39	10	8	11	3

DIN 376



Designation TIN	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	P20599-M8	M 8	1.25	90	12	67	6	4.9	8	3
	P20599-M10	M 10	1.5	100	15	77	7	5.5	8	3
P2059905-M12	P20599-M12	M 12	1.75	110	16	83	9	7	10	3
P2059905-M16	P20599-M16	M 16	2	110	20	68	12	9	12	3
P2059905-M20	P20599-M20	M 20	2.5	140	25	95	16	12	15	4
P2059905-M24	P20599-M24	M 24	3	160	30	113	18	14.5	17	4

WALTER
SELECT

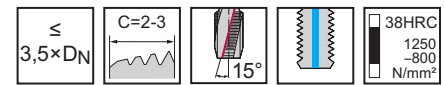
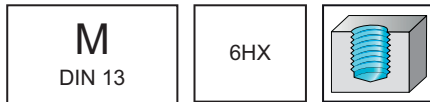
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® Short Chip HT

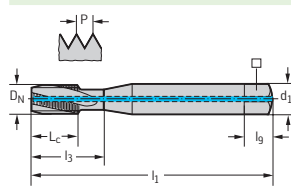


– For long-chipping materials



	P	M	K	N	S	H	O
THL	●●		●	●			
uncoated	●●		●	●			

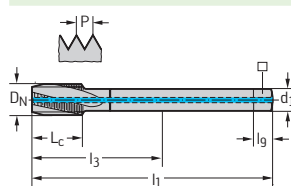
DIN 371



Designation THL	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
20410T2-M5	20410TR-M5	M 5	0.8	70	8	25	6	4.9	8	3
20410T2-M6	20410TR-M6	M 6	1	80	10	30	6	4.9	8	3
20410T2-M8	20410TR-M8	M 8	1.25	90	12	35	8	6.2	9	3
20410T2-M10	20410TR-M10	M 10	1.5	100	15	39	10	8	11	3

20410TR: Uncoated rake

DIN 376



Designation THL	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
20460T2-M12	20460TR-M12	M 12	1.75	110	16	83	9	7	10	3

20460TR: Uncoated rake

C1

**WALTER
SELECT**

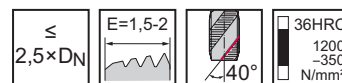
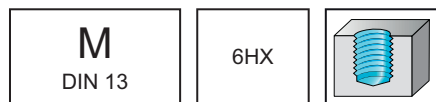
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® STE



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●	●	●	●	●	●	●
THL	●	●	●	●	●	●	●

DIN 371	Designation THL	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	2051062-M3	205106-M3	M 3	0.5	56	6	18	3.5	2.7	6	3
	2051062-M4	205106-M4	M 4	0.7	63	7	21	4.5	3.4	6	3
	2051062-M5	205106-M5	M 5	0.8	70	8	25	6	4.9	8	3
	2051062-M6	205106-M6	M 6	1	80	10	30	6	4.9	8	3
	2051062-M8	205106-M8	M 8	1.25	90	12	35	8	6.2	9	4
	2051062-M10	205106-M10	M 10	1.5	100	15	39	10	8	11	4

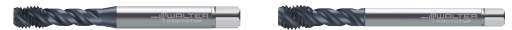
DIN 376	Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	2056062-M12	M 12	1.75	110	16	83	9	7	10	4
	2056062-M16	M 16	2	110	20	68	12	9	12	5
	2056062-M20	M 20	2.5	140	25	95	16	12	15	5
	2056062-M24	M 24	3	160	30	113	18	14.5	17	5

WALTER
SELECT

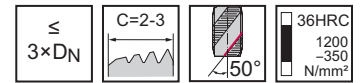
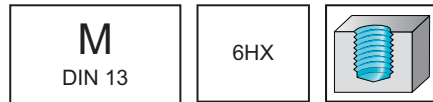
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

TC142 Supreme



- WY80FC: Best chip control
- WW60RB: Best wear resistance



	P	M	K	N	S	H	O
WY80FC (VAP)	●	●●	●	●	●	●	●
WW60RB (TiAlN)	●	●●	●	●	●	●	●

DIN 371	Designation WW60RB	Designation WY80FC	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
		TC142-M1.6-C0-	M 1.6	0.35	40	6	6	2.5	2.1	5	2
	TC142-M2-C0-	TC142-M2-C0-	M 2	0.4	45	4	9	2.8	2.1	5	3
		TC142-M2.3-C0-	M 2.3	0.4	45	4	12	2.8	2.1	5	3
		TC142-M2.5-C0-	M 2.5	0.45	50	4	12.5	2.8	2.1	5	3
		TC142-M2.6-C0-	M 2.6	0.45	50	4	12.5	2.8	2.1	5	3
	TC142-M3-C0-	TC142-M3-C0-	M 3	0.5	56	6	18	3.5	2.7	6	3
	TC142-M4-C0-	TC142-M4-C0-	M 4	0.7	63	7	21	4.5	3.4	6	3
	TC142-M5-C0-	TC142-M5-C0-	M 5	0.8	70	8	25	6	4.9	8	3
	TC142-M6-C0-	TC142-M6-C0-	M 6	1	80	10	30	6	4.9	8	3
	TC142-M8-C0-	TC142-M8-C0-	M 8	1.25	90	12	35	8	6.2	9	3
	TC142-M10-C0-	TC142-M10-C0-	M 10	1.5	100	15	39	10	8	11	3

Ordering example for the grade WY80FC: TC142-M1.6-C0-WY80FC

DIN 376	Designation WW60RB	Designation WY80FC	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
		TC142-M6-L0-	M 6	1	80	10	59	4.5	3.4	6	3
		TC142-M8-L0-	M 8	1.25	90	12	67	6	4.9	8	3
	TC142-M10-L0-	TC142-M10-L0-	M 10	1.5	100	15	77	7	5.5	8	3
	TC142-M12-L0-	TC142-M12-L0-	M 12	1.75	110	16	83	9	7	10	3
	TC142-M14-L0-	TC142-M14-L0-	M 14	2	110	20	81	11	9	12	3
	TC142-M16-L0-	TC142-M16-L0-	M 16	2	110	20	68	12	9	12	4
	TC142-M18-L0-		M 18	2.5	125	25	81	14	11	14	4
	TC142-M20-L0-	TC142-M20-L0-	M 20	2.5	140	25	95	16	12	15	4
	TC142-M24-L0-	TC142-M24-L0-	M 24	3	160	30	113	18	14.5	17	4
		TC142-M27-L0-	M 27	3	160	30	97	20	16	19	4
		TC142-M30-L0-	M 30	3.5	180	35	115	22	18	21	5
		TC142-M33-L0-	M 33	3.5	180	35	113	25	20	23	5
		TC142-M36-L0-	M 36	4	200	40	131	28	22	25	5

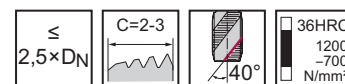
Ordering example for the grade WW60RB: TC142-M10-L0-WW60RB

**WALTER
SELECT**

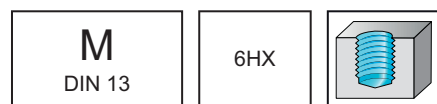
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® X-pert M

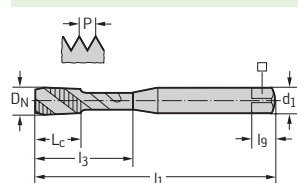


– For long-chipping materials



	P	M	K	N	S	H	O
VAP	●	●●	●	●	●	●	●
TIN	●	●●	●	●	●	●	●
TICN	●	●●	●	●	●	●	●

DIN 371



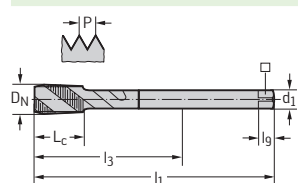
Designation TICN	Designation TIN	Designation VAP	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
		M20513-M1.6	M 1.6	0.35	40	6	6	2.5	2.1	5	3
		M20513-M1.7	M 1.7	0.35	40	6	6	2.5	2.1	5	3
		M20513-M1.8	M 1.8	0.35	40	6	6	2.5	2.1	5	3
M2051306-M2	M2051305-M2	M20513-M2	M 2	0.4	45	4	9	2.8	2.1	5	3
M2051306-M2.5	M2051305-M2.5	M20513-M2.5	M 2.5	0.45	50	4	12.5	2.8	2.1	5	3
M2051306-M3	M2051305-M3	M20513-M3	M 3	0.5	56	6	18	3.5	2.7	6	3
		M20513-M3.5	M 3.5	0.6	56	6.5	20	4	3	6	3
M2051306-M4	M2051305-M4	M20513-M4	M 4	0.7	63	7	21	4.5	3.4	6	3
		M20513-M4.5	M 4.5	0.75	70	8	25	6	4.9	8	3
M2051306-M5	M2051305-M5	M20513-M5	M 5	0.8	70	8	25	6	4.9	8	3
M2051306-M6	M2051305-M6	M20513-M6	M 6	1	80	10	30	6	4.9	8	3
		M20513-M7	M 7	1	80	10	30	7	5.5	8	3
M2051306-M8	M2051305-M8	M20513-M8	M 8	1.25	90	12	35	8	6.2	9	3
M2051306-M10	M2051305-M10	M20513-M10	M 10	1.5	100	15	39	10	8	11	3

≤ M 1.8: Without reduced neck after the thread

≤ M 2.5: Without thread taper

l₉ dimensions in accordance with DIN 10

DIN 376



Designation TICN	Designation TIN	Designation VAP	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
M2056306-M6		M20563-M6	M 6	1	80	10	59	4.5	3.4	6	3
M2056306-M8		M20563-M8	M 8	1.25	90	12	67	6	4.9	8	3
M2056306-M10		M20563-M10	M 10	1.5	100	15	77	7	5.5	8	3
M2056306-M12	M2056305-M12	M20563-M12	M 12	1.75	110	16	83	9	7	10	4
		M20563-M14	M 14	2	110	20	81	11	9	12	4
M2056306-M16	M2056305-M16	M20563-M16	M 16	2	110	20	68	12	9	12	4
		M20563-M18	M 18	2.5	125	25	81	14	11	14	4
M2056306-M20	M2056305-M20	M20563-M20	M 20	2.5	140	25	95	16	12	15	4
		M20563-M22	M 22	2.5	140	25	93	18	14.5	17	4
M2056306-M24		M20563-M24	M 24	3	160	30	113	18	14.5	17	4
		M20563-M27	M 27	3	160	30	97	20	16	19	5
M2056306-M30		M20563-M30	M 30	3.5	180	35	115	22	18	21	5
		M20563-M33	M 33	3.5	180	35	113	25	20	23	5
		M20563-M36	M 36	4	200	40	131	28	22	25	5
		M20563-M42	M 42	4.5	200	45	102	32	24	27	5

l₉ dimensions in accordance with DIN 10

**WALTER
SELECT**

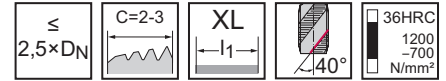
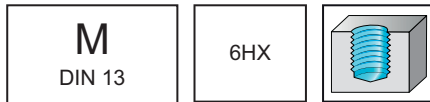
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

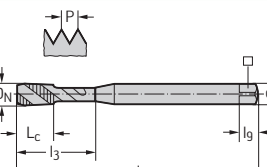
Paradur® X-pert M

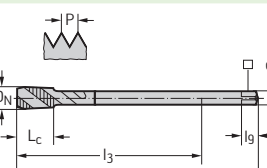


– For long-chipping materials



	P	M	K	N	S	H	O
THL	●	●●	●	●	●	●	●

~DIN 371 XL										
	Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
	M2051332-M4	M 4	0.7	125	7	21	4,5	3.4	6	3
	M2051332-M5	M 5	0.8	140	8	25	6	4.9	8	3
	M2051332-M6	M 6	1	160	10	30	6	4.9	8	3

~DIN 376 XL										
	Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
	M2056332-M8	M 8	1.25	180	12	157	6	4.9	8	3
	M2056332-M10	M 10	1.5	200	15	177	7	5.5	8	3
	M2056332-M12	M 12	1.75	220	16	193	9	7	10	4
	M2056332-M16	M 16	2	220	20	178	12	9	12	4
	M2056332-M20	M 20	2.5	280	25	235	16	12	15	4

C1

**WALTER
SELECT**

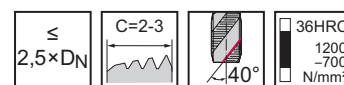
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine taps

Paradur® X-pert M

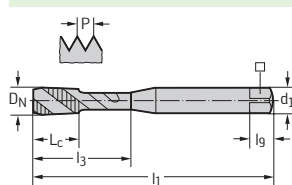


– For long-chipping materials



	P	M	K	N	S	H	O
VAP	●	●●					
TICN	●	●●					

DIN 371



Designation TICN	Designation VAP	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
M2053306-M3	M20533-M3	M 3	0.5	56	6	18	3.5	2.7	6	3
M2053306-M4	M20533-M4	M 4	0.7	63	7	21	4.5	3.4	6	3
M2053306-M5	M20533-M5	M 5	0.8	70	8	25	6	4.9	8	3
M2053306-M6	M20533-M6	M 6	1	80	10	30	6	4.9	8	3
M2053306-M8	M20533-M8	M 8	1.25	90	12	35	8	6.2	9	3
M2053306-M10	M20533-M10	M 10	1.5	100	15	39	10	8	11	3

C1

WALTER
SELECT

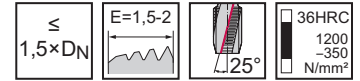
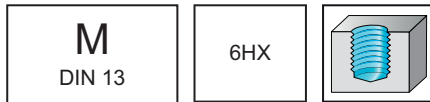
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur Inox® 25



– For long-chipping materials



	P	M	K	N	S	H	O
TIN	●●	●●	●●	●●	●●	●●	●●

~DIN 371		Designation TIN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
		2051315-M5	M 5	0.8	70	8	19	6	4.9	8	4
		2051315-M6	M 6	1	80	10	22	6	4.9	8	4
		2051315-M8	M 8	1.25	90	13	28	8	6.2	9	5
		2051315-M10	M 10	1.5	100	15	32	10	8	11	5
DIN 376		Designation TIN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
		2056315-M12	M 12	1.75	110	16	83	9	7	10	5
		2056315-M14	M 14	2	110	20	81	11	9	12	5
		2056315-M16	M 16	2	110	20	68	12	9	12	5
		2056315-M20	M 20	2.5	140	25	95	16	12	15	5

C1

**WALTER
SELECT**

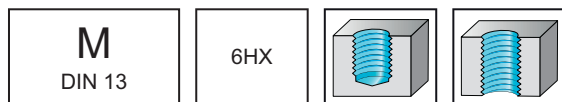
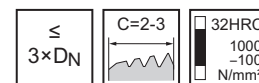
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® Eco CI

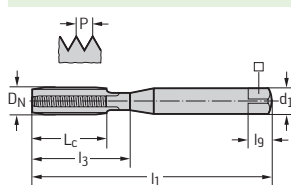


– For short-chipping materials



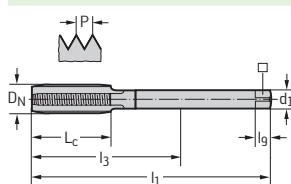
	P	M	K	N	S	H	O
NID			●●	●●			●●
TICN			●●	●●			●●

DIN 371



Designation NID	Designation TICN	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
E20314-M3	E2031406-M3	M 3	0.5	56	9	18	3.5	2.7	6	3
E20314-M4	E2031406-M4	M 4	0.7	63	12	21	4.5	3.4	6	3
E20314-M5	E2031406-M5	M 5	0.8	70	13	25	6	4.9	8	4
E20314-M6	E2031406-M6	M 6	1	80	15	30	6	4.9	8	4
E20314-M7	E2031406-M7	M 7	1	80	15	30	7	5.5	8	4
E20314-M8	E2031406-M8	M 8	1.25	90	18	35	8	6.2	9	4
	E2031406-M9	M 9	1.25	90	18	35	9	7	10	4
E20314-M10	E2031406-M10	M 10	1.5	100	20	39	10	8	11	4

DIN 376



Designation NID	Designation TICN	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
E20364-M12	E2036406-M12	M 12	1.75	110	23	83	9	7	10	4
E20364-M14	E2036406-M14	M 14	2	110	25	81	11	9	12	4
E20364-M16	E2036406-M16	M 16	2	110	25	68	12	9	12	4
E20364-M18	E2036406-M18	M 18	2.5	125	30	81	14	11	14	4
E20364-M20	E2036406-M20	M 20	2.5	140	30	95	16	12	15	4
E20364-M22	E2036406-M22	M 22	2.5	140	30	93	18	14.5	17	4
E20364-M24	E2036406-M24	M 24	3	160	36	113	18	14.5	17	5
E20364-M30	E2036406-M30	M 30	3.5	180	42	115	22	18	21	5

NID = Nidamised (NIT+VAP)

WALTER
SELECT

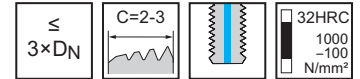
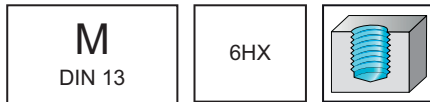
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® Eco CI

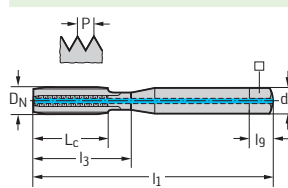


– For short-chipping materials



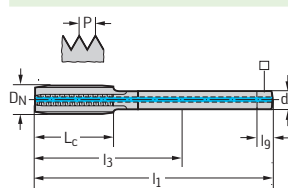
	P	M	K	N	S	H	O
TICN			●●	●●			●●

DIN 371



Designation TICN	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
E2031416-M4	M 4	0.7	63	12	21	4.5	3.4	6	3
E2031416-M5	M 5	0.8	70	13	25	6	4.9	8	4
E2031416-M6	M 6	1	80	15	30	6	4.9	8	4
E2031416-M7	M 7	1	80	15	30	7	5.5	8	4
E2031416-M8	M 8	1.25	90	18	35	8	6.2	9	4
E2031416-M10	M 10	1.5	100	20	39	10	8	11	4

DIN 376



Designation TICN	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
E2036416-M12	M 12	1.75	110	23	83	9	7	10	4
E2036416-M14	M 14	2	110	25	81	11	9	12	4
E2036416-M16	M 16	2	110	25	68	12	9	12	4
E2036416-M18	M 18	2.5	125	30	81	14	11	14	4
E2036416-M20	M 20	2.5	140	30	95	16	12	15	4
E2036416-M24	M 24	3	160	36	113	18	14.5	17	5

C1

**WALTER
SELECT**

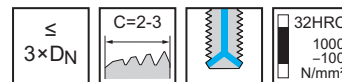
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® Eco C1



– For short-chipping materials



	P	M	K	N	S	H	O
TICN			●●	●●			●●

DIN 371	Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	E2031446-M6	M 6	1	80	15	30	6	4.9	8	4
	E2031446-M8	M 8	1.25	90	18	35	8	6.2	9	4
	E2031446-M10	M 10	1.5	100	20	39	10	8	11	4

DIN 376	Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	E2036446-M12	M 12	1.75	110	23	83	9	7	10	4
	E2036446-M16	M 16	2	110	25	68	12	9	12	4

WALTER
SELECT

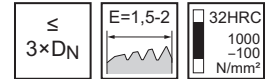
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® Eco CI

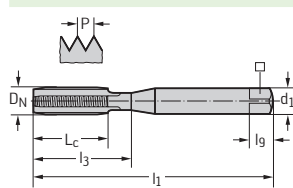


– For short-chipping materials



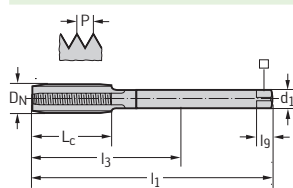
	P	M	K	N	S	H	O
TICN			●●	●●			●●

DIN 371



Designation TICN	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
E2031466-M4	M 4	0.7	63	12	21	4.5	3.4	6	3
E2031466-M5	M 5	0.8	70	13	25	6	4.9	8	4
E2031466-M6	M 6	1	80	15	30	6	4.9	8	4
E2031466-M8	M 8	1.25	90	18	35	8	6.2	9	4
E2031466-M10	M 10	1.5	100	20	39	10	8	11	4

DIN 376



Designation TICN	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
E2036466-M12	M 12	1.75	110	23	83	9	7	10	4
E2036466-M16	M 16	2	110	25	68	12	9	12	4
E2036466-M20	M 20	2.5	140	30	95	16	12	15	4
E2036466-M24	M 24	3	160	36	113	18	14.5	17	5

C1

**WALTER
SELECT**

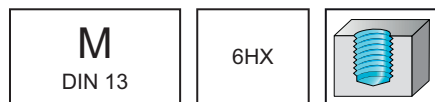
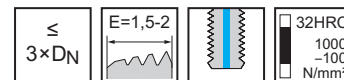
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® Eco CI

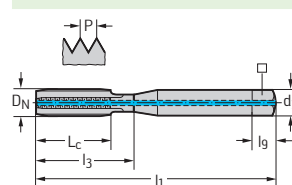


– For short-chipping materials



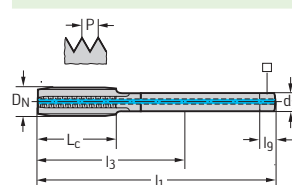
	P	M	K	N	S	H	O
TICN			●●	●●			●●

DIN 371



Designation TICN	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
E2031456-M4	M 4	0.7	63	12	21	4.5	3.4	6	3
E2031456-M5	M 5	0.8	70	13	25	6	4.9	8	4
E2031456-M6	M 6	1	80	15	30	6	4.9	8	4
E2031456-M8	M 8	1.25	90	18	35	8	6.2	9	4
E2031456-M10	M 10	1.5	100	20	39	10	8	11	4

DIN 376



Designation TICN	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
E2036456-M12	M 12	1.75	110	23	83	9	7	10	4
E2036456-M16	M 16	2	110	25	68	12	9	12	4
E2036456-M20	M 20	2.5	140	30	95	16	12	15	4

**WALTER
SELECT**

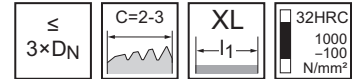
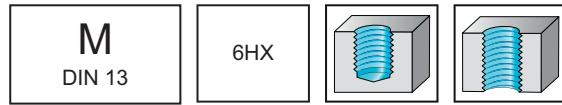
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® Eco CI



– For short-chipping materials



	P	M	K	N	S	H	O
TICN			●●	●●			●●

~DIN 371 XL										
	Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
	E2031436-M4	M 4	0.7	125	12	21	4.5	3.4	6	3
	E2031436-M5	M 5	0.8	140	13	25	6	4.9	8	4
	E2031436-M6	M 6	1	160	15	30	6	4.9	8	4
	E2031436-M8	M 8	1.25	180	18	35	8	6.2	9	4
	E2031436-M10	M 10	1.5	200	20	39	10	8	11	4
~DIN 376 XL										
	Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
	E2036436-M12	M 12	1.75	220	23	193	9	7	10	4
	E2036436-M16	M 16	2	220	25	178	12	9	12	4
	E2036436-M20	M 20	2.5	280	30	235	16	12	15	4

C1

WALTER
SELECT

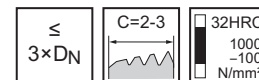
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® X-pert K

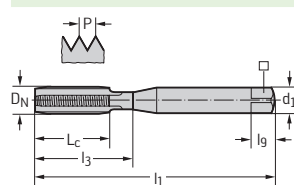


– For short-chipping materials



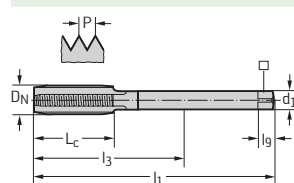
	P	M	K	N	S	H	O
TAFT			●●	●			

DIN 371



Designation TAFT	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	lg mm	N
K2031407-M3	M 3	0.5	56	9	17	3.5	2.7	6	3
K2031407-M4	M 4	0.7	63	11	19	4.5	3.4	6	3
K2031407-M5	M 5	0.8	70	13	23	6	4.9	8	4
K2031407-M6	M 6	1	80	15	27	6	4.9	8	4
K2031407-M8	M 8	1.25	90	18	31	8	6.2	9	4
K2031407-M10	M 10	1.5	100	20	35	10	8	11	4

DIN 376



Designation TAFT	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	lg mm	N
K2036407-M12	M 12	1.75	110	23	78	9	7	10	4
K2036407-M14	M 14	2	110	25	75	11	9	12	4
K2036407-M16	M 16	2	110	25	62	12	9	12	4
K2036407-M20	M 20	2.5	140	30	88	16	12	15	4

WALTER
SELECT

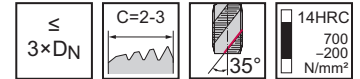
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® X-pert N

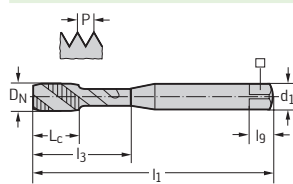


– For long-chipping materials



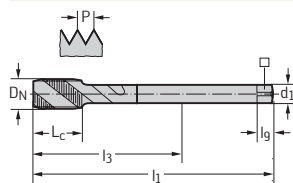
	P	M	K	N	S	H	O
uncoated				●●	●		●

DIN 371



Designation uncoated	D _N	P mm	l ₁ mm	l _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
N20516-M1.6	M 1.6	0.35	40	6	6	2.5	2.1	5	2
N20516-M2	M 2	0.4	45	4	9	2.8	2.1	5	2
N20516-M2.3	M 2.3	0.4	45	4	12	2.8	2.1	5	2
N20516-M2.5	M 2.5	0.45	50	4	12.5	2.8	2.1	5	2
N20516-M3	M 3	0.5	56	6	18	3.5	2.7	6	2
N20516-M3.5	M 3.5	0.6	56	6.5	20	4	3	6	2
N20516-M4	M 4	0.7	63	7	21	4.5	3.4	6	2
N20516-M5	M 5	0.8	70	8	25	6	4.9	8	2
N20516-M6	M 6	1	80	10	30	6	4.9	8	2
N20516-M8	M 8	1.25	90	12	35	8	6.2	9	2
N20516-M10	M 10	1.5	100	15	39	10	8	11	2

DIN 376



Designation uncoated	D _N	P mm	l ₁ mm	l _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
N20566-M6	M 6	1	80	10	59	4.5	3.4	6	2
N20566-M8	M 8	1.25	90	12	67	6	4.9	8	2
N20566-M10	M 10	1.5	100	15	77	7	5.5	8	2
N20566-M12	M 12	1.75	110	16	83	9	7	10	3
N20566-M14	M 14	2	110	20	81	11	9	12	3
N20566-M16	M 16	2	110	20	68	12	9	12	3
N20566-M20	M 20	2.5	140	25	95	16	12	15	3

**WALTER
SELECT**

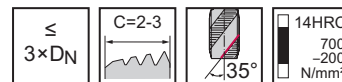
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® X-pert N



- Increased number of flutes
- For long-chipping materials



	P	M	K	N	S	H	O
uncoated				●●	●		●

DIN 371	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	N205166-M3	M 3	0.5	56	6	18	3.5	2.7	6	3
	N205166-M4	M 4	0.7	63	7	21	4.5	3.4	6	3
	N205166-M5	M 5	0.8	70	8	25	6	4.9	8	3
	N205166-M6	M 6	1	80	10	30	6	4.9	8	3
	N205166-M7	M 7	1	80	10	30	7	5.5	8	3
	N205166-M8	M 8	1.25	90	12	35	8	6.2	9	3
	N205166-M10	M 10	1.5	100	15	39	10	8	11	3

C1

WALTER
SELECT

●● Primary application ● Other application

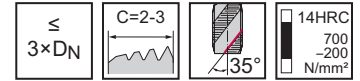
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® X-pert N

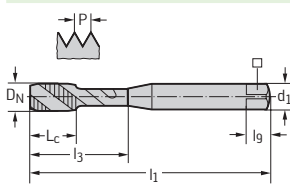


– For long-chipping materials



	P	M	K	N	S	H	O
uncoated				●●	●		●

DIN 371



Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
N20536-M2	M 2	0.4	45	4	9	2.8	2.1	5	2
N20536-M2.5	M 2.5	0.45	50	4	12.5	2.8	2.1	5	2
N20536-M3	M 3	0.5	56	6	18	3.5	2.7	6	2
N20536-M4	M 4	0.7	63	7	21	4.5	3.4	6	2
N20536-M5	M 5	0.8	70	8	25	6	4.9	8	2
N20536-M6	M 6	1	80	10	30	6	4.9	8	2
N20536-M8	M 8	1.25	90	12	35	8	6.2	9	2

C1

**WALTER
SELECT**

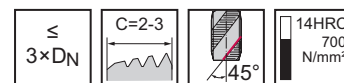
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® WLM Synchrospeed



- For long-chipping materials
- Only for synchronous machining (rigid tapping)



	P	M	K	N	S	H	O
uncoated	●	●	●	●	●	●	●
CRN	●	●	●	●	●	●	●

~DIN 371		Designation CRN	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□	l _g mm	N
			S20516-M3	M 3	0.5	70	6	18	6	4.9	8	2
		S2051604-M4	S20516-M4	M 4	0.7	70	7	21	6	4.9	8	2
		S2051604-M5	S20516-M5	M 5	0.8	70	8	25	6	4.9	8	2
		S2051604-M6	S20516-M6	M 6	1	80	10	30	6	4.9	8	2
		S2051604-M8	S20516-M8	M 8	1.25	90	12	35	8	6.2	9	2
		S2051604-M10	S20516-M10	M 10	1.5	100	15	39	10	8	11	2

C1

WALTER
SELECT

●● Primary application ● Other application

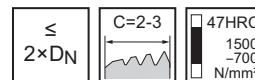
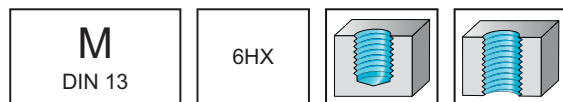
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® AP

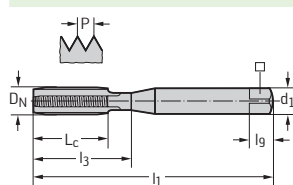


- For short-chipping materials
- For Ampco



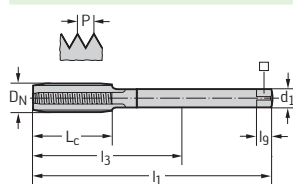
	P	M	K	N	S	H	O
NIT				●●	●		

DIN 371



Designation NIT	DN	P mm	l ₁ mm	l _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
20312-M3	M 3	0.5	56	9	18	3.5	2.7	6	3
20312-M4	M 4	0.7	63	12	21	4.5	3.4	6	3
20312-M5	M 5	0.8	70	13	25	6	4.9	8	3
20312-M6	M 6	1	80	15	30	6	4.9	8	3
20312-M8	M 8	1.25	90	18	35	8	6.2	9	3
20312-M10	M 10	1.5	100	20	39	10	8	11	3

DIN 376



Designation NIT	DN	P mm	l ₁ mm	l _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
20362-M12	M 12	1.75	110	23	83	9	7	10	4
20362-M16	M 16	2	110	25	68	12	9	12	4
20362-M20	M 20	2.5	140	30	95	16	12	15	4

C1

**WALTER
SELECT**

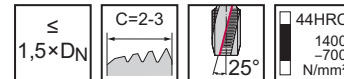
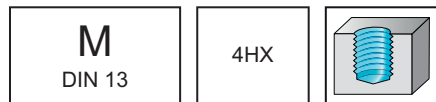
●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® Ni



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●				●●		

~DIN 371	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	204104-M2	M 2	0.4	45	8	8	2.8	2.1	5	3
	204104-M3	M 3	0.5	56	10	10	3.5	2.7	6	3
	204104-M3.5	M 3.5	0.6	56	12	12	4	3	6	3
	204104-M4	M 4	0.7	63	13	13	4.5	3.4	6	3
	204104-M5	M 5	0.8	70	16	16	6	4.9	8	3
	204104-M6	M 6	1	80	15	23	6	4.9	8	3
	204104-M8	M 8	1.25	90	18	29.5	8	6.2	9	3
	204104-M10	M 10	1.5	100	20	33.5	10	8	11	4

C1

WALTER
SELECT

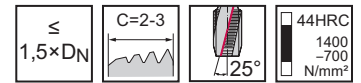
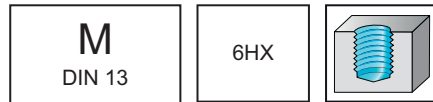
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® Ni



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●				●●		
TiCN	●				●●		

~DIN 371	Designation TiCN	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	20410206-M2	204102-M2	M 2	0.4	45	8	8	2.8	2.1	5	3
	20410206-M2.5	204102-M2.5	M 2.5	0.45	50	9	30	2.8	2.1	5	3
	20410206-M3	204102-M3	M 3	0.5	56	10	35	3.5	2.7	6	3
	20410206-M4	204102-M4	M 4	0.7	63	13	42	4.5	3.4	6	3
	20410206-M5	204102-M5	M 5	0.8	70	16	16	6	4.9	8	3
	20410206-M6	204102-M6	M 6	1	80	15	23	6	4.9	8	3
	20410206-M8	204102-M8	M 8	1.25	90	18	29.5	8	6.2	9	3
	20410206-M10	204102-M10	M 10	1.5	100	20	33.5	10	8	11	4

DIN 376	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	204602-M12	M 12	1.75	110	23	83	9	7	10	4
	204602-M14	M 14	2	110	25	81	11	9	12	4
	204602-M16	M 16	2	110	25	68	12	9	12	4
	204602-M18	M 18	2.5	125	30	81	14	11	14	5
	204602-M20	M 20	2.5	140	30	95	16	12	15	5

C1

**WALTER
SELECT**

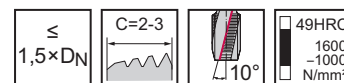
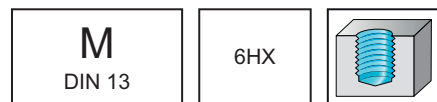
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® Ni 10



– For long- and short-chipping materials



	P	M	K	N	S	H	O
uncoated	●●			●	●●		
TIN	●●			●	●●		

~DIN 371	Designation TIN	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	2041015-M3	204101-M3	M 3	0.5	56	8	35	3.5	2.7	6	3
	2041015-M4	204101-M4	M 4	0.7	63	10.5	42	4.5	3.4	6	3
	2041015-M5	204101-M5	M 5	0.8	70	13	47	6	4.9	8	3
	2041015-M6	204101-M6	M 6	1	80	16	57	6	4.9	8	3
	2041015-M8	204101-M8	M 8	1.25	90	20.5	66	8	6.2	9	3
	2041015-M10	204101-M10	M 10	1.5	100	25.5	72	10	8	11	3
	2041015-M12	204101-M12	M 12	1.75	110	30.5	68	12	9	12	4
	2041015-M16	204101-M16	M 16	2	110	39.5	65	16	12	15	4

Without reduced neck after the thread

C1

WALTER
SELECT

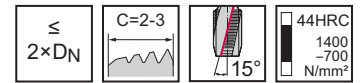
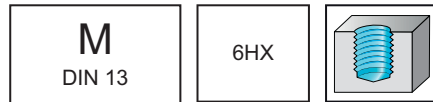
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® Ti



- Recommended with oil
- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●			●	●●		
TiCN	●●			●	●●		

~DIN 371		Designation TiCN	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
			20416-M1	M 1	0.25	40	5	5	2.5	2.1	5	3
			20416-M1.2	M 1.2	0.25	40	5	5	2.5	2.1	5	3
			20416-M1.4	M 1.4	0.3	40	5	5	2.5	2.1	5	3
			20416-M1.6	M 1.6	0.35	40	5	5	2.5	2.1	5	3
			20416-M1.8	M 1.8	0.35	40	5	5	2.5	2.1	5	3
		2041606-M2	20416-M2	M 2	0.4	45	8	8	2.8	2.1	5	3
			20416-M2.2	M 2.2	0.45	45	8	8	2.8	2.1	5	3
		2041606-M2.5	20416-M2.5	M 2.5	0.45	50	9	9	2.8	2.1	5	3
		2041606-M3	20416-M3	M 3	0.5	56	10	10	3.5	2.7	6	3
			20416-M3.5	M 3.5	0.6	56	12	12	4	3	6	3
		2041606-M4	20416-M4	M 4	0.7	63	13	13	4.5	3.4	6	3
			20416-M4.5	M 4.5	0.75	70	16	16	6	4.9	8	3
		2041606-M5	20416-M5	M 5	0.8	70	16	16	6	4.9	8	3
		2041606-M6	20416-M6	M 6	1	80	15	23	6	4.9	8	3
		2041606-M8	20416-M8	M 8	1.25	90	18	29.5	8	6.2	9	3
		2041606-M10	20416-M10	M 10	1.5	100	20	33.5	10	8	11	3

≤ M 1.4: 5HX

DIN 376		Designation TiCN	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
		2046606-M12	20466-M12	M 12	1.75	110	23	83	9	7	10	4
			20466-M14	M 14	2	110	25	81	11	9	12	4
	2046606-M16	20466-M16	M 16	2	110	25	68	12	9	12	15	4
		20466-M20	M 20	2.5	140	30	95	16	12	15	17	4
		20466-M24	M 24	3	160	36	113	18	14.5	17	21	5
		20466-M30	M 30	3.5	180	42	115	22	18	21	25	5
		20466-M36	M 36	4	200	48	131	28	22	25	25	5

**WALTER
SELECT**

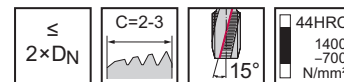
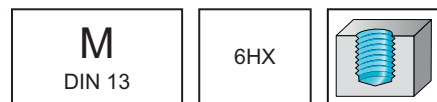
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® Ti Plus

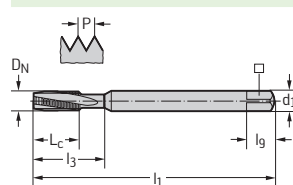


- Recommended with emulsion
- For long-chipping materials



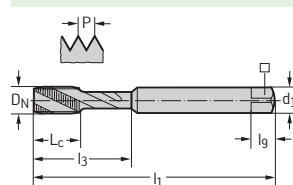
	P	M	K	N	S	H	O
ACN					●●		

~DIN 371



Designation ACN	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
2041663-M2	M 2	0.4	45	8	8	2.8	2.1	5	3
2041663-M2.5	M 2.5	0.45	50	9	30	2.8	2.1	5	3
2041663-M3	M 3	0.5	56	10	10	3.5	2.7	6	3
2041663-M3.5	M 3.5	0.6	56	12	12	4	3	6	3
2041663-M4	M 4	0.7	63	13	13	4.5	3.4	6	3
2041663-M5	M 5	0.8	70	16	16	6	4.9	8	3
2041663-M6	M 6	1	80	15	23	6	4.9	8	3
2041663-M8	M 8	1.25	90	18	29.5	8	6.2	9	3
2041663-M10	M 10	1.5	100	20	33.5	10	8	11	3

DIN 376



Designation ACN	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
2046663-M12	M 12	1.75	110	23	83	9	7	10	4
2046663-M16	M 16	2	110	25	68	12	9	12	4
2046663-M20	M 20	2.5	140	30	95	16	12	15	4

WALTER
SELECT

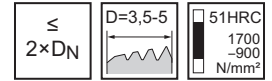
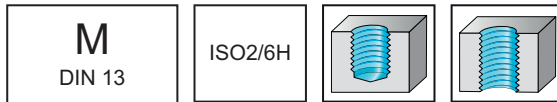
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® FT



– For short-chipping materials



	P	M	K	N	S	H	O
uncoated					●		●

~DIN 371	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	d ₁ h9 mm	□	l _g mm	N
	20316-M3	M 3	0.5	56	11	3.5	2.7	6	3
	20316-M4	M 4	0.7	63	13	4.5	3.4	6	5
	20316-M5	M 5	0.8	70	16	6	4.9	8	5
	20316-M6	M 6	1	80	20	6	4.9	8	5
	20316-M8	M 8	1.25	90	25	8	6.2	9	5
	20316-M10	M 10	1.5	100	30	10	8	11	5

Without reduced neck after the thread

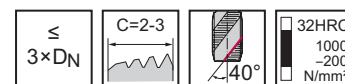
C1

**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® Uni

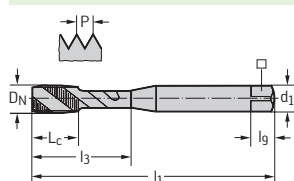


– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●		●	●			
VAP	●●		●	●			
TIN	●●		●	●			

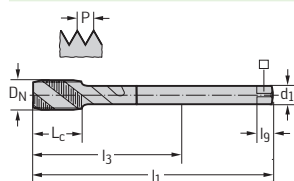
DIN 371



Designation TIN	Designation VAP	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
		7051770-M2	M 2	0.4	45	4	9	2.8	2.1	5	3
		7051770-M2.5	M 2.5	0.45	50	4	12.5	2.8	2.1	5	3
		7051770-M2.6	M 2.6	0.45	50	4	12.5	2.8	2.1	5	3
7051775-M3	7051773-M3	7051770-M3	M 3	0.5	56	6	18	3.5	2.7	6	3
		7051770-M3.5	M 3.5	0.6	56	6.5	20	4	3	6	3
7051775-M4	7051773-M4	7051770-M4	M 4	0.7	63	7	21	4.5	3.4	6	3
7051775-M5	7051773-M5	7051770-M5	M 5	0.8	70	8	25	6	4.9	8	3
7051775-M6	7051773-M6	7051770-M6	M 6	1	80	10	30	6	4.9	8	3
7051775-M7		7051770-M7	M 7	1	80	10	30	7	5.5	8	3
7051775-M8	7051773-M8	7051770-M8	M 8	1.25	90	12	35	8	6.2	9	3
7051775-M10	7051773-M10	7051770-M10	M 10	1.5	100	15	39	10	8	11	3

l_g dimensions in accordance with DIN 10

DIN 376



Designation TIN	Designation VAP	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
		7056770-M3	M 3	0.5	56	6	34	2.2	1.8	4	3
		7056770-M4	M 4	0.7	63	7	43	2.8	2.1	5	3
		7056770-M5	M 5	0.8	70	8	49	3.5	2.7	6	3
		7056770-M6	M 6	1	80	10	59	4.5	3.4	6	3
		7056770-M8	M 8	1.25	90	12	67	6	4.9	8	3
		7056770-M10	M 10	1.5	100	15	77	7	5.5	8	3
7056775-M12	7056773-M12	7056770-M12	M 12	1.75	110	16	83	9	7	10	3
7056775-M14	7056773-M14	7056770-M14	M 14	2	110	20	81	11	9	12	3
7056775-M16	7056773-M16	7056770-M16	M 16	2	110	20	68	12	9	12	4
7056775-M18		7056770-M18	M 18	2.5	125	25	81	14	11	14	4
7056775-M20		7056770-M20	M 20	2.5	140	25	95	16	12	15	4
		7056770-M22	M 22	2.5	140	25	93	18	14.5	17	4
		7056770-M24	M 24	3	160	30	113	18	14.5	17	4
		7056770-M27	M 27	3	160	30	97	20	16	19	4
		7056770-M30	M 30	3.5	180	35	115	22	18	21	4
		7056770-M33	M 33	3.5	180	35	113	25	20	23	4
		7056770-M36	M 36	4	200	40	131	28	22	25	4

l_g dimensions in accordance with DIN 10

WALTER
SELECT

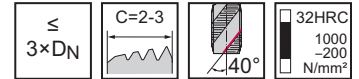
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® Uni

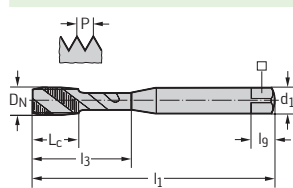


– For long-chipping materials



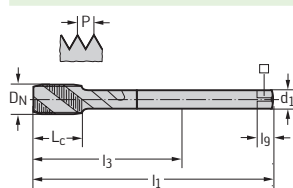
	P	M	K	N	S	H	O
uncoated	●●	●	●	●	●	●	●

DIN 371



Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
7053770-M2	M 2	0.4	45	4	9	2.8	2.1	5	3
7053770-M3	M 3	0.5	56	6	18	3.5	2.7	6	3
7053770-M4	M 4	0.7	63	7	21	4.5	3.4	6	3
7053770-M5	M 5	0.8	70	8	25	6	4.9	8	3
7053770-M6	M 6	1	80	10	30	6	4.9	8	3
7053770-M8	M 8	1.25	90	12	35	8	6.2	9	3
7053770-M10	M 10	1.5	100	15	39	10	8	11	3

DIN 376



Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
7058770-M12	M 12	1.75	110	16	83	9	7	10	3
7058770-M14	M 14	2	110	20	81	11	9	12	3
7058770-M16	M 16	2	110	20	68	12	9	12	4
7058770-M20	M 20	2.5	140	25	95	16	12	15	4

C1

**WALTER
SELECT**

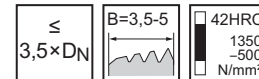
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Prototex® Eco Plus

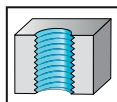


– For long-chipping materials

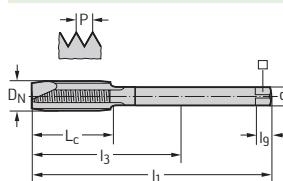


MF
DIN 13

6HX



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●	●●	●●	●●

DIN 374		Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	EP2126302-M6X0.75	MF 6x0.75	0.75	80	15	59	4.5	3.4	6	3	
	EP2126302-M8X1	MF 8x1	1	90	18	67	6	4.9	8	3	
	EP2126302-M10X1	MF 10x1	1	90	20	67	7	5.5	8	3	
	EP2126302-M10X1.25	MF 10x1.25	1.25	100	20	77	7	5.5	8	3	
	EP2126302-M12X1	MF 12x1	1	100	21	73	9	7	10	4	
	EP2126302-M12X1.25	MF 12x1.25	1.25	100	21	73	9	7	10	4	
	EP2126302-M12X1.5	MF 12x1.5	1.5	100	21	73	9	7	10	4	
	EP2126302-M14X1.5	MF 14x1.5	1.5	100	21	71	11	9	12	4	
	EP2126302-M16X1.5	MF 16x1.5	1.5	100	21	58	12	9	12	4	
	EP2126302-M18X1.5	MF 18x1.5	1.5	110	24	66	14	11	14	4	
	EP2126302-M20X1.5	MF 20x1.5	1.5	125	24	80	16	12	15	4	
	EP2126302-M22X1.5	MF 22x1.5	1.5	125	24	78	18	14.5	17	4	

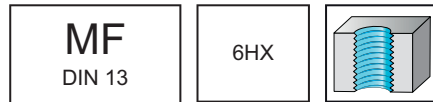
C1

HSS-E PM machine taps

Prototex® Eco Plus

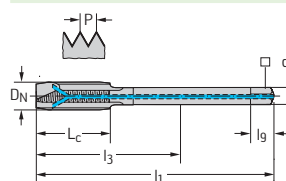


– For long-chipping materials



	P	M	K	N	S	H	O
THL	●	●	●	●	●	●	●

DIN 374



Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
EP2126342-M8X1	MF 8x1	1	90	18	67	6	4.9	5	3
EP2126342-M10X1	MF 10x1	1	90	20	67	7	5.5	8	3
EP2126342-M10X1.25	MF 10x1.25	1.25	100	20	77	7	5.5	8	3
EP2126342-M12X1	MF 12x1	1	100	21	73	9	7	10	4
EP2126342-M12X1.25	MF 12x1.25	1.25	100	21	73	9	7	10	4
EP2126342-M12X1.5	MF 12x1.5	1.5	100	21	73	9	7	10	4
EP2126342-M14X1.5	MF 14x1.5	1.5	100	21	71	11	9	12	4
EP2126342-M16X1.5	MF 16x1.5	1.5	100	21	58	12	9	12	4
EP2126342-M18X1.5	MF 18x1.5	1.5	110	24	66	14	11	14	4
EP2126342-M20X1.5	MF 20x1.5	1.5	125	24	80	16	12	12	4

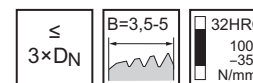
C1

HSS-E machine taps

TC216 Perform



– For long-chipping materials



	P	M	K	N	S	H	O
WY80AA (TiN)	●	●	●	●	●	●	●
WY80FC (VAP)	●	●	●	●	●	●	●

DIN 374	Designation WY80AA	Designation WY80FC	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC216-M8X1-L0-	TC216-M8X1-L0-	MF 8x1	1	90	18	67	6	4.9	8	3
	TC216-M10X1-L0-	TC216-M10X1-L0-	MF 10x1	1	90	20	67	7	5.5	8	3
	TC216-M10X1.25-L0-	TC216-M10X1.25-L0-	MF 10x1.25	1.25	100	20	77	7	5.5	8	3
	TC216-M12X1.25-L0-	TC216-M12X1.25-L0-	MF 12x1.25	1.25	100	21	73	9	7	10	4
	TC216-M12X1.5-L0-	TC216-M12X1.5-L0-	MF 12x1.5	1.5	100	21	73	9	7	10	4
	TC216-M14X1.5-L0-	TC216-M14X1.5-L0-	MF 14x1.5	1.5	100	21	71	11	9	12	4
	TC216-M16X1.5-L0-	TC216-M16X1.5-L0-	MF 16x1.5	1.5	100	21	58	12	9	12	4
	TC216-M18X1.5-L0-	TC216-M18X1.5-L0-	MF 18x1.5	1.5	110	24	66	14	11	14	4

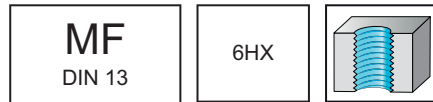
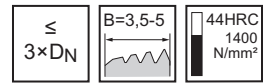
Ordering example for the grade WY80AA: TC216-M10X1-L0-WY80AA

HSS-E machine taps

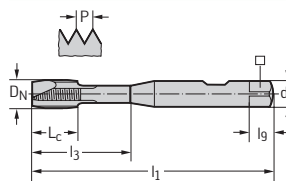
Prototex® Synchrospeed



- For long-chipping materials
- Only for synchronous machining (rigid tapping)



	P	M	K	N	S	H	O
THL	●	●	●	●	●	●	●
TIN	●	●	●	●	●	●	●

~DIN 371	Designation THL	Designation TIN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□	l ₉ mm	N
	S2126302-M8X1	S2126305-M8X1	MF 8x1	1	90	10	35	8	6.2	9	3
	S2126302-M10X1.25	S2126305-M10X1.25	MF 10x1.25	1.25	100	13	39	10	8	11	3
	S2126302-M12X1.25	S2126305-M12X1.25	MF 12x1.25	1.25	100	13	42	12	9	12	3
	S2126302-M12X1.5	S2126305-M12X1.5	MF 12x1.5	1.5	100	15	42	12	9	12	3
	S2126302-M14X1.5	S2126305-M14X1.5	MF 14x1.5	1.5	100	15	49	14	11	14	3
	S2126302-M16X1.5	S2126305-M16X1.5	MF 16x1.5	1.5	100	15	50	16	12	15	4

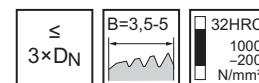
C1

HSS-E machine taps

Prototex® X-pert P

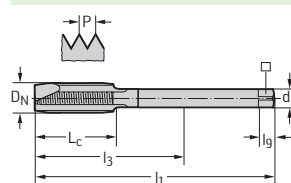


– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●	●	●	●	●	●	●
TIN	●	●	●	●	●	●	●

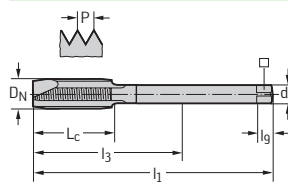
DIN 374



Designation TIN	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
P2136005-M4X0.5	P21360-M4X0.5	MF 4x0.5	0.5	63	12	43	2.8	2.1	5	3
P2136005-M5X0.5	P21360-M5X0.5	MF 5x0.5	0.5	70	13	49	3.5	2.7	6	3
P2136005-M6X0.5	P21360-M6X0.5	MF 6x0.5	0.5	80	15	59	4.5	3.4	6	3
P2136005-M6X0.75	P21360-M6X0.75	MF 6x0.75	0.75	80	15	59	4.5	3.4	6	3
P2136005-M8X0.5	P21360-M8X0.5	MF 8x0.5	0.5	80	15	57	6	4.9	8	3
P2136005-M8X0.75	P21360-M8X0.75	MF 8x0.75	0.75	80	15	57	6	4.9	8	3
P2136005-M8X1	P21360-M8X1	MF 8x1	1	90	18	67	6	4.9	8	3
	P21360-M10X0.5	MF 10x0.5	0.5	90	20	67	7	5.5	8	3
	P21360-M10X0.75	MF 10x0.75	0.75	90	20	67	7	5.5	8	3
P2136005-M10X1	P21360-M10X1	MF 10x1	1	90	20	67	7	5.5	8	3
	P21360-M9X1	MF 9x1	1	90	18	67	7	5.5	8	3
P2136005-M10X1.25	P21360-M10X1.25	MF 10x1.25	1.25	100	20	77	7	5.5	8	3
	P21360-M12X0.5	MF 12x0.5	0.5	100	21	73	9	7	10	4
P2136005-M12X1	P21360-M12X1	MF 12x1	1	100	21	73	9	7	10	4
	P21360-M12X1.25	MF 12x1.25	1.25	100	21	73	9	7	10	4
P2136005-M12X1.5	P21360-M12X1.5	MF 12x1.5	1.5	100	21	73	9	7	10	4
	P21360-M14X1	MF 14x1	1	100	21	71	11	9	12	4
	P21360-M14X1.25	MF 14x1.25	1.25	100	21	71	11	9	12	4
P2136005-M14X1.5	P21360-M14X1.5	MF 14x1.5	1.5	100	21	71	11	9	12	4
	P21360-M16X1	MF 16x1	1	100	21	58	12	9	12	4
P2136005-M16X1.5	P21360-M16X1.5	MF 16x1.5	1.5	100	21	58	12	9	12	4
	P21360-M18X1	MF 18x1	1	110	24	66	14	11	14	4
P2136005-M18X1.5	P21360-M18X1.5	MF 18x1.5	1.5	110	24	66	14	11	14	4
	P21360-M18X2	MF 18x2	2	125	30	81	14	11	14	4
	P21360-M20X1	MF 20x1	1	125	24	80	16	12	15	4
P2136005-M20X1.5	P21360-M20X1.5	MF 20x1.5	1.5	125	24	80	16	12	15	4
	P21360-M20X2	MF 20x2	2	140	30	95	16	12	15	4
	P21360-M22X1	MF 22x1	1	125	24	78	18	14.5	17	4
P2136005-M22X1.5	P21360-M22X1.5	MF 22x1.5	1.5	125	24	78	18	14.5	17	4
	P21360-M22X2	MF 22x2	2	140	26	93	18	14.5	17	4
	P21360-M24X1	MF 24x1	1	140	26	93	18	14.5	17	4
P2136005-M24X1.5	P21360-M24X1.5	MF 24x1.5	1.5	140	26	93	18	14.5	17	4
P2136005-M24X2	P21360-M24X2	MF 24x2	2	140	26	93	18	14.5	17	4
	P21360-M25X1.5	MF 25x1.5	1.5	140	26	93	18	14.5	17	4
	P21360-M26X1.5	MF 26x1.5	1.5	140	26	93	18	14.5	17	4

C1

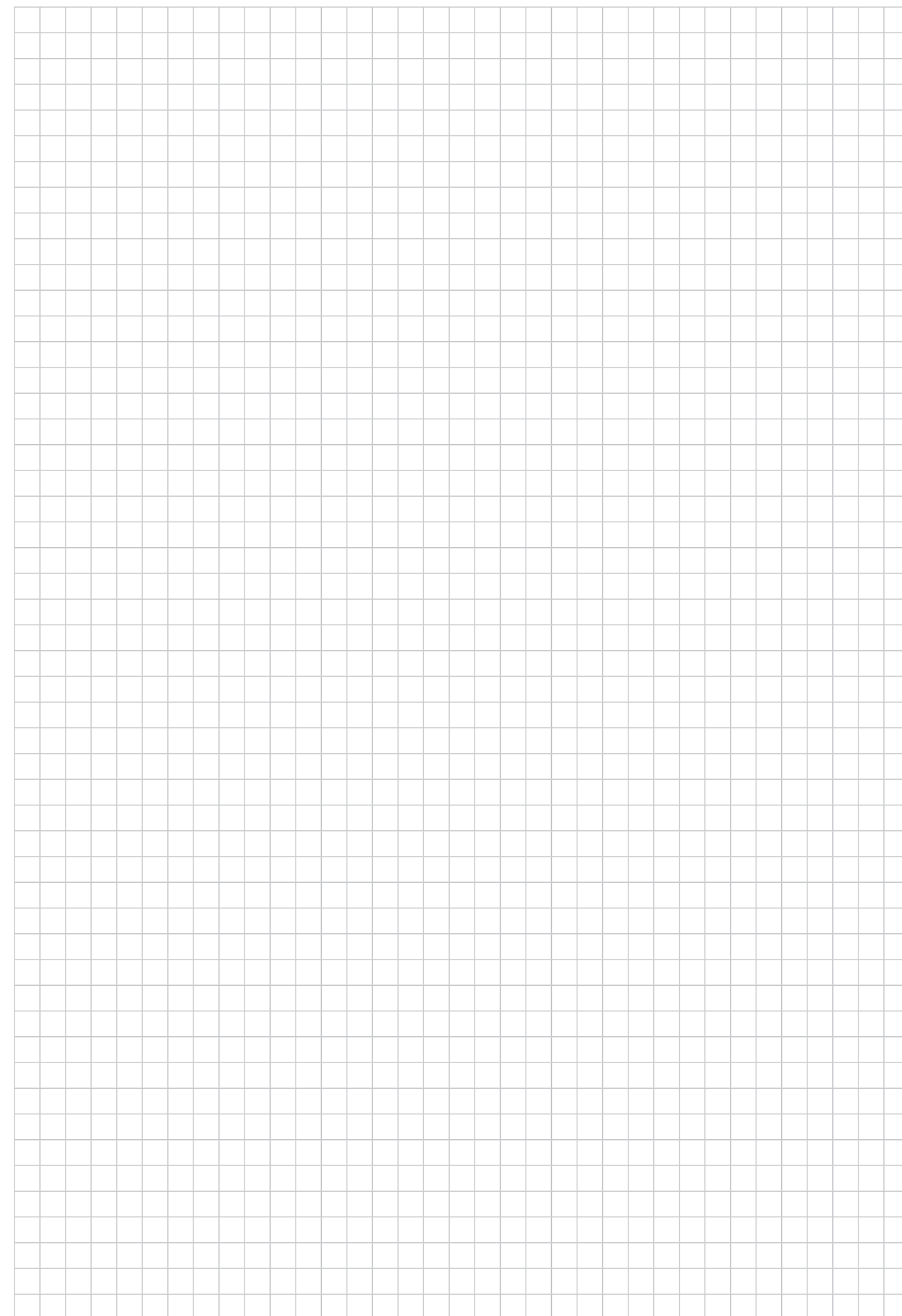
DIN 374



Designation TIN	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	P21360-M27X1	MF 27x1	1	140	26	77	20	16	19	4
	P21360-M27X1.5	MF 27x1.5	1.5	140	26	77	20	16	19	4
P2136005-M27X2	P21360-M27X2	MF 27x2	2	140	26	77	20	16	19	4
	P21360-M28X1.5	MF 28x1.5	1.5	140	26	77	20	16	19	4
	P21360-M30X1	MF 30x1	1	150	26	85	22	18	21	4
P2136005-M30X1.5	P21360-M30X1.5	MF 30x1.5	1.5	150	26	85	22	18	21	4
P2136005-M30X2	P21360-M30X2	MF 30x2	2	150	26	85	22	18	21	4
	P21360-M32X1.5	MF 32x1.5	1.5	150	26	85	22	18	21	4
	P21360-M32X2	MF 32x2	2	150	26	85	22	18	21	4
	P21360-M33X1.5	MF 33x1.5	1.5	160	28	93	25	20	23	4
	P21360-M33X2	MF 33x2	2	160	28	93	25	20	23	4
	P21360-M35X1.5	MF 35x1.5	1.5	170	28	101	28	22	25	4
	P21360-M36X1.5	MF 36x1.5	1.5	170	28	101	28	22	25	4
	P21360-M36X2	MF 36x2	2	170	28	101	28	22	25	4
	P21360-M38X1.5	MF 38x1.5	1.5	170	28	101	28	22	25	5
	P21360-M36X3	MF 36x3	3	200	39	131	28	22	25	4
	P21360-M39X2	MF 39x2	2	170	28	72	32	24	27	4
	P21360-M40X1.5	MF 40x1.5	1.5	170	28	72	32	24	27	5
	P21360-M40X2	MF 40x2	2	170	28	72	32	24	27	4
	P21360-M42X1.5	MF 42x1.5	1.5	170	28	72	32	24	27	5
	P21360-M42X2	MF 42x2	2	170	28	72	32	24	27	4
	P21360-M42X3	MF 42x3	3	200	42	102	32	24	27	4
	P21360-M45X1.5	MF 45x1.5	1.5	180	28	77	36	29	32	5
	P21360-M48X1.5	MF 48x1.5	1.5	190	28	87	36	29	32	5
	P21360-M50X1.5	MF 50x1.5	1.5	190	28	87	36	29	32	5
	P21360-M48X3	MF 48x3	3	225	45	122	36	29	32	4

C1

C1

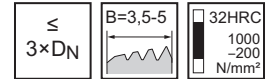


HSS-E machine taps

Prototex® X-pert P

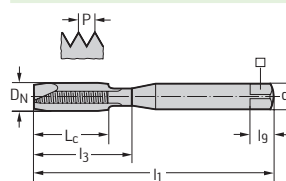


- Reduced number of flutes
- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 371



Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
P21210-M2X0.25	MF 2x0.25	0.25	45	6	9	2.8	2.1	5	2
P21210-M2.2X0.25	MF 2.2x0.25	0.25	45	7	12	2.8	2.1	5	2
P21210-M2.3X0.25	MF 2.3x0.25	0.25	45	7	12	2.8	2.1	5	2
P21210-M2.5X0.35	MF 2.5x0.35	0.35	50	8	12.5	2.8	2.1	5	2
P21210-M3X0.25	MF 3x0.25	0.25	56	6	18	3.5	2.7	6	2
P21210-M3X0.35	MF 3x0.35	0.35	56	9	18	3.5	2.7	6	2
P21210-M3.5X0.35	MF 3.5x0.35	0.35	56	11	20	4	3	6	2
P21210-M4X0.35	MF 4x0.35	0.35	63	12	21	4.5	3.4	6	2
P21210-M4X0.5	MF 4x0.5	0.5	63	12	21	4.5	3.4	6	2
P21210-M4.5X0.5	MF 4.5x0.5	0.5	70	13	25	6	4.9	8	2
P21210-M5X0.5	MF 5x0.5	0.5	70	13	25	6	4.9	8	3
P21210-M5X0.75	MF 5x0.75	0.75	70	13	25	6	4.9	8	3
P21210-M6X0.5	MF 6x0.5	0.5	80	15	30	6	4.9	8	3
P21210-M6X0.75	MF 6x0.75	0.75	80	15	30	6	4.9	8	3
P21210-M7X0.75	MF 7x0.75	0.75	80	15	30	7	5.5	8	3
P21210-M8X1	MF 8x1	1	90	18	35	8	6.2	9	3
P21210-M10X1	MF 10x1	1	90	20	39	10	8	11	3

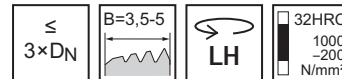
C1

HSS-E machine taps

Prototex® X-pert P

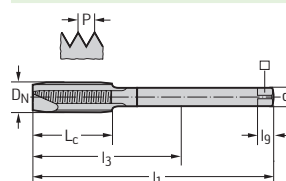


– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●	●	●	●	●	●

DIN 374



Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
P212608-M8X1	MF 8x1	1	90	18	67	6	4.9	8	3
P212608-M10X1	MF 10x1	1	90	20	67	7	5.5	8	3
P212608-M12X1	MF 12x1	1	100	21	73	9	7	10	4
P212608-M12X1.5	MF 12x1.5	1.5	100	21	73	9	7	10	4
P212608-M14X1.5	MF 14x1.5	1.5	100	21	71	11	9	12	4
P212608-M16X1	MF 16x1	1	100	21	58	12	9	12	4
P212608-M16X1.5	MF 16x1.5	1.5	100	21	58	12	9	12	4
P212608-M18X1.5	MF 18x1.5	1.5	110	24	66	14	11	14	4
P212608-M20X1.5	MF 20x1.5	1.5	125	24	80	16	12	15	4

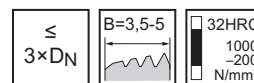
C1

HSS-E machine taps

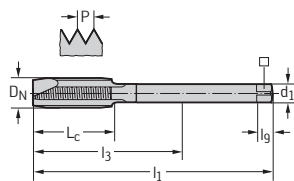
Prototex® X-pert P



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●	●	●	●	●	●	●
TIN	●	●	●	●	●	●	●

DIN 374		Designation TIN	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
			P21380-M4X0.5	MF 4x0.5	0.5	63	12	43	2.8	2.1	5	3
			P21380-M5X0.5	MF 5x0.5	0.5	70	13	49	3.5	2.7	6	3
			P21380-M6X0.5	MF 6x0.5	0.5	80	15	59	4.5	3.4	6	3
			P21380-M6X0.75	MF 6x0.75	0.75	80	15	59	4.5	3.4	6	3
			P21380-M8X0.75	MF 8x0.75	0.75	80	15	57	6	4.9	8	3
	P2138005-M8X1	P21380-M8X1	MF 8x1	1	90	18	67	6	4.9	8	8	3
	P2138005-M10X1	P21380-M10X1	MF 10x1	1	90	20	67	7	5.5	8	8	3
		P21380-M10X1.25	MF 10x1.25	1.25	100	20	77	7	5.5	8	8	3
	P2138005-M12X1	P21380-M12X1	MF 12x1	1	100	21	73	9	7	10	10	4
		P21380-M12X1.25	MF 12x1.25	1.25	100	21	73	9	7	10	10	4
	P2138005-M12X1.5	P21380-M12X1.5	MF 12x1.5	1.5	100	21	73	9	7	10	10	4
	P2138005-M14X1.5	P21380-M14X1.5	MF 14x1.5	1.5	100	21	71	11	9	12	12	4
	P2138005-M16X1.5	P21380-M16X1.5	MF 16x1.5	1.5	100	21	58	12	9	12	12	4
		P21380-M18X1.5	MF 18x1.5	1.5	110	24	66	14	11	14	14	4
		P21380-M20X1.5	MF 20x1.5	1.5	125	24	80	16	12	15	15	4
		P21380-M22X1.5	MF 22x1.5	1.5	125	24	78	18	14.5	17	17	4
		P21380-M24X1.5	MF 24x1.5	1.5	140	26	93	18	14.5	17	17	4

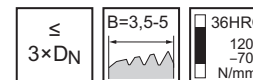
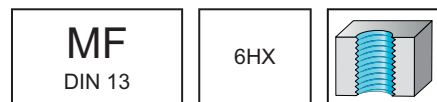
C1

HSS-E machine taps

Prototex® X-pert M



– For long-chipping materials



	P	M	K	N	S	H	O
TIN	●	●●	●	●	●	●	●

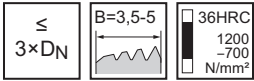
DIN 371	Designation TIN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	M2121305-M5X0.5	MF 5x0.5	0.5	70	13	25	6	4.9	8	3
	M2121305-M6X0.5	MF 6x0.5	0.5	80	15	30	6	4.9	8	3
	M2121305-M6X0.75	MF 6x0.75	0.75	80	15	30	6	4.9	8	3

DIN 374	Designation TIN	Designation VAP	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	M2126305-M8X0.5	M21263-M8X0.5	MF 8x0.5	0.5	80	15	57	6	4.9	8	3
	M2126305-M8X0.75	M21263-M8X0.75	MF 8x0.75	0.75	80	15	57	6	4.9	8	3
	M2126305-M8X1	M21263-M8X1	MF 8x1	1	90	18	67	6	4.9	8	3
		M21263-M10X0.75	MF 10x0.75	0.75	90	20	67	7	5.5	8	3
	M2126305-M10X1	M21263-M10X1	MF 10x1	1	90	20	67	7	5.5	8	3
	M2126305-M10X1.25	M21263-M10X1.25	MF 10x1.25	1.25	100	20	77	7	5.5	8	3
		M21263-M12X1	MF 12x1	1	100	21	73	9	7	10	4
		M21263-M12X1.25	MF 12x1.25	1.25	100	21	73	9	7	10	4
	M2126305-M12X1.5	M21263-M12X1.5	MF 12x1.5	1.5	100	21	73	9	7	10	4
		M21263-M14X1	MF 14x1	1	100	21	71	11	9	12	4
	M2126305-M14X1.5	M21263-M14X1.5	MF 14x1.5	1.5	100	21	71	11	9	12	4
		M21263-M16X1	MF 16x1	1	100	21	58	12	9	12	4
	M2126305-M16X1.5	M21263-M16X1.5	MF 16x1.5	1.5	100	21	58	12	9	12	4
	M2126305-M18X1.5	M21263-M18X1.5	MF 18x1.5	1.5	110	24	66	14	11	14	4
	M2126305-M20X1.5	M21263-M20X1.5	MF 20x1.5	1.5	125	24	80	16	12	15	4
		M21263-M22X1.5	MF 22x1.5	1.5	125	24	78	18	14.5	17	4
		M21263-M24X1.5	MF 24x1.5	1.5	140	26	93	18	14.5	17	4

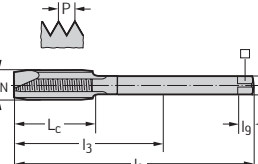
HSS-E machine taps
Prototex® X-pert M



– For long-chipping materials



	P	M	K	N	S	H	O
TIN	●	●●					

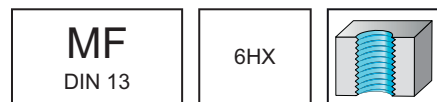
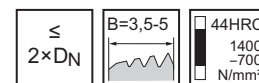
DIN 374		Designation TIN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	M2128305-M12X1.5	MF 12x1.5	1.5	100	21	73	9	7	10	4	
	M2128305-M14X1.5	MF 14x1.5	1.5	100	21	71	11	9	12	4	
	M2128305-M16X1.5	MF 16x1.5	1.5	100	21	58	12	9	12	4	
	M2128305-M20X1.5	MF 20x1.5	1.5	125	24	80	16	12	15	4	
	M2128305-M24X1.5	MF 24x1.5	1.5	140	26	93	18	14.5	17	4	

HSS-E PM machine taps

Prototex® TiNi



- Recommended with oil
- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●	●	●	●	●	●	●
TiCN	●	●	●	●	●	●	●

~DIN 371	Designation TiCN	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	21216106-M8X0.75	212161-M8X0.75	MF 8x0.75	0.75	80	10	29	8	6.2	9	3
	21216106-M8X1	212161-M8X1	MF 8x1	1	90	12	29	8	6.2	9	3
		212161-M10X1	MF 10x1	1	90	14	33	10	8	11	3

DIN 374	Designation TiCN	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	21266106-M10X1.25	212661-M10X1.25	MF 10x1.25	1.25	100	20	77	7	5.5	8	3
	21266106-M12X1	212661-M12X1	MF 12x1	1	100	16	73	9	7	10	4
	21266106-M12X1.25	212661-M12X1.25	MF 12x1.25	1.25	100	21	73	9	7	10	4
	21266106-M12X1.5	212661-M12X1.5	MF 12x1.5	1.5	100	21	73	9	7	10	4
	21266106-M14X1	212661-M14X1	MF 14x1	1	100	16	71	11	9	12	4
	21266106-M14X1.5	212661-M14X1.5	MF 14x1.5	1.5	100	21	71	11	9	12	4
	21266106-M16X1	212661-M16X1	MF 16x1	1	100	18	58	12	9	12	4

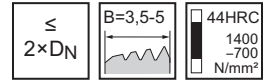
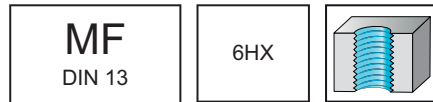
C1

HSS-E PM machine taps

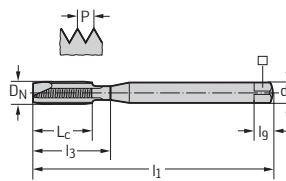
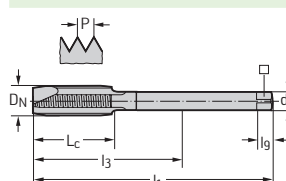
Prototex® TiNi Plus



- Recommended with emulsion
- For long-chipping materials



	P	M	K	N	S	H	O
ACN					●●		

~DIN 371		Designation ACN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	2121763-M6X0.75	MF 6x0.75		0.75	80	15	23	6	4.9	8	3
	2121763-M8X0.75	MF 8x0.75		0.75	90	18	29.5	8	6.2	9	3
	2121763-M8X1	MF 8x1		1	90	18	29.5	8	6.2	9	3
	2121763-M10X1	MF 10x1		1	100	20	33.5	10	8	11	3
DIN 374		Designation ACN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	2126763-M12X1	MF 12x1		1	100	21	73	9	7	10	4
	2126763-M12X1.5	MF 12x1.5		1.5	100	21	73	9	7	10	4
	2126763-M14X1.5	MF 14x1.5		1.5	100	21	71	11	9	12	4

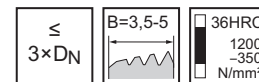
C1

HSS-E PM machine taps

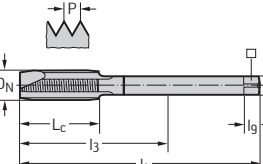
Prototex® Sprint



– For long-chipping materials



	P	M	K	N	S	H	O
TIN	●	●	●	●	●	●	●

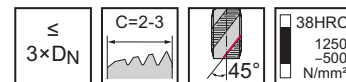
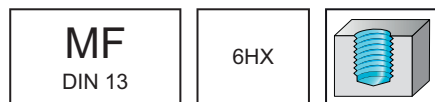
DIN 374										
	Designation		P	l ₁	L _c	l ₃	d ₁ h9		l _g	N
	TIN	D _N	mm	mm	mm	mm	mm		mm	
	7126365-M8X1	MF 8x1	1	90	18	62	6	4.9	8	3
	7126365-M10X1	MF 10x1	1	90	20	62	7	5.5	8	3
	7126365-M12X1.5	MF 12x1.5	1.5	100	21	66	9	7	10	4
	7126365-M12X1.25	MF 12x1.25	1.25	100	21	67	9	7	10	4
	7126365-M14X1.5	MF 14x1.5	1.5	100	21	64	11	9	12	4
7126365-M16X1.5	MF 16x1.5	1.5	100	21	51	12	9	12	4	
7126365-M20X1.5	MF 20x1.5	1.5	125	24	73	16	12	15	4	

HSS-E PM machine taps

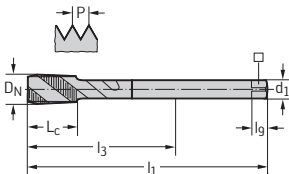
Paradur® Eco Plus



– For long-chipping materials



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●	●●	●●	●●

DIN 374		Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	EP2156302-M6X0.75	MF 6x0.75	0.75	80	10	59	4.5	3.4	6	3	
	EP2156302-M8X1	MF 8x1	1	90	12	67	6	4.9	8	3	
	EP2156302-M10X1	MF 10x1	1	90	12	67	7	5.5	8	3	
	EP2156302-M10X1.25	MF 10x1.25	1.25	100	15	77	7	5.5	8	3	
	EP2156302-M12X1	MF 12x1	1	100	13	73	9	7	10	4	
	EP2156302-M12X1.25	MF 12x1.25	1.25	100	13	73	9	7	10	4	
	EP2156302-M12X1.5	MF 12x1.5	1.5	100	13	73	9	7	10	4	
	EP2156302-M14X1.25	MF 14x1.25	1.25	100	15	71	11	9	12	4	
	EP2156302-M14X1.5	MF 14x1.5	1.5	100	15	71	11	9	12	4	
	EP2156302-M16X1.5	MF 16x1.5	1.5	100	15	58	12	9	12	4	
	EP2156302-M18X1.5	MF 18x1.5	1.5	110	17	66	14	11	14	4	
	EP2156302-M20X1.5	MF 20x1.5	1.5	125	17	80	16	12	15	4	
	EP2156302-M22X1.5	MF 22x1.5	1.5	125	18	78	18	14.5	17	4	

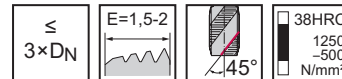
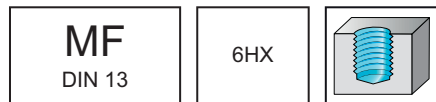
C1

HSS-E PM machine taps

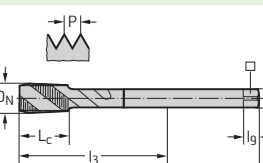
Paradur® Eco Plus



– For long-chipping materials



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●	●●	●●	●●

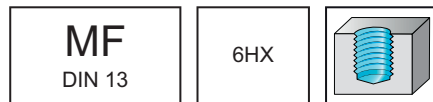
DIN 374										
	Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	EP2156362-M8X1	MF 8x1	1	90	12	67	6	4.9	8	4
	EP2156362-M10X1	MF 10x1	1	90	12	67	7	5.5	8	4
	EP2156362-M12X1.5	MF 12x1.5	1.5	100	13	73	9	7	10	4
	EP2156362-M14X1.5	MF 14x1.5	1.5	100	15	71	11	9	12	4

HSS-E PM machine taps

Paradur® Eco Plus

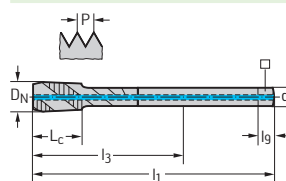


– For long-chipping materials



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●	●●	●●	●●

DIN 374



Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
EP2156312-M8X1	MF 8x1	1	90	12	67	6	4.9	8	3
EP2156312-M10X1	MF 10x1	1	90	12	67	7	5.5	8	3
EP2156312-M10X1.25	MF 10x1.25	1.25	100	15	77	7	5.5	8	3
EP2156312-M12X1	MF 12x1	1	100	13	73	9	7	10	4
EP2156312-M12X1.25	MF 12x1.25	1.25	100	13	73	9	7	10	4
EP2156312-M12X1.5	MF 12x1.5	1.5	100	13	73	9	7	10	4
EP2156312-M14X1.5	MF 14x1.5	1.5	100	15	71	11	9	12	4
EP2156312-M16X1.5	MF 16x1.5	1.5	100	15	58	12	9	12	4
EP2156312-M18X1.5	MF 18x1.5	1.5	110	17	66	14	11	14	4
EP2156312-M20X1.5	MF 20x1.5	1.5	125	17	80	16	12	15	4

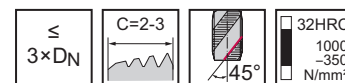
C1

HSS-E machine taps

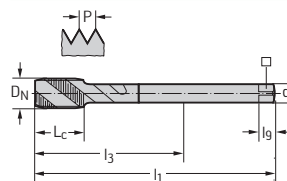
TC115 Perform



– For long-chipping materials



	P	M	K	N	S	H	O
WY80AA (TiN)	●	●	●	●	●	●	●
WY80FC (VAP)	●	●	●	●	●	●	●

DIN 374	Designation WY80AA	Designation WY80FC	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	TC115-M8X1-L0-	TC115-M8X1-L0-	MF 8x1	1	90	12	67	6	4.9	8	3
	TC115-M10X1-L0-	TC115-M10X1-L0-	MF 10x1	1	90	12	67	7	5.5	8	3
	TC115-M10X1.25-L0-	TC115-M10X1.25-L0-	MF 10x1.25	1.25	100	15	77	7	5.5	8	3
	TC115-M12X1.25-L0-	TC115-M12X1.25-L0-	MF 12x1.25	1.25	100	13	73	9	7	10	4
	TC115-M12X1.5-L0-	TC115-M12X1.5-L0-	MF 12x1.5	1.5	100	13	73	9	7	10	4
	TC115-M14X1.5-L0-	TC115-M14X1.5-L0-	MF 14x1.5	1.5	100	15	71	11	9	12	4
	TC115-M16X1.5-L0-	TC115-M16X1.5-L0-	MF 16x1.5	1.5	100	15	58	12	9	12	4
	TC115-M18X1.5-L0-	TC115-M18X1.5-L0-	MF 18x1.5	1.5	110	17	66	14	11	14	4

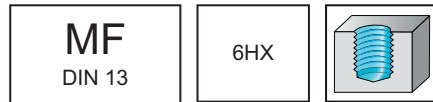
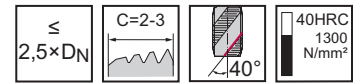
Ordering example for the grade WY80AA: TC115-M10X1-L0-WY80AA

HSS-E machine taps

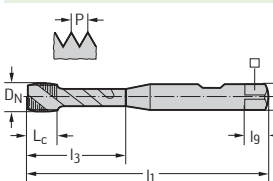
Paradur® Synchrospeed



- For long-chipping materials
- Only for synchronous machining (rigid tapping)



	P	M	K	N	S	H	O
THL	●	●	●	●	●	●	●
TIN/VAP	●	●	●	●	●	●	●

~DIN 371	Designation THL	Designation TIN/VAP	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm		l ₉ mm	N
	S2156302-M8X1	S2156305-M8X1	MF 8x1	1	90	10.5	35	8	6.2	9	3
	S2156302-M10X1	S2156305-M10X1	MF 10x1	1	90	10.5	39	10	8	11	3
	S2156302-M10X1.25	S2156305-M10X1.25	MF 10x1.25	1.25	100	13.5	39	10	8	11	3
	S2156302-M12X1.25		MF 12x1.25	1.25	100	13.5	42	12	9	12	3
	S2156302-M12X1.5	S2156305-M12X1.5	MF 12x1.5	1.5	100	16	42	12	9	12	3
	S2156302-M14X1.5	S2156305-M14X1.5	MF 14x1.5	1.5	100	16	49	14	11	14	4
	S2156302-M16X1.5	S2156305-M16X1.5	MF 16x1.5	1.5	100	16	50	16	12	15	4

C1

HSS-E machine taps

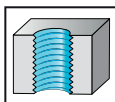
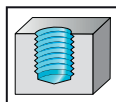
Paradur® H



– For long- and short-chipping materials

MF
DIN 13

ISO2/6H

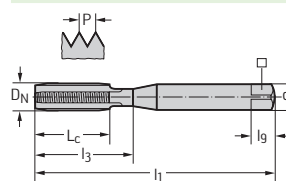


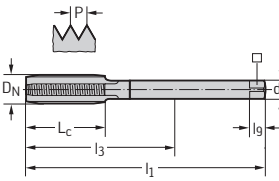
$\leq$
 $1,5 \times D_N$

$C=2-3$

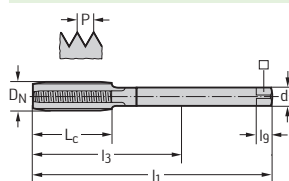
32HRC
1000
~200
N/mm²

	P	M	K	N	S	H	O
uncoated			●	●●			●

DIN 371 	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	N
	21311-M2.2X0.25	MF 2.2x0.25	0.25	45	7	12	2.8	3
	21311-M2X0.25	MF 2x0.25	0.25	45	6	9	2.8	3
	21311-M2.5X0.35	MF 2.5x0.35	0.35	50	8	12.5	2.8	3
	21311-M3X0.35	MF 3x0.35	0.35	56	9	18	3.5	3
	21311-M3.5X0.35	MF 3.5x0.35	0.35	56	11	20	4	3
	21311-M4X0.35	MF 4x0.35	0.35	63	12	21	4.5	3
	21311-M5X0.35	MF 5x0.35	0.35	70	13	25	6	3
	21311-M4X0.5	MF 4x0.5	0.5	63	12	21	4.5	3
	21311-M5X0.5	MF 5x0.5	0.5	70	13	25	6	3
21311-M6X0.75	MF 6x0.75	0.75	80	15	30	6	3	
21311-M7X0.75	MF 7x0.75	0.75	80	15	30	7	3	

DIN 374		Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	N
		21361-M4X0.5	MF 4x0.5	0.5	63	12	43	2.8	3
		21361-M5X0.5	MF 5x0.5	0.5	70	13	49	3.5	3
		21361-M8X0.5	MF 8x0.5	0.5	80	15	57	6	3
		21361-M8X0.75	MF 8x0.75	0.75	80	15	57	6	3
		21361-M7X0.5	MF 7x0.5	0.5	80	15	58	5.5	3
		21361-M7X0.75	MF 7x0.75	0.75	80	15	58	5.5	3
		21361-M15X1.5	MF 15x1.5	1.5	100	21	58	12	4
		21361-M16X1	MF 16x1	1	100	21	58	12	4
		21361-M16X1.5	MF 16x1.5	1.5	100	21	58	12	4
		21361-M6X0.5	MF 6x0.5	0.5	80	15	59	4.5	3
		21361-M6X0.75	MF 6x0.75	0.75	80	15	59	4.5	3
		21361-M52X1.5	MF 52x1.5	1.5	190	29	60	40	6
		21361-M52X2	MF 52x2	2	190	32	60	40	6
		21361-M11X1	MF 11x1	1	90	20	66	8	3
		21361-M18X1	MF 18x1	1	110	24	66	14	4
		21361-M18X1.5	MF 18x1.5	1.5	110	24	66	14	4
		21361-M8X1	MF 8x1	1	90	18	67	6	3
		21361-M10X0.5	MF 10x0.5	0.5	90	20	67	7	3
		21361-M10X0.75	MF 10x0.75	0.75	90	20	67	7	3
		21361-M10X1	MF 10x1	1	90	20	67	7	3
		21361-M9X0.5	MF 9x0.5	0.5	90	15	67	7	3
		21361-M9X0.75	MF 9x0.75	0.75	90	15	67	7	3
		21361-M9X1	MF 9x1	1	90	18	67	7	3
		21361-M14X1	MF 14x1	1	100	21	71	11	4
		21361-M14X1.25	MF 14x1.25	1.25	100	21	71	11	4
		21361-M14X1.5	MF 14x1.5	1.5	100	21	71	11	4
		21361-M39X1.5	MF 39x1.5	1.5	170	28	72	32	6
		21361-M40X1.5	MF 40x1.5	1.5	170	28	72	32	6
		21361-M40X2	MF 40x2	2	170	28	72	32	4
		21361-M42X1.5	MF 42x1.5	1.5	170	28	72	32	6
		21361-M42X2	MF 42x2	2	170	28	72	32	4
		21361-M12X0.5	MF 12x0.5	0.5	100	21	73	9	3
		21361-M12X0.75	MF 12x0.75	0.75	100	21	73	9	4
		21361-M12X1	MF 12x1	1	100	21	73	9	4
		21361-M12X1.25	MF 12x1.25	1.25	100	21	73	9	4

DIN 374



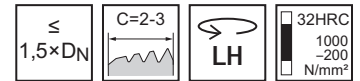
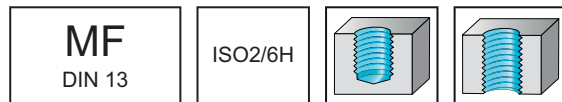
Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	N
21361-M12X1.5	MF 12x1.5	1.5	100	21	73	9	4
21361-M10X1.25	MF 10x1.25	1.25	100	20	77	7	3
21361-M27X1	MF 27x1	1	140	26	77	20	4
21361-M27X1.5	MF 27x1.5	1.5	140	26	77	20	4
21361-M27X2	MF 27x2	2	140	26	77	20	4
21361-M28X1.5	MF 28x1.5	1.5	140	26	77	20	4
21361-M28X2	MF 28x2	2	140	26	77	20	4
21361-M45X1.5	MF 45x1.5	1.5	180	28	77	36	6
21361-M45X2	MF 45x2	2	180	30	77	36	6
21361-M22X1	MF 22x1	1	125	24	78	18	4
21361-M22X1.5	MF 22x1.5	1.5	125	24	78	18	4
21361-M20X1	MF 20x1	1	125	24	80	16	4
21361-M20X1.5	MF 20x1.5	1.5	125	24	80	16	4
21361-M18X2	MF 18x2	2	125	30	81	14	4
21361-M30X1	MF 30x1	1	150	26	85	22	4
21361-M30X1.5	MF 30x1.5	1.5	150	26	85	22	4
21361-M30X2	MF 30x2	2	150	26	85	22	4
21361-M32X1.5	MF 32x1.5	1.5	150	26	85	22	4
21361-M48X1.5	MF 48x1.5	1.5	190	28	87	36	6
21361-M48X2	MF 48x2	2	190	30	87	36	6
21361-M50X1.5	MF 50x1.5	1.5	190	28	87	36	6
21361-M22X2	MF 22x2	2	140	26	93	18	4
21361-M24X1	MF 24x1	1	140	26	93	18	4
21361-M24X1.5	MF 24x1.5	1.5	140	26	93	18	4
21361-M24X2	MF 24x2	2	140	26	93	18	4
21361-M25X1.5	MF 25x1.5	1.5	140	26	93	18	4
21361-M26X1.5	MF 26x1.5	1.5	140	26	93	18	4
21361-M33X1.5	MF 33x1.5	1.5	160	28	93	25	4
21361-M33X2	MF 33x2	2	160	28	93	25	4
21361-M20X2	MF 20x2	2	140	30	95	16	4
21361-M52X3	MF 52x3	3	225	45	95	40	6
21361-M45X3	MF 45x3	3	200	42	97	36	4
21361-M35X1.5	MF 35x1.5	1.5	170	28	101	28	4
21361-M36X1.5	MF 36x1.5	1.5	170	28	101	28	4
21361-M36X2	MF 36x2	2	170	28	101	28	4
21361-M38X1.5	MF 38x1.5	1.5	170	28	101	28	6
21361-M39X3	MF 39x3	3	200	42	102	32	4
21361-M42X3	MF 42x3	3	200	42	102	32	4
21361-M48X3	MF 48x3	3	225	45	122	36	4
21361-M36X3	MF 36x3	3	200	39	131	28	4

HSS-E machine taps

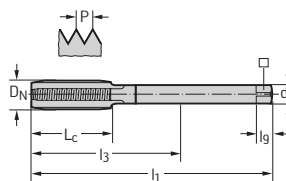
Paradur® H



– For long- and short-chipping materials



	P	M	K	N	S	H	O
uncoated			●	●●			●

DIN 374	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	N
	21368-M4X0.5	MF 4x0.5	0.5	63	12	43	2.8	3
	21368-M5X0.5	MF 5x0.5	0.5	70	13	49	3.5	3
	21368-M6X0.5	MF 6x0.5	0.5	80	15	59	4.5	3
	21368-M8X0.5	MF 8x0.5	0.5	80	15	57	6	3
	21368-M6X0.75	MF 6x0.75	0.75	80	15	59	4.5	3
	21368-M8X0.75	MF 8x0.75	0.75	80	15	57	6	3
	21368-M10X0.75	MF 10x0.75	0.75	90	20	67	7	3
	21368-M8X1	MF 8x1	1	90	18	67	6	3
	21368-M10X1	MF 10x1	1	90	20	67	7	3
	21368-M12X1	MF 12x1	1	100	21	73	9	4
	21368-M14X1	MF 14x1	1	100	21	71	11	4
	21368-M16X1	MF 16x1	1	100	21	58	12	4
	21368-M12X1.5	MF 12x1.5	1.5	100	21	73	9	4
	21368-M14X1.5	MF 14x1.5	1.5	100	21	71	11	4
	21368-M16X1.5	MF 16x1.5	1.5	100	21	58	12	4
	21368-M18X1.5	MF 18x1.5	1.5	110	24	66	14	4
	21368-M20X1.5	MF 20x1.5	1.5	125	24	80	16	4
	21368-M22X1.5	MF 22x1.5	1.5	125	24	78	18	4
	21368-M24X1.5	MF 24x1.5	1.5	140	26	93	18	4

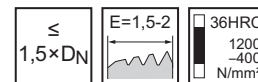
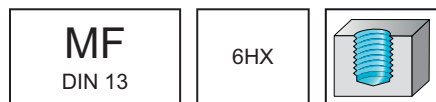
C1

HSS-E machine taps

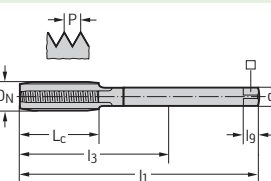
Paradur® HN



– For short-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●●	●●	●●	●●	●●	●●

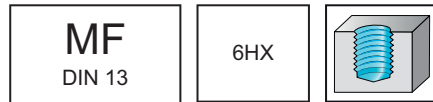
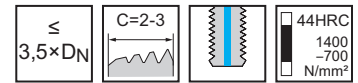
DIN 374										
	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	213614-M12X1.5	MF 12x1.5	1.5	100	21	73	9	7	10	5
	213614-M14X1.5	MF 14x1.5	1.5	100	21	71	11	9	12	6
	213614-M16X1.5	MF 16x1.5	1.5	100	21	58	12	9	12	6
	213614-M18X1.5	MF 18x1.5	1.5	110	24	66	14	11	14	6
	213614-M20X1.5	MF 20x1.5	1.5	125	24	80	16	12	15	6
	213614-M22X1.5	MF 22x1.5	1.5	125	24	78	18	14.5	17	6

HSS-E machine taps

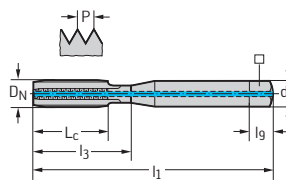
TC130 Supreme



- WY80AA: High Performance
- WY80EH: Excellent Performance



	P	M	K	N	S	H	O
WY80AA (TiN)	●	●	●	●	●	●	●
WY80EH (AlCrTiN)	●	●	●	●	●	●	●

DIN 374	Designation WY80AA	Designation WY80EH	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC130-M10X1-L1-	TC130-M10X1-L1-	MF 10x1	1	90	20	67	7	5.5	8	3
	TC130-M12X1.5-L1-	TC130-M12X1.5-L1-	MF 12x1.5	1.5	100	21	73	9	7	10	3
	TC130-M14X1.5-L1-	TC130-M14X1.5-L1-	MF 14x1.5	1.5	100	21	71	11	9	12	3
	TC130-M16X1.5-L1-	TC130-M16X1.5-L1-	MF 16x1.5	1.5	100	21	58	12	9	12	3
	TC130-M18X1.5-L1-	TC130-M18X1.5-L1-	MF 18x1.5	1.5	110	24	66	14	11	14	3
	TC130-M20X1.5-L1-	TC130-M20X1.5-L1-	MF 20x1.5	1.5	125	24	80	16	12	15	3
	TC130-M22X1.5-L1-	TC130-M22X1.5-L1-	MF 22x1.5	1.5	125	24	78	18	14.5	17	3
	TC130-M24X1.5-L1-		MF 24x1.5	1.5	140	26	93	18	14.5	17	4
	TC130-M30X2-L1-		MF 30x2	2	150	26	85	22	18	21	4
	TC130-M33X2-L1-		MF 33x2	2	160	28	93	25	20	23	4

Ordering example for the grade WY80AA: TC130-M10X1-L1-WY80AA

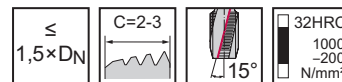
C1

HSS-E machine taps

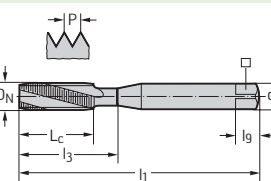
Paradur® N



– For long-chipping materials

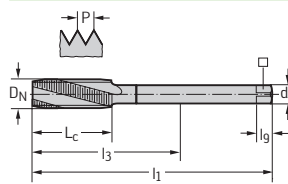


	P	M	K	N	S	H	O
uncoated	●●	●●	●●	●●	●●	●●	●●

DIN 371										
	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	21410-M4X0.5	MF 4x0.5	0.5	63	7	21	4.5	3.4	6	3
	21410-M5X0.5	MF 5x0.5	0.5	70	8	25	6	4.9	8	3
	21410-M6X0.5	MF 6x0.5	0.5	80	10	30	6	4.9	8	3
	21410-M6X0.75	MF 6x0.75	0.75	80	10	30	6	4.9	8	3

l_g dimensions in accordance with DIN 10

DIN 374



Designation TICN	Designation TIN	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	2146005-M8X0.75	21460-M8X0.75	MF 8x0.75	0.75	80	10	57	6	4.9	8	3
2146006-M8X1	2146005-M8X1	21460-M8X1	MF 8x1	1	90	13	67	6	4.9	8	3
2146006-M10X1	2146005-M10X1	21460-M10X1	MF 10x1	1	90	12	67	7	5.5	8	3
2146006-M12X1	2146005-M12X1	21460-M12X1	MF 12x1	1	100	13	73	9	7	10	3
		21460-M14X1	MF 14x1	1	100	15	71	11	9	12	4
		21460-M16X1	MF 16x1	1	100	15	58	12	9	12	4
		21460-M10X1.25	MF 10x1.25	1.25	100	15	77	7	5.5	8	3
		21460-M12X1.25	MF 12x1.25	1.25	100	13	73	9	7	10	3
		21460-M14X1.25	MF 14x1.25	1.25	100	15	71	11	9	12	4
2146006-M12X1.5	2146005-M12X1.5	21460-M12X1.5	MF 12x1.5	1.5	100	21	73	9	7	10	3
2146006-M14X1.5	2146005-M14X1.5	21460-M14X1.5	MF 14x1.5	1.5	100	21	71	11	9	12	4
2146006-M16X1.5	2146005-M16X1.5	21460-M16X1.5	MF 16x1.5	1.5	100	21	58	12	9	12	4
2146006-M18X1.5	2146005-M18X1.5	21460-M18X1.5	MF 18x1.5	1.5	110	24	66	14	11	14	4
2146006-M20X1.5	2146005-M20X1.5	21460-M20X1.5	MF 20x1.5	1.5	125	24	80	16	12	15	4
	2146005-M22X1.5	21460-M22X1.5	MF 22x1.5	1.5	125	24	78	18	14.5	17	4
	2146005-M24X1.5	21460-M24X1.5	MF 24x1.5	1.5	140	26	93	18	14.5	17	4
		21460-M26X1.5	MF 26x1.5	1.5	140	26	93	18	14.5	17	4
		21460-M27X1.5	MF 27x1.5	1.5	140	26	77	20	16	19	4
		21460-M28X1.5	MF 28x1.5	1.5	140	26	77	20	16	19	4
		21460-M30X1.5	MF 30x1.5	1.5	150	26	85	22	18	21	4
		21460-M36X1.5	MF 36x1.5	1.5	170	28	101	28	22	25	4
		21460-M20X2	MF 20x2	2	140	30	95	16	12	15	4
		21460-M24X2	MF 24x2	2	140	26	93	18	14.5	17	4
		21460-M27X2	MF 27x2	2	140	26	77	20	16	19	4
		21460-M30X2	MF 30x2	2	150	26	85	22	18	21	4

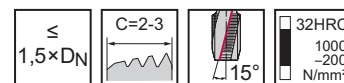
l_g dimensions in accordance with DIN 10

HSS-E machine taps

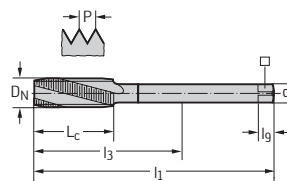
Paradur® N



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●	●	●	●	●	●	●
TIN	●	●	●	●	●	●	●

DIN 374		Designation TIN	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
			21480-M4X0.5	MF 4x0.5	0.5	63	7	43	2.8	2.1	5	3
			21480-M5X0.5	MF 5x0.5	0.5	70	8	49	3.5	2.7	6	3
			21480-M6X0.5	MF 6x0.5	0.5	80	10	59	4.5	3.4	6	3
			21480-M6X0.75	MF 6x0.75	0.75	80	10	59	4.5	3.4	6	3
			21480-M8X0.75	MF 8x0.75	0.75	80	10	57	6	4.9	8	3
	2148005-M8X1	21480-M8X1	MF 8x1	1	90	13	67	6	4.9	8	3	3
	2148005-M10X1	21480-M10X1	MF 10x1	1	90	12	67	7	5.5	8	3	3
	2148005-M12X1	21480-M12X1	MF 12x1	1	100	13	73	9	7	10	3	3
	2148005-M12X1.5	21480-M12X1.5	MF 12x1.5	1.5	100	21	73	9	7	10	3	3
	2148005-M14X1.5	21480-M14X1.5	MF 14x1.5	1.5	100	21	71	11	9	12	4	4
	2148005-M16X1.5	21480-M16X1.5	MF 16x1.5	1.5	100	21	58	12	9	12	4	4
		21480-M18X1.5	MF 18x1.5	1.5	110	24	66	14	11	14	4	4
		21480-M20X1.5	MF 20x1.5	1.5	125	24	80	16	12	15	4	4
		21480-M22X1.5	MF 22x1.5	1.5	125	24	78	18	14.5	17	4	4

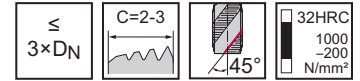
C1

HSS-E machine taps

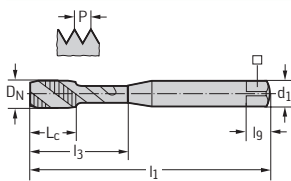
Paradur® X-pert P



– For long-chipping materials

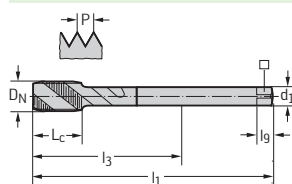


	P	M	K	N	S	H	O
uncoated	●●	●	●	●	●	●	●

DIN 371		Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
		P21519-M3X0.25	MF 3x0.25	0.25	56	6	18	3.5	2.7	6	3
		P21519-M2.5X0.35	MF 2.5x0.35	0.35	50	4	12.5	2.8	2.1	5	3
		P21519-M3X0.35	MF 3x0.35	0.35	56	6	18	3.5	2.7	6	3
		P21519-M4X0.35	MF 4x0.35	0.35	63	7	21	4.5	3.4	6	3
		P21519-M4X0.5	MF 4x0.5	0.5	63	7	21	4.5	3.4	6	3
		P21519-M4.5X0.5	MF 4.5x0.5	0.5	70	8	25	6	4.9	8	3
		P21519-M5X0.5	MF 5x0.5	0.5	70	8	25	6	4.9	8	3
		P21519-M6X0.5	MF 6x0.5	0.5	80	10	30	6	4.9	8	3
		P21519-M6X0.75	MF 6x0.75	0.75	80	10	30	6	4.9	8	3
		P21519-M7X0.75	MF 7x0.75	0.75	80	10	30	7	5.5	8	3
		P21519-M8X1	MF 8x1	1	90	12	35	8	6.2	9	3
		P21519-M10X1	MF 10x1	1	90	12	39	10	8	11	3

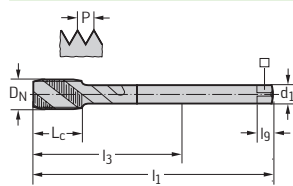
C1

DIN 374



Designation TIN	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h ₉ mm		l _g mm	N
	P21569-M8X0.75	MF 8x0.75	0.75	80	10	57	6	4.9	8	3
	P21569-M10X0.75	MF 10x0.75	0.75	90	12	67	7	5.5	8	3
P2156905-M8X1	P21569-M8X1	MF 8x1	1	90	12	67	6	4.9	8	3
P2156905-M10X1	P21569-M10X1	MF 10x1	1	90	12	67	7	5.5	8	3
	P21569-M9X1	MF 9x1	1	90	13	67	7	5.5	8	3
P2156905-M12X1	P21569-M12X1	MF 12x1	1	100	13	73	9	7	10	4
	P21569-M14X1	MF 14x1	1	100	15	71	11	9	12	4
	P21569-M16X1	MF 16x1	1	100	15	58	12	9	12	4
	P21569-M18X1	MF 18x1	1	110	17	66	14	11	14	4
	P21569-M20X1	MF 20x1	1	125	17	80	16	12	15	4
	P21569-M22X1	MF 22x1	1	125	18	78	18	14.5	17	4
	P21569-M24X1	MF 24x1	1	140	20	93	18	14.5	17	5
P2156905-M10X1.25	P21569-M10X1.25	MF 10x1.25	1.25	100	15	77	7	5.5	8	3
P2156905-M12X1.25	P21569-M12X1.25	MF 12x1.25	1.25	100	13	73	9	7	10	4
	P21569-M14X1.25	MF 14x1.25	1.25	100	15	71	11	9	12	4
P2156905-M12X1.5	P21569-M12X1.5	MF 12x1.5	1.5	100	13	73	9	7	10	4
P2156905-M14X1.5	P21569-M14X1.5	MF 14x1.5	1.5	100	15	71	11	9	12	4
P2156905-M16X1.5	P21569-M16X1.5	MF 16x1.5	1.5	100	15	58	12	9	12	4
P2156905-M18X1.5	P21569-M18X1.5	MF 18x1.5	1.5	110	17	66	14	11	14	4
P2156905-M20X1.5	P21569-M20X1.5	MF 20x1.5	1.5	125	17	80	16	12	15	4
P2156905-M22X1.5	P21569-M22X1.5	MF 22x1.5	1.5	125	18	78	18	14.5	17	4
	P21569-M24X1.5	MF 24x1.5	1.5	140	20	93	18	14.5	17	5
	P21569-M26X1.5	MF 26x1.5	1.5	140	20	93	18	14.5	17	5
	P21569-M27X1.5	MF 27x1.5	1.5	140	20	77	20	16	19	5
	P21569-M30X1.5	MF 30x1.5	1.5	150	20	85	22	18	21	5
	P21569-M32X1.5	MF 32x1.5	1.5	150	20	85	22	18	21	5
	P21569-M33X1.5	MF 33x1.5	1.5	160	22	93	25	20	23	5
	P21569-M36X1.5	MF 36x1.5	1.5	170	22	101	28	22	25	5
	P21569-M38X1.5	MF 38x1.5	1.5	170	22	101	28	22	25	5
	P21569-M40X1.5	MF 40x1.5	1.5	170	22	72	32	24	27	5
	P21569-M42X1.5	MF 42x1.5	1.5	170	22	72	32	24	27	6
	P21569-M45X1.5	MF 45x1.5	1.5	180	22	77	36	29	32	6
	P21569-M48X1.5	MF 48x1.5	1.5	190	22	87	36	29	32	6
	P21569-M20X2	MF 20x2	2	140	25	95	16	12	15	4
	P21569-M22X2	MF 22x2	2	140	20	93	18	14.5	17	4

DIN 374



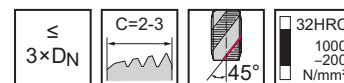
Designation TIN	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
	P21569-M24X2	MF 24x2	2	140	20	93	18	14.5	17	5
	P21569-M27X2	MF 27x2	2	140	20	77	20	16	19	5
	P21569-M30X2	MF 30x2	2	150	20	85	22	18	21	5
	P21569-M33X2	MF 33x2	2	160	22	93	25	20	23	5
	P21569-M36X2	MF 36x2	2	170	22	101	28	22	25	5
	P21569-M39X2	MF 39x2	2	170	22	72	32	24	27	5
	P21569-M42X2	MF 42x2	2	170	22	72	32	24	27	6
	P21569-M48X2	MF 48x2	2	190	24	87	36	29	32	6
	P21569-M36X3	MF 36x3	3	200	30	131	28	22	25	5
	P21569-M39X3	MF 39x3	3	200	33	102	32	24	27	5
	P21569-M42X3	MF 42x3	3	200	33	102	32	24	27	6
	P21569-M48X3	MF 48x3	3	225	36	122	36	29	32	6
	P21569-M52X3	MF 52x3	3	225	36	95	40	32	35	6

HSS-E machine taps

Paradur® X-pert P



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●	●	●	●	●	●	●
TIN	●	●	●	●	●	●	●

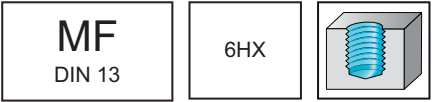
DIN 374	Designation TIN	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	P2158905-M8X1	P21589-M8X1	MF 8x1	1	90	12	67	6	4.9	8	3
	P2158905-M10X1	P21589-M10X1	MF 10x1	1	90	12	67	7	5.5	8	3
	P2158905-M12X1	P21589-M12X1	MF 12x1	1	100	13	73	9	7	10	4
	P2158905-M12X1.5	P21589-M12X1.5	MF 12x1.5	1.5	100	13	73	9	7	10	4
	P2158905-M14X1.5	P21589-M14X1.5	MF 14x1.5	1.5	100	15	71	11	9	12	4
	P2158905-M16X1.5	P21589-M16X1.5	MF 16x1.5	1.5	100	15	58	12	9	12	4
	P2158905-M18X1.5		MF 18x1.5	1.5	110	17	66	14	11	14	4

C1

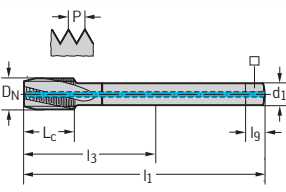
HSS-E machine taps
Paradur® Short Chip HT



– For long-chipping materials



	P	M	K	N	S	H	O
THL	●	●	●	●	●	●	●
uncoated	●	●	●	●	●	●	●

DIN 376											
Designation		Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
THL											
	21460T2-M12X1.5	21460TR-M12X1.5	MF 12x1.5	1.5	100	13	58	9	7	10	3
	21460T2-M14X1.5		MF 14x1.5	1.5	100	15	71	11	9	12	4
	21460T2-M16X1.5	21460TR-M16X1.5	MF 16x1.5	1.5	100	15	58	12	9	12	4

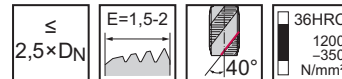
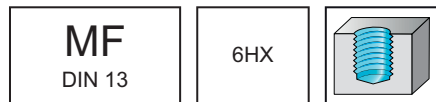
21460TR: Uncoated rake

HSS-E machine taps

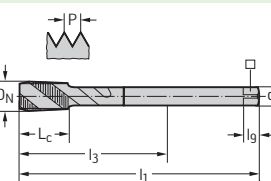
Paradur® STE



– For long-chipping materials



	P	M	K	N	S	H	O
THL	●	●	●	●	●	●	●

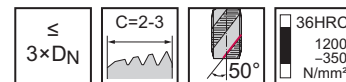
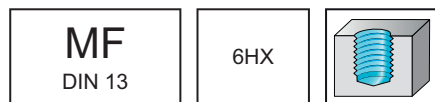
DIN 374										
	Designation		P	l ₁	L _c	l ₃	d ₁ h9		l _g	N
	THL	D _N	mm	mm	mm	mm	mm		mm	
	2156062-M8X1	MF 8x1	1	90	13	67	6	4.9	8	4
	2156062-M10X1	MF 10x1	1	90	12	67	7	5.5	8	4
	2156062-M12X1.5	MF 12x1.5	1.5	100	13	73	9	7	10	4
	2156062-M14X1.5	MF 14x1.5	1.5	100	15	71	11	9	12	5
	2156062-M16X1.5	MF 16x1.5	1.5	100	15	58	12	9	12	5
2156062-M18X1.5	MF 18x1.5	1.5	110	17	66	14	11	14	5	

HSS-E PM machine taps

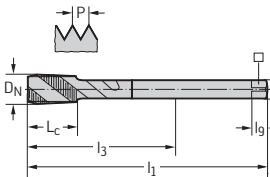
TC142 Supreme



– WW60RB: Best wear resistance



	P	M	K	N	S	H	O
WW60RB (TiAlN)	●	●●	●	●	●	●	●

DIN 374		Designation WW60RB	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	TC142-M8X1-L0-	MF 8x1	1	90	12	67	6	4.9	8	3	
	TC142-M10X1-L0-	MF 10x1	1	90	12	67	7	5.5	8	3	
	TC142-M12X1-L0-	MF 12x1	1	100	13	73	9	7	10	4	
	TC142-M10X1.25-L0-	MF 10x1.25	1.25	100	15	77	7	5.5	8	3	
	TC142-M12X1.25-L0-	MF 12x1.25	1.25	100	13	73	9	7	10	4	
	TC142-M12X1.5-L0-	MF 12x1.5	1.5	100	13	73	9	7	10	4	
	TC142-M14X1.5-L0-	MF 14x1.5	1.5	100	15	71	11	9	12	4	
	TC142-M16X1.5-L0-	MF 16x1.5	1.5	100	15	58	12	9	12	4	
	TC142-M20X1.5-L0-	MF 20x1.5	1.5	125	17	80	16	12	15	4	

Ordering example for the grade WW60RB: TC142-M10X1-L0-WW60RB

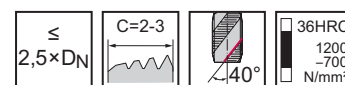
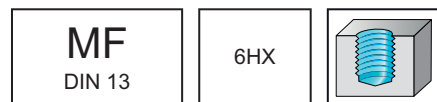
C1

HSS-E machine taps

Paradur® X-pert M



– For long-chipping materials



	P	M	K	N	S	H	O
VAP	●	●●	●	●	●	●	●
TIN	●	●●	●	●	●	●	●

DIN 371	Designation TIN	Designation VAP	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	M2151305-M4X0.5	M21513-M4X0.5	MF 4x0.5	0.5	63	7	21	4.5	3.4	6	3
	M2151305-M5X0.5	M21513-M5X0.5	MF 5x0.5	0.5	70	8	25	6	4.9	8	3
	M2151305-M6X0.5	M21513-M6X0.5	MF 6x0.5	0.5	80	10	30	6	4.9	8	3
		M21513-M6X0.75	MF 6x0.75	0.75	80	10	30	6	4.9	8	3

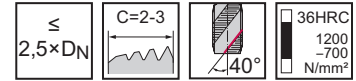
DIN 374	Designation TIN	Designation VAP	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	M2156305-M8X0.5	M21563-M8X0.5	MF 8x0.5	0.5	80	10	57	6	4.9	8	3
	M2156305-M8X0.75	M21563-M8X0.75	MF 8x0.75	0.75	80	10	57	6	4.9	8	3
	M2156305-M10X0.75	M21563-M10X0.75	MF 10x0.75	0.75	90	12	67	7	5.5	8	3
	M2156305-M8X1	M21563-M8X1	MF 8x1	1	90	12	67	6	4.9	8	3
	M2156305-M10X1	M21563-M10X1	MF 10x1	1	90	12	67	7	5.5	8	3
	M2156305-M12X1	M21563-M12X1	MF 12x1	1	100	13	73	9	7	10	4
		M21563-M14X1	MF 14x1	1	100	15	71	11	9	12	4
	M2156305-M10X1.25	M21563-M10X1.25	MF 10x1.25	1.25	100	15	77	7	5.5	8	3
	M2156305-M12X1.25	M21563-M12X1.25	MF 12x1.25	1.25	100	13	73	9	7	10	4
	M2156305-M12X1.5	M21563-M12X1.5	MF 12x1.5	1.5	100	13	73	9	7	10	4
	M2156305-M14X1.5	M21563-M14X1.5	MF 14x1.5	1.5	100	15	71	11	9	12	4
	M2156305-M16X1.5	M21563-M16X1.5	MF 16x1.5	1.5	100	15	58	12	9	12	4
	M2156305-M18X1.5	M21563-M18X1.5	MF 18x1.5	1.5	110	17	66	14	11	14	4
	M2156305-M20X1.5	M21563-M20X1.5	MF 20x1.5	1.5	125	17	80	16	12	15	4
		M21563-M22X1.5	MF 22x1.5	1.5	125	18	78	18	14.5	17	5
		M21563-M24X1.5	MF 24x1.5	1.5	140	20	93	18	14.5	17	5
		M21563-M27X1.5	MF 27x1.5	1.5	140	20	77	20	16	19	5
		M21563-M20X2	MF 20x2	2	140	25	95	16	12	15	4
		M21563-M24X2	MF 24x2	2	140	20	93	18	14.5	17	5
		M21563-M27X2	MF 27x2	2	140	20	77	20	16	19	5
		M21563-M30X2	MF 30x2	2	150	20	85	22	18	21	5

HSS-E machine taps

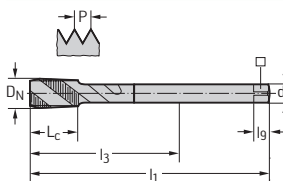
Paradur® X-pert M



– For long-chipping materials



	P	M	K	N	S	H	O
TIN	●	●●					

DIN 374		Designation TIN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	l_g mm	N
	M2158305-M8X1	MF 8x1		1	90	12	67	6	4.9	3
	M2158305-M10X1	MF 10x1		1	90	12	67	7	5.5	3
	M2158305-M12X1	MF 12x1		1	100	13	73	9	7	4
	M2158305-M14X1	MF 14x1		1	100	15	71	11	9	4
	M2158305-M16X1	MF 16x1		1	100	15	58	12	9	4
	M2158305-M12X1.5	MF 12x1.5		1.5	100	13	73	9	7	4
	M2158305-M14X1.5	MF 14x1.5		1.5	100	15	71	11	9	4
	M2158305-M16X1.5	MF 16x1.5		1.5	100	15	58	12	9	4

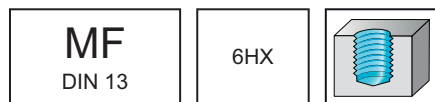
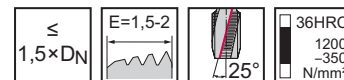
C1

HSS-E machine taps

Paradur Inox® 25

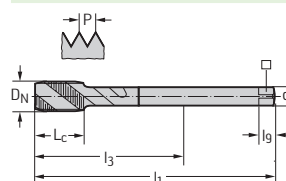


– For long-chipping materials



	P	M	K	N	S	H	O
TIN	●●	●●	●●	●●	●●	●●	●●

DIN 374



Designation TIN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
2156315-M10X1	MF 10x1	1	90	20	67	7	5.5	8	5
2156315-M12X1	MF 12x1	1	100	21	73	9	7	10	5
2156315-M12X1.5	MF 12x1.5	1.5	100	21	73	9	7	10	5
2156315-M14X1.5	MF 14x1.5	1.5	100	21	71	11	9	12	5
2156315-M16X1.5	MF 16x1.5	1.5	100	21	58	12	9	12	5
2156315-M18X1.5	MF 18x1.5	1.5	110	24	66	14	11	14	5
2156315-M20X1.5	MF 20x1.5	1.5	125	24	80	16	12	15	6
2156315-M22X1.5	MF 22x1.5	1.5	125	24	78	18	14.5	17	6
2156315-M24X1.5	MF 24x1.5	1.5	140	26	93	18	14.5	17	6

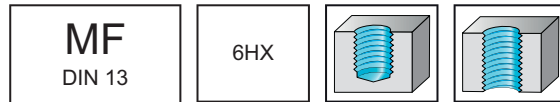
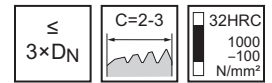
C1

HSS-E PM machine taps

Paradur® Eco CI



– For short-chipping materials



	P	M	K	N	S	H	O
NID			●●	●●			●●
TICN			●●	●●			●●

DIN 374		Designation NID	Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
			E2136406-M6X0.75	MF 6x0.75	0.75	80	15	59	4.5	3.4	6	4
		E21364-M8X0.75	E2136406-M8X0.75	MF 8x0.75	0.75	80	15	57	6	4.9	8	4
		E21364-M8X1	E2136406-M8X1	MF 8x1	1	90	18	67	6	4.9	8	4
		E21364-M10X1	E2136406-M10X1	MF 10x1	1	90	20	67	7	5.5	8	4
		E21364-M12X1	E2136406-M12X1	MF 12x1	1	100	21	73	9	7	10	4
		E21364-M10X1.25	E2136406-M10X1.25	MF 10x1.25	1.25	100	20	77	7	5.5	8	4
		E21364-M12X1.25	E2136406-M12X1.25	MF 12x1.25	1.25	100	21	73	9	7	10	4
		E21364-M12X1.5	E2136406-M12X1.5	MF 12x1.5	1.5	100	21	73	9	7	10	4
		E21364-M14X1.5	E2136406-M14X1.5	MF 14x1.5	1.5	100	21	71	11	9	12	4
		E21364-M16X1.5	E2136406-M16X1.5	MF 16x1.5	1.5	100	21	58	12	9	12	4
		E21364-M18X1.5	E2136406-M18X1.5	MF 18x1.5	1.5	110	24	66	14	11	14	4
		E21364-M20X1.5	E2136406-M20X1.5	MF 20x1.5	1.5	125	24	80	16	12	15	4
		E21364-M22X1.5	E2136406-M22X1.5	MF 22x1.5	1.5	125	24	78	18	14.5	17	5
		E21364-M24X1.5	E2136406-M24X1.5	MF 24x1.5	1.5	140	26	93	18	14.5	17	5
		E21364-M26X1.5	E2136406-M26X1.5	MF 26x1.5	1.5	140	26	93	18	14.5	17	5
		E21364-M30X1.5	E2136406-M30X1.5	MF 30x1.5	1.5	150	26	85	22	18	21	5

NID = Nidamised (NIT+VAP)

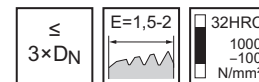
C1

HSS-E PM machine taps

Paradur® Eco CI



– For short-chipping materials



	P	M	K	N	S	H	O
TICN			●●	●●			●●

DIN 374

Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
E2136466-M8X1	MF 8x1	1	90	18	67	6	4.9	8	4
E2136466-M10X1	MF 10x1	1	90	20	67	7	5.5	8	4
E2136466-M12X1	MF 12x1	1	100	21	73	9	7	10	4
E2136466-M12X1.5	MF 12x1.5	1.5	100	21	73	9	7	10	4
E2136466-M14X1.5	MF 14x1.5	1.5	100	21	71	11	9	12	4
E2136466-M16X1.5	MF 16x1.5	1.5	100	21	58	12	9	12	4
E2136466-M18X1.5	MF 18x1.5	1.5	110	24	66	14	11	14	4
E2136466-M20X1.5	MF 20x1.5	1.5	125	24	80	16	12	15	4
E2136466-M22X1.5	MF 22x1.5	1.5	125	24	78	18	14.5	17	5

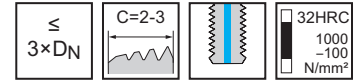
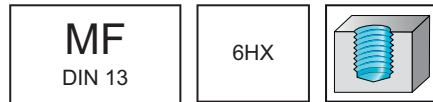
C1

HSS-E PM machine taps

Paradur® Eco CI

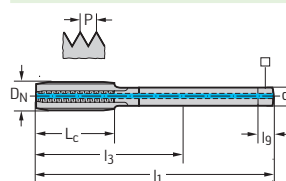


– For short-chipping materials



	P	M	K	N	S	H	O
TICN			●●	●●			●●

DIN 374



Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
E2136416-M8X1	MF 8x1	1	90	18	67	6	4.9	8	4
E2136416-M10X1	MF 10x1	1	90	20	67	7	5.5	8	4
E2136416-M12X1	MF 12x1	1	100	21	73	9	7	10	4
E2136416-M12X1.5	MF 12x1.5	1.5	100	21	73	9	7	10	4
E2136416-M14X1.5	MF 14x1.5	1.5	100	21	71	11	9	12	4
E2136416-M16X1.5	MF 16x1.5	1.5	100	21	58	12	9	12	4
E2136416-M18X1.5	MF 18x1.5	1.5	110	24	66	14	11	14	4
E2136416-M20X1.5	MF 20x1.5	1.5	125	24	80	16	12	15	4
E2136416-M22X1.5	MF 22x1.5	1.5	125	24	78	18	14.5	17	5

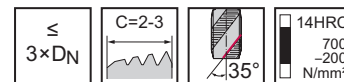
C1

HSS-E machine taps

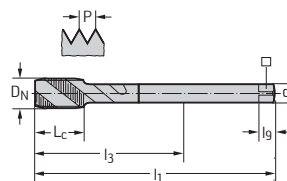
Paradur® X-pert N



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated				●	●		●

DIN 374		Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	N21566-M8X1	MF 8x1		1	90	12	67	6	4.9	8	2
	N21566-M10X1	MF 10x1		1	90	12	67	7	5.5	8	3
	N21566-M12X1	MF 12x1		1	100	13	73	9	7	10	3
	N21566-M16X1	MF 16x1		1	100	15	58	12	9	12	4
	N21566-M12X1.5	MF 12x1.5		1.5	100	13	73	9	7	10	3
	N21566-M14X1.5	MF 14x1.5		1.5	100	15	71	11	9	12	3
	N21566-M16X1.5	MF 16x1.5		1.5	100	15	58	12	9	12	3
	N21566-M18X1.5	MF 18x1.5		1.5	110	17	66	14	11	14	4
	N21566-M20X1.5	MF 20x1.5		1.5	125	17	80	16	12	15	4

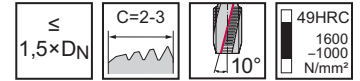
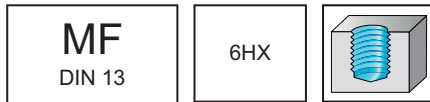
C1

HSS-E PM machine taps

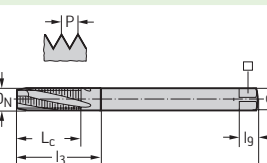
Paradur® Ni 10



– For long- and short-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●	●	●	●●	●	●

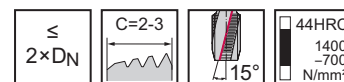
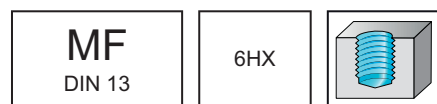
~DIN 371	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	214101-M8X1	MF 8x1	1	90	20	66	8	6.2	9	3
	214101-M10X1	MF 10x1	1	90	24	62	10	8	11	3
	214101-M10X1.25	MF 10x1.25	1.25	100	24.5	72	10	8	11	3
	214101-M12X1.25	MF 12x1.25	1.25	100	28.5	58	12	9	12	4
	214101-M12X1.5	MF 12x1.5	1.5	100	29.5	58	12	9	12	4

HSS-E PM machine taps

Paradur® Ti



- Recommended with oil
- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●	●	●	●●	●	●

~DIN 371	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	21416-M8X0.75	MF 8x0.75	0.75	80	10	29	8	6.2	9	3
	21416-M8X1	MF 8x1	1	90	12	29	8	6.2	9	3
	21416-M10X1	MF 10x1	1	90	14	33	10	8	11	3

DIN 374	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	21466-M8X1	MF 8x1	1	90	12	67	6	4.9	8	3
	21466-M10X1	MF 10x1	1	90	14	67	7	5.5	8	3
	21466-M12X1	MF 12x1	1	100	16	73	9	7	10	4
	21466-M14X1	MF 14x1	1	100	16	71	11	9	12	4
	21466-M16X1	MF 16x1	1	100	18	58	12	9	12	4
	21466-M10X1.25	MF 10x1.25	1.25	100	20	77	7	5.5	8	3
	21466-M12X1.25	MF 12x1.25	1.25	100	21	73	9	7	10	4
	21466-M12X1.5	MF 12x1.5	1.5	100	21	73	9	7	10	4
	21466-M14X1.5	MF 14x1.5	1.5	100	21	71	11	9	12	4

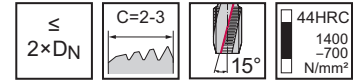
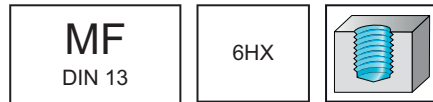
C1

HSS-E PM machine taps

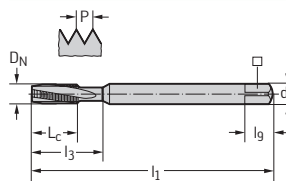
Paradur® Ti Plus

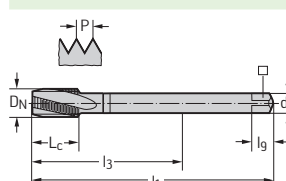


- Recommended with emulsion
- For long-chipping materials



	P	M	K	N	S	H	O
ACN					●●		

~DIN 371		Designation ACN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
		2141663-M6X0.75	MF 6x0.75	0.75	80	15	23	6	4.9	8	3
		2141663-M8X0.75	MF 8x0.75	0.75	90	18	29.5	8	6.2	9	3
		2141663-M8X1	MF 8x1	1	90	18	29.5	8	6.2	9	3
		2141663-M10X1	MF 10x1	1	100	20	33.5	10	8	11	3

DIN 374		Designation ACN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
		2146663-M12X1.5	MF 12x1.5	1.5	100	21	73	9	7	10	4
		2146663-M14X1.5	MF 14x1.5	1.5	100	21	71	11	9	12	4

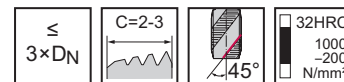
C1

HSS-E machine taps

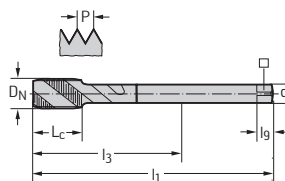
Paradur® Uni



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●	●	●	●	●	●

DIN 374	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	7156770-M4X0.5	MF 4x0.5	0.5	63	7	43	2.8	2.1	5	3
	7156770-M5X0.5	MF 5x0.5	0.5	70	8	49	3.5	2.7	6	3
	7156770-M6X0.5	MF 6x0.5	0.5	80	10	59	4.5	3.4	6	3
	7156770-M6X0.75	MF 6x0.75	0.75	80	10	59	4.5	3.4	6	3
	7156770-M8X0.75	MF 8x0.75	0.75	80	10	57	6	4.9	8	3
	7156770-M8X1	MF 8x1	1	90	12	67	6	4.9	8	3
	7156770-M10X1	MF 10x1	1	90	12	67	7	5.5	8	3
	7156770-M12X1	MF 12x1	1	100	13	73	9	7	10	4
	7156770-M10X1.25	MF 10x1.25	1.25	100	15	77	7	5.5	8	3
	7156770-M12X1.25	MF 12x1.25	1.25	100	13	73	9	7	10	4
	7156770-M12X1.5	MF 12x1.5	1.5	100	13	73	9	7	10	4
	7156770-M14X1.5	MF 14x1.5	1.5	100	15	71	11	9	12	4
	7156770-M16X1.5	MF 16x1.5	1.5	100	15	58	12	9	12	5
	7156770-M18X1.5	MF 18x1.5	1.5	110	17	66	14	11	14	5
	7156770-M20X1.5	MF 20x1.5	1.5	125	17	80	16	12	15	5
	7156770-M22X1.5	MF 22x1.5	1.5	125	18	78	18	14.5	17	5
	7156770-M24X1.5	MF 24x1.5	1.5	140	20	93	18	14.5	17	5
	7156770-M26X1.5	MF 26x1.5	1.5	140	20	93	18	14.5	17	5
	7156770-M27X1.5	MF 27x1.5	1.5	140	20	77	20	16	19	5
	7156770-M28X1.5	MF 28x1.5	1.5	140	20	77	20	16	19	5
	7156770-M30X1.5	MF 30x1.5	1.5	150	20	85	22	18	21	5
	7156770-M27X2	MF 27x2	2	140	20	77	20	16	19	5
	7156770-M30X2	MF 30x2	2	150	20	85	22	18	21	5

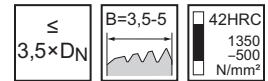
C1

HSS-E PM machine taps

Prototex® Eco Plus



– For long-chipping materials



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●	●	●	●

DIN 2184-1											
Designation THL	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N	
EP2221302-UNC2	UNC #2-56	2.184	56	45	7	12	2.8	2.1	5	3	
EP2221302-UNC4	UNC #4-40	2.845	40	56	9	18	3.5	2.7	6	3	
EP2221302-UNC6	UNC #6-32	3.505	32	56	11	20	4	3	6	3	
EP2221302-UNC8	UNC #8-32	4.166	32	63	12	21	4.5	3.4	6	3	
EP2221302-UNC10	UNC #10-24	4.826	24	70	13	25	6	4.9	8	3	
EP2221302-UNC1/4	UNC 1/4-20	6.35	20	80	15	30	7	5.5	8	3	

DIN 2184-1											
Designation THL	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N	
EP2226302-UNC5/16	UNC 5/16-18	7.938	18	90	18	67	6	4.9	8	3	
EP2226302-UNC3/8	UNC 3/8-16	9.525	16	100	20	77	7	5.5	8	3	
EP2226302-UNC1/2	UNC 1/2-13	12.7	13	110	23	83	9	7	10	4	
EP2226302-UNC5/8	UNC 5/8-11	15.875	11	110	25	68	12	9	12	4	

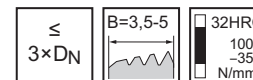
C1

HSS-E machine taps

TC216 Perform

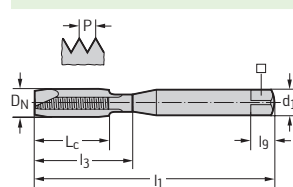


– For long-chipping materials



	P	M	K	N	S	H	O
WY80AA (TiN)	●	●	●	●	●	●	●

DIN 371

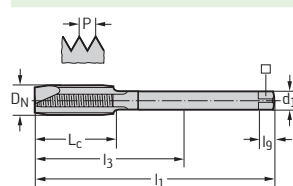


Designation WY80AA	DN-P	DN mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
TC216-UNC6-C0-	UNC #6-32	3.505	32	56	11	20	4	3	6	3
TC216-UNC8-C0-	UNC #8-32	4.166	32	63	12	21	4.5	3.4	6	3
TC216-UNC10-C0-	UNC #10-24	4.826	24	70	13	25	6	4.9	8	3
TC216-UNC1/4-C0-	UNC 1/4-20	6.35	20	80	15	30	7	5.5	8	3
TC216-UNC5/16-C0-	UNC 5/16-18	7.938	18	90	18	35	8	6.2	9	3
TC216-UNC3/8-C0-	UNC 3/8-16	9.525	16	100	20	39	10	8	11	3

Ordering example for the grade WY80AA: TC216-UNC1/4-C0-WY80AA

C1

DIN 376



Designation WY80AA	DN-P	DN mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
TC216-UNC1/2-L0-	UNC 1/2-13	12.7	13	110	23	83	9	7	10	4
TC216-UNC5/8-L0-	UNC 5/8-11	15.875	11	110	25	68	12	9	12	4
TC216-UNC3/4-L0-	UNC 3/4-10	19.05	10	125	30	81	14	11	14	4

Ordering example for the grade WY80AA: TC216-UNC1/2-L0-WY80AA

HSS-E machine taps
Prototex® X-pert P



– For long-chipping materials

UNC
ASME B1.1

3B

$\leq 3 \times D_N$

B=3,5-5

32HRC
1000
-200
N/mm²

	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 2184-1-B											
	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	P22200-UNC2	UNC #2-56	2.184	56	45	7	12	2.8	2.1	5	2
	P22200-UNC4	UNC #4-40	2.845	40	56	9	18	3.5	2.7	6	2
	P22200-UNC6	UNC #6-32	3.505	32	56	11	20	4	3	6	2
	P22200-UNC8	UNC #8-32	4.166	32	63	12	21	4.5	3.4	6	2

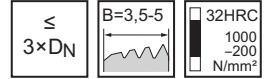
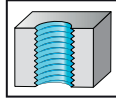
HSS-E machine taps Prototex® X-pert P



– For long-chipping materials

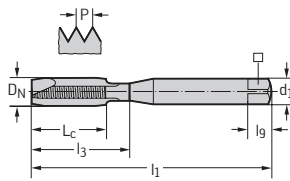
UNC
ASME B1.1

2B



	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 2184-1



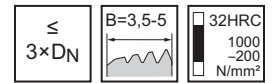
Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
P22210-UNC2	UNC #2-56	2.184	56	45	7	12	2.8	2.1	5	2
P22210-UNC4	UNC #4-40	2.845	40	56	9	18	3.5	2.7	6	2
P22210-UNC6	UNC #6-32	3.505	32	56	11	20	4	3	6	2
P22210-UNC8	UNC #8-32	4.166	32	63	12	21	4.5	3.4	6	2

HSS-E machine taps

Prototex® X-pert P



– For long-chipping materials



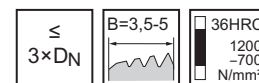
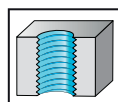
	P	M	K	N	S	H	O
uncoated	●	●	●	●	●	●	●
TIN	●	●	●	●	●	●	●

DIN 2184-1		Designation TIN	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
			P22310-UNC2	UNC #2-56	2.184	56	45	7	12	2.8	2.1	5	3
			P22310-UNC4	UNC #4-40	2.845	40	56	9	18	3.5	2.7	6	3
			P22310-UNC5	UNC #5-40	3.175	40	56	10	18	3.5	2.7	6	3
	P2231005-UNC6		P22310-UNC6	UNC #6-32	3.505	32	56	11	20	4	3	6	3
			P22310-UNC8	UNC #8-32	4.166	32	63	12	21	4.5	3.4	6	3
			P22310-UNC10	UNC #10-24	4.826	24	70	13	25	6	4.9	8	3
			P22310-UNC12	UNC #12-24	5.486	24	80	15	30	6	4.9	8	3
			P22310-UNC1/4	UNC 1/4-20	6.35	20	80	15	30	7	5.5	8	3
			P22310-UNC5/16	UNC 5/16-18	7.938	18	90	18	35	8	6.2	9	3
			P22310-UNC3/8	UNC 3/8-16	9.525	16	100	20	39	10	8	11	3

DIN 2184-1		Designation TIN	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
			P22360-UNC7/16	UNC 7/16-14	11.113	14	100	20	76	8	6.2	9	3
	P2236005-UNC1/2		P22360-UNC1/2	UNC 1/2-13	12.7	13	110	23	83	9	7	10	3
			P22360-UNC9/16	UNC 9/16-12	14.288	12	110	25	81	11	9	12	3
	P2236005-UNC5/8		P22360-UNC5/8	UNC 5/8-11	15.875	11	110	25	68	12	9	12	3
	P2236005-UNC3/4		P22360-UNC3/4	UNC 3/4-10	19.05	10	125	30	81	14	11	14	3
			P22360-UNC7/8	UNC 7/8-9	22.225	9	140	30	93	18	14.5	17	3
			P22360-UNC1	UNC 1"-8	25.4	8	160	36	113	18	14.5	17	3
			P22360-UNC1.1/4	UNC 1.1/4-7	31.75	7	180	42	115	22	18	21	4
			P22360-UNC1.1/8	UNC 1.1/8-7	28.575	7	180	42	115	22	18	21	4
			P22360-UNC1.1/2	UNC 1.1/2-6	38.1	6	200	48	131	28	22	25	4

C1

- For long-chipping materials



	P	M	K	N	S	H	O
VAP	●	●●					
TIN	●	●●					

Designation TIN	Designation VAP	D _N -P	D _N mm	Threads	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
				per inch							
M2221305-UNC2	M22213-UNC2	UNC #2-56	2.184	56	45	7	12	2.8	2.1	5	2
M2221305-UNC3	M22213-UNC3	UNC #3-48	2.515	48	50	8	12.5	2.8	2.1	5	2
M2221305-UNC4	M22213-UNC4	UNC #4-40	2.845	40	56	9	18	3.5	2.7	6	2
M2221305-UNC5	M22213-UNC5	UNC #5-40	3.175	40	56	10	18	3.5	2.7	6	2
M2221305-UNC6	M22213-UNC6	UNC #6-32	3.505	32	56	11	20	4	3	6	2
M2221305-UNC8	M22213-UNC8	UNC #8-32	4.166	32	63	12	21	4.5	3.4	6	3
M2221305-UNC10	M22213-UNC10	UNC #10-24	4.826	24	70	13	25	6	4.9	8	3
	M22213-UNC12	UNC #12-24	5.486	24	80	15	30	6	4.9	8	3
M2221305-UNC1/4	M22213-UNC1/4	UNC 1/4-20	6.35	20	80	15	30	7	5.5	8	3

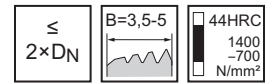
Designation TIN	Designation VAP	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
	M22263-UNC5/16	UNC 5/16-18	7.938	18	90	18	67	6	4.9	8	3
M2226305-UNC3/8	M22263-UNC3/8	UNC 3/8-16	9.525	16	100	20	77	7	5.5	8	3
	M22263-UNC7/16	UNC 7/16-14	11.113	14	100	20	76	8	6.2	9	3
M2226305-UNC1/2	M22263-UNC1/2	UNC 1/2-13	12.7	13	110	23	83	9	7	10	4
	M22263-UNC9/16	UNC 9/16-12	14.288	12	110	25	81	11	9	12	4
	M22263-UNC5/8	UNC 5/8-11	15.875	11	110	25	68	12	9	12	4
	M22263-UNC3/4	UNC 3/4-10	19.05	10	125	30	81	14	11	14	4
	M22263-UNC7/8	UNC 7/8-9	22.225	9	140	30	93	18	14.5	17	4
	M22263-UNC1	UNC 1"-8	25.4	8	160	36	113	18	14.5	17	4

HSS-E PM machine taps

Prototex® TiNi



- Recommended with oil
- For long-chipping materials



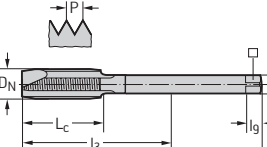
	P	M	K	N	S	H	O
uncoated	●	●	●	●	●	●	●
TiCN	●	●	●	●	●	●	●

~DIN 2184-1

The drawing shows a side view and a cross-section of a tap. The side view labels the total length as l_1 , the cutting length as l_3 , the chamfer length as L_c , and the thread length as l_9 . The cross-section shows the outer diameter D_N and the pitch P . The thread profile is shown with a square root symbol $\square$ indicating the thread form.

Designation TICN	Designation uncoated	D_N -P	D_N mm	Threads per inch	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	$\square$	l_9 mm	N
2220706-UNC2	22207-UNC2	UNC #2-56	2.184	56	45	9	9	2.8	2.1	5	2
	22207-UNC4	UNC #4-40	2.845	40	56	10	10	3.5	2.7	6	2
	22207-UNC5	UNC #5-40	3.175	40	56	10	10	3.5	2.7	6	2
2220706-UNC6	22207-UNC6	UNC #6-32	3.505	32	56	12	12	4	3	6	3
2220706-UNC8	22207-UNC8	UNC #8-32	4.166	32	63	13	13	4.5	3.4	6	3
2220706-UNC10	22207-UNC10	UNC #10-24	4.826	24	70	16	16	6	4.9	8	3
2220706-UNC1/4	22207-UNC1/4	UNC 1/4-20	6.35	20	80	15	25	7	5.5	8	3
2220706-UNC5/16	22207-UNC5/16	UNC 5/16-18	7.938	18	90	18	29.5	8	6.2	9	3
2220706-UNC3/8	22207-UNC3/8	UNC 3/8-16	9.525	16	100	20	33.5	10	8	11	3

≤ UNC 10: Without reduced neck after the thread

DIN 2184-1											
	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	22257-UNC7/16	UNC 7/16-14	11.113	14	100	20	76	8	6.2	9	4
	22257-UNC1/2	UNC 1/2-13	12.7	13	110	23	83	9	7	10	4
	22257-UNC5/8	UNC 5/8-11	15.875	11	110	25	68	12	9	12	4
	22257-UNC3/4	UNC 3/4-10	19.05	10	125	30	81	14	11	14	4

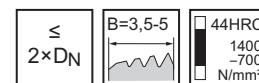
C1

HSS-E PM machine taps

Prototex® TiNi



- Recommended with oil
- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●	●	●	●	●	●	●
TiCN	●	●	●	●	●	●	●

~DIN 2184-1	Designation TiCN	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	2221706-UNC2	22217-UNC2	UNC #2-56	2.184	56	45	9	9	2.8	2.1	5	2
	2221706-UNC4	22217-UNC4	UNC #4-40	2.845	40	56	10	10	3.5	2.7	6	2
	2221706-UNC5	22217-UNC5	UNC #5-40	3.175	40	56	10	10	3.5	2.7	6	2
	2221706-UNC6	22217-UNC6	UNC #6-32	3.505	32	56	12	12	4	3	6	3
	2221706-UNC8	22217-UNC8	UNC #8-32	4.166	32	63	13	13	4.5	3.4	6	3
	2221706-UNC10	22217-UNC10	UNC #10-24	4.826	24	70	16	16	6	4.9	8	3
	2221706-UNC1/4	22217-UNC1/4	UNC 1/4-20	6.35	20	80	15	25	7	5.5	8	3
	2221706-UNC5/16	22217-UNC5/16	UNC 5/16-18	7.938	18	90	18	29.5	8	6.2	9	3
	2221706-UNC3/8	22217-UNC3/8	UNC 3/8-16	9.525	16	100	20	33.5	10	8	11	3

≤ UNC 10: Without reduced neck after the thread

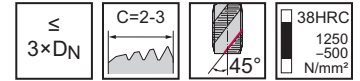
DIN 2184-1	Designation TiCN	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	2226706-UNC7/16	22267-UNC7/16	UNC 7/16-14	11.113	14	100	20	76	8	6.2	9	4
	2226706-UNC1/2	22267-UNC1/2	UNC 1/2-13	12.7	13	110	23	83	9	7	10	4
	2226706-UNC9/16	22267-UNC9/16	UNC 9/16-12	14.288	12	110	25	81	11	9	12	4
	2226706-UNC5/8	22267-UNC5/8	UNC 5/8-11	15.875	11	110	25	68	12	9	12	4
	2226706-UNC3/4	22267-UNC3/4	UNC 3/4-10	19.05	10	125	30	81	14	11	14	4

HSS-E PM machine taps

Paradur® Eco Plus



– For long-chipping materials



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●	●	●	●

~DIN 2184-1											
	Designation THL	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	EP2251302-UNC2	UNC #2-56	2.184	56	45	4	8.4	2.8	2.1	5	3
	EP2251302-UNC4	UNC #4-40	2.845	40	56	6	11	3.5	2.7	6	3
	EP2251302-UNC6	UNC #6-32	3.505	32	56	6.5	13.7	4	3	6	3
	EP2251302-UNC8	UNC #8-32	4.166	32	63	7	17.8	4.5	3.4	6	3
	EP2251302-UNC10	UNC #10-24	4.826	24	70	8	20.7	6	4.9	8	3
	EP2251302-UNC1/4	UNC 1/4-20	6.35	20	80	10	27.3	7	5.5	8	3

UNC 2: Without thread taper

DIN 2184-1											
	Designation THL	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	EP2256302-UNC5/16	UNC 5/16-18	7.938	18	90	12	67	6	4.9	8	3
	EP2256302-UNC3/8	UNC 3/8-16	9.525	16	100	15	77	7	5.5	8	3
	EP2256302-UNC1/2	UNC 1/2-13	12.7	13	110	18	83	9	7	10	4
	EP2256302-UNC5/8	UNC 5/8-11	15.875	11	110	20	68	12	9	12	4

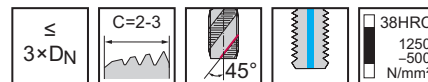
C1

HSS-E PM machine taps

Paradur® Eco Plus



– For long-chipping materials



	P	M	K	N	S	H	O
THL	●	●	●	●	●	●	●

~DIN 2184-1	Designation THL	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	EP2251312- UNC1/4	UNC 1/4-20	6.35	20	80	10	27.3	7	5.5	8	3

DIN 2184-1	Designation THL	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	EP2256312- UNC5/16	UNC 5/16- 18	7.938	18	90	12	67	6	4.9	8	3
	EP2256312- UNC3/8	UNC 3/8-16	9.525	16	100	15	77	7	5.5	8	3
	EP2256312- UNC1/2	UNC 1/2-13	12.7	13	110	18	83	9	7	10	4
	EP2256312- UNC5/8	UNC 5/8-11	15.875	11	110	20	68	12	9	12	4
	EP2256312- UNC3/4	UNC 3/4-10	19.05	10	125	25	81	14	11	14	4

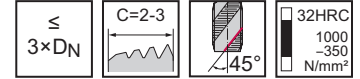
C1

HSS-E machine taps

TC115 Perform

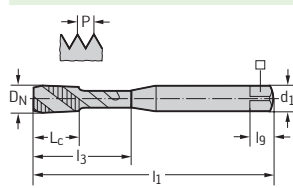


– For long-chipping materials



	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●●	●●	●			

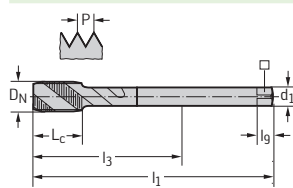
DIN 371



Designation WY80AA	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
TC115-UNC6-C0-	UNC #6-32	3.505	32	56	6.5	20	4	3	6	3
TC115-UNC8-C0-	UNC #8-32	4.166	32	63	7	21	4.5	3.4	6	3
TC115-UNC10-C0-	UNC #10-24	4.826	24	70	8	25	6	4.9	8	3
TC115-UNC1/4-C0-	UNC 1/4-20	6.35	20	80	10	30	7	5.5	8	3
TC115-UNC5/16-C0-	UNC 5/16-18	7.938	18	90	12	35	8	6.2	9	3
TC115-UNC3/8-C0-	UNC 3/8-16	9.525	16	100	15	39	10	8	11	3

Ordering example for the grade WY80AA: TC115-UNC1/4-C0-WY80AA

DIN 376



Designation WY80AA	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
TC115-UNC1/2-L0-	UNC 1/2-13	12.7	13	110	18	83	9	7	10	3
TC115-UNC5/8-L0-	UNC 5/8-11	15.875	11	110	20	68	12	9	12	3
TC115-UNC3/4-L0-	UNC 3/4-10	19.05	10	125	25	81	14	11	14	4

Ordering example for the grade WY80AA: TC115-UNC1/2-L0-WY80AA

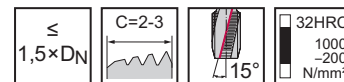
C1

HSS-E machine taps

Paradur® N

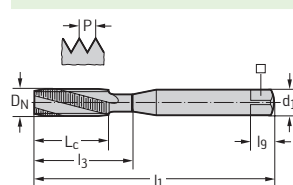


– For long-chipping materials



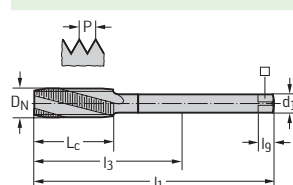
	P	M	K	N	S	H	O
uncoated	●●	●●	●●	●●	●●	●●	●●

DIN 2184-1



Designation uncoated	DN-P	DN mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
22400-UNC2	UNC #2-56	2.184	56	45	4	12	2.8	2.1	5	3
22400-UNC4	UNC #4-40	2.845	40	56	6	18	3.5	2.7	6	3
22400-UNC6	UNC #6-32	3.505	32	56	6.5	20	4	3	6	3
22400-UNC8	UNC #8-32	4.166	32	63	7	21	4.5	3.4	6	3
22400-UNC1/4	UNC 1/4-20	6.35	20	80	10	30	7	5.5	8	3
22400-UNC5/16	UNC 5/16-18	7.938	18	90	12	35	8	6.2	9	3
22400-UNC3/8	UNC 3/8-16	9.525	16	100	15	39	10	8	11	3

DIN 2184-1



Designation uncoated	DN-P	DN mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
22450-UNC1/2	UNC 1/2-13	12.7	13	110	18	83	9	7	10	3
22450-UNC5/8	UNC 5/8-11	15.875	11	110	20	68	12	9	12	3
22450-UNC3/4	UNC 3/4-10	19.05	10	125	25	81	14	11	14	4

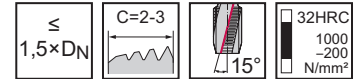
C1

HSS-E machine taps

Paradur® N



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●	●●	●●	●	●	●

DIN 2184-1											
	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
	22410-UNC1	UNC #1-64	1.854	64	45	4	9	2.8	2.1	5	3
	22410-UNC2	UNC #2-56	2.184	56	45	4	12	2.8	2.1	5	3
	22410-UNC4	UNC #4-40	2.845	40	56	6	18	3.5	2.7	6	3
	22410-UNC6	UNC #6-32	3.505	32	56	6.5	20	4	3	6	3
	22410-UNC8	UNC #8-32	4.166	32	63	7	21	4.5	3.4	6	3
	22410-UNC10	UNC #10-24	4.826	24	70	8	25	6	4.9	8	3
	22410-UNC12	UNC #12-24	5.486	24	80	10	30	6	4.9	8	3
	22410-UNC1/4	UNC 1/4-20	6.35	20	80	10	30	7	5.5	8	3
	22410-UNC5/16	UNC 5/16-18	7.938	18	90	12	35	8	6.2	9	3
	22410-UNC3/8	UNC 3/8-16	9.525	16	100	15	39	10	8	11	3

DIN 2184-1											
	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
	22460-UNC7/16	UNC 7/16-14	11.113	14	100	15	76	8	6.2	9	3
	22460-UNC1/2	UNC 1/2-13	12.7	13	110	18	83	9	7	10	3
	22460-UNC5/8	UNC 5/8-11	15.875	11	110	20	68	12	9	12	3
	22460-UNC3/4	UNC 3/4-10	19.05	10	125	25	81	14	11	14	4
	22460-UNC7/8	UNC 7/8-9	22.225	9	140	25	93	18	14.5	17	4
	22460-UNC1	UNC 1"-8	25.4	8	160	30	113	18	14.5	17	4

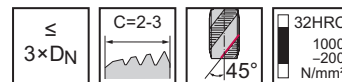
C1

HSS-E machine taps

Paradur® X-pert P

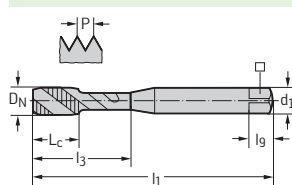


– For long-chipping materials



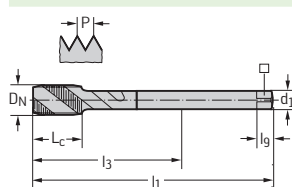
	P	M	K	N	S	H	O
uncoated	●	●	●	●	●	●	●

DIN 2184-1



Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
P22509-UNC2	UNC #2-56	2.184	56	45	4	12	2.8	2.1	5	3
P22509-UNC3	UNC #3-48	2.515	48	50	4	12.5	2.8	2.1	5	3
P22509-UNC4	UNC #4-40	2.845	40	56	6	18	3.5	2.7	6	3
P22509-UNC6	UNC #6-32	3.505	32	56	6.5	20	4	3	6	3
P22509-UNC8	UNC #8-32	4.166	32	63	7	21	4.5	3.4	6	3
P22509-UNC10	UNC #10-24	4.826	24	70	8	25	6	4.9	8	3
P22509-UNC1/4	UNC 1/4-20	6.35	20	80	10	30	7	5.5	8	3
P22509-UNC5/16	UNC 5/16-18	7.938	18	90	12	35	8	6.2	9	3
P22509-UNC3/8	UNC 3/8-16	9.525	16	100	15	39	10	8	11	3

DIN 2184-1



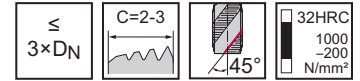
Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	d ₁ h9 mm	□	l ₉ mm	N
P22559-UNC5/16	UNC 5/16-18	7.938	18	90	12	6	4.9	8	3
P22559-UNC3/8	UNC 3/8-16	9.525	16	100	15	7	5.5	8	3
P22559-UNC7/16	UNC 7/16-14	11.113	14	100	15	8	6.2	9	3
P22559-UNC1/2	UNC 1/2-13	12.7	13	110	18	9	7	10	4
P22559-UNC9/16	UNC 9/16-12	14.288	12	110	20	11	9	12	4
P22559-UNC5/8	UNC 5/8-11	15.875	11	110	20	12	9	12	4
P22559-UNC3/4	UNC 3/4-10	19.05	10	125	25	14	11	14	4
P22559-UNC7/8	UNC 7/8-9	22.225	9	140	25	18	14.5	17	4
P22559-UNC1	UNC 1"-8	25.4	8	160	30	18	14.5	17	4
P22559-UNC1.1/4	UNC 1.1/4-7	31.75	7	180	35	22	18	21	4

HSS-E machine taps

Paradur® X-pert P

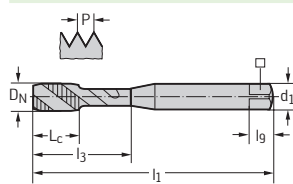


– For long-chipping materials



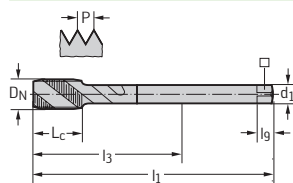
	P	M	K	N	S	H	O
uncoated	●	●	●	●	●	●	●

DIN 2184-1



Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
P22519-UNC2	UNC #2-56	2.184	56	45	4	12	2.8	2.1	5	3
P22519-UNC3	UNC #3-48	2.515	48	50	4	12.5	2.8	2.1	5	3
P22519-UNC4	UNC #4-40	2.845	40	56	6	18	3.5	2.7	6	3
P22519-UNC5	UNC #5-40	3.175	40	56	6	18	3.5	2.7	6	3
P22519-UNC6	UNC #6-32	3.505	32	56	6.5	20	4	3	6	3
P22519-UNC8	UNC #8-32	4.166	32	63	7	21	4.5	3.4	6	3
P22519-UNC10	UNC #10-24	4.826	24	70	8	25	6	4.9	8	3
P22519-UNC12	UNC #12-24	5.486	24	80	10	30	6	4.9	8	3
P22519-UNC1/4	UNC 1/4-20	6.35	20	80	10	30	7	5.5	8	3
P22519-UNC5/16	UNC 5/16-18	7.938	18	90	12	35	8	6.2	9	3
P22519-UNC3/8	UNC 3/8-16	9.525	16	100	15	39	10	8	11	3

DIN 2184-1



Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
P22569-UNC7/16	UNC 7/16-14	11.113	14	100	15	76	8	6.2	9	3
P22569-UNC1/2	UNC 1/2-13	12.7	13	110	18	83	9	7	10	4
P22569-UNC9/16	UNC 9/16-12	14.288	12	110	20	81	11	9	12	4
P22569-UNC5/8	UNC 5/8-11	15.875	11	110	20	68	12	9	12	4
P22569-UNC3/4	UNC 3/4-10	19.05	10	125	25	81	14	11	14	4
P22569-UNC7/8	UNC 7/8-9	22.225	9	140	25	93	18	14.5	17	4
P22569-UNC1	UNC 1"-8	25.4	8	160	30	113	18	14.5	17	4
P22569-UNC1.1/8	UNC 1.1/8-7	28.575	7	180	35	115	22	18	21	4
P22569-UNC1.1/4	UNC 1.1/4-7	31.75	7	180	35	115	22	18	21	4
P22569-UNC1.1/2	UNC 1.1/2-6	38.1	6	200	40	131	28	22	25	4

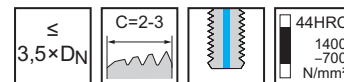
C1

HSS-E machine taps

TC130 Supreme



– WY80AA: High Performance



	P	M	K	N	S	H	O
WY80AA (TiN)	●	●	●	●	●	●	●

DIN 2184-1	Designation WY80AA	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	TC130-UNC1/4-C1-	UNC 1/4-20	6.35	20	80	15	30	7	5.5	8	3
	TC130-UNC5/16-C1-	UNC 5/16-18	7.938	18	90	18	35	8	6.2	9	3
	TC130-UNC3/8-C1-	UNC 3/8-16	9.525	16	100	20	39	10	8	11	3

Ordering example for the grade WY80AA: TC130-UNC1/4-C1-WY80AA

DIN 2184-1	Designation WY80AA	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	TC130-UNC1/2-L1-	UNC 1/2-13	12.7	13	110	23	83	9	7	10	3
	TC130-UNC5/8-L1-	UNC 5/8-11	15.875	11	110	25	68	12	9	12	3
	TC130-UNC3/4-L1-	UNC 3/4-10	19.05	10	125	30	81	14	11	14	3
	TC130-UNC1-L1-	UNC 1"-8	25.4	8	160	36	113	18	14.5	17	4

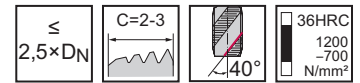
Ordering example for the grade WY80AA: TC130-UNC1-L1-WY80AA

HSS-E machine taps

Paradur® X-pert M



– For long-chipping materials



	P	M	K	N	S	H	O
VAP	●	●●	●	●	●	●	●
TIN	●	●●	●	●	●	●	●

DIN 2184-1	Designation TIN	Designation VAP	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	M2251305-UNC2	M22513-UNC2	UNC #2-56	2.184	56	45	4	12	2.8	2.1	5	3
	M2251305-UNC3	M22513-UNC3	UNC #3-48	2.515	48	50	4	12.5	2.8	2.1	5	3
	M2251305-UNC4	M22513-UNC4	UNC #4-40	2.845	40	56	6	18	3.5	2.7	6	3
	M2251305-UNC5	M22513-UNC5	UNC #5-40	3.175	40	56	6	18	3.5	2.7	6	3
	M2251305-UNC6	M22513-UNC6	UNC #6-32	3.505	32	56	6.5	20	4	3	6	3
	M2251305-UNC8	M22513-UNC8	UNC #8-32	4.166	32	63	7	21	4.5	3.4	6	3
	M2251305-UNC10	M22513-UNC10	UNC #10-24	4.826	24	70	8	25	6	4.9	8	3
	M2251305-UNC12	M22513-UNC12	UNC #12-24	5.486	24	80	10	30	6	4.9	8	3
	M2251305-UNC1/4	M22513-UNC1/4	UNC 1/4-20	6.35	20	80	10	30	7	5.5	8	3

UNC 2: Without thread taper

DIN 2184-1	Designation TIN	Designation VAP	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	M2256305-UNC5/16	M22563-UNC5/16	UNC 5/16-18	7.938	18	90	12	67	6	4.9	8	3
	M2256305-UNC3/8	M22563-UNC3/8	UNC 3/8-16	9.525	16	100	15	77	7	5.5	8	3
	M2256305-UNC7/16	M22563-UNC7/16	UNC 7/16-14	11.113	14	100	15	76	8	6.2	9	3
	M2256305-UNC1/2	M22563-UNC1/2	UNC 1/2-13	12.7	13	110	18	83	9	7	10	4
	M2256305-UNC9/16	M22563-UNC9/16	UNC 9/16-12	14.288	12	110	20	81	11	9	12	4
	M2256305-UNC5/8	M22563-UNC5/8	UNC 5/8-11	15.875	11	110	20	68	12	9	12	4
	M2256305-UNC3/4	M22563-UNC3/4	UNC 3/4-10	19.05	10	125	25	81	14	11	14	4
	M2256305-UNC7/8	M22563-UNC7/8	UNC 7/8-9	22.225	9	140	25	93	18	14.5	17	4
	M2256305-UNC1	M22563-UNC1	UNC 1"-8	25.4	8	160	30	113	18	14.5	17	4
		M22563-UNC1.1/8	UNC 1.1/8-7	28.575	7	180	35	115	22	18	21	5
		M22563-UNC1.1/4	UNC 1.1/4-7	31.75	7	180	35	115	22	18	21	5
		M22563-UNC1.1/2	UNC 1.1/2-6	38.1	6	200	40	131	28	22	25	5

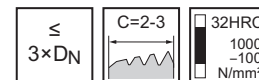
C1

HSS-E PM machine taps

Paradur® Eco CI

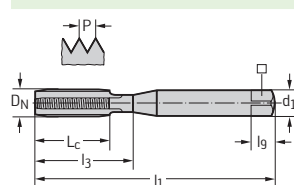


– For short-chipping materials



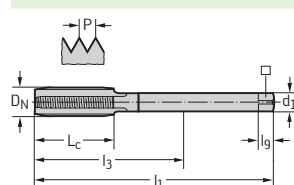
	P	M	K	N	S	H	O
NID			●●	●●			●●

DIN 2184-1



Designation NID	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
E22314-UNC6	UNC #6-32	3.505	32	56	11	20	4	3	6	3
E22314-UNC8	UNC #8-32	4.166	32	63	12	21	4.5	3.4	6	3
E22314-UNC10	UNC #10-24	4.826	24	70	13	25	6	4.9	8	4
E22314-UNC1/4	UNC 1/4-20	6.35	20	80	15	30	7	5.5	8	4

DIN 2184-1



Designation NID	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
E22364-UNC5/16	UNC 5/16-18	7.938	18	90	18	67	6	4.9	8	4
E22364-UNC3/8	UNC 3/8-16	9.525	16	100	20	77	7	5.5	8	4
E22364-UNC7/16	UNC 7/16-14	11.113	14	100	20	76	8	6.2	9	4
E22364-UNC1/2	UNC 1/2-13	12.7	13	110	23	83	9	7	10	4
E22364-UNC9/16	UNC 9/16-12	14.288	12	110	25	81	11	9	12	4
E22364-UNC5/8	UNC 5/8-11	15.875	11	110	25	68	12	9	12	4
E22364-UNC3/4	UNC 3/4-10	19.05	10	125	30	81	14	11	14	4
E22364-UNC7/8	UNC 7/8-9	22.225	9	140	30	93	18	14.5	17	4

NID = Nidamised (NIT+VAP)

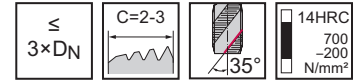
C1

HSS-E machine taps

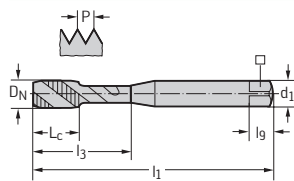
Paradur® X-pert N



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated				●	●		●

DIN 2184-1											
	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	N22516-UNC2	UNC #2-56	2.184	56	45	4	12	2.8	2.1	5	2
	N22516-UNC4	UNC #4-40	2.845	40	56	6	18	3.5	2.7	6	2
	N22516-UNC6	UNC #6-32	3.505	32	56	6.5	20	4	3	6	2
	N22516-UNC8	UNC #8-32	4.166	32	63	7	21	4.5	3.4	6	2
	N22516-UNC10	UNC #10-24	4.826	24	70	8	25	6	4.9	8	2
	N22516-UNC1/4	UNC 1/4-20	6.35	20	80	10	30	7	5.5	8	2
	N22516-UNC5/16	UNC 5/16-18	7.938	18	90	12	35	8	6.2	9	2
	N22516-UNC3/8	UNC 3/8-16	9.525	16	100	15	39	10	8	11	2

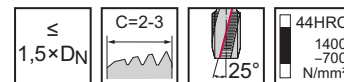
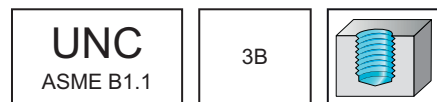
C1

HSS-E PM machine taps

Paradur® Ni



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●	●	●	●	●	●	●

~DIN 2184-1											
Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N	
224104-UNC2	UNC #2-56	2.184	56	45	9	9	2.8	2.1	5	3	
224104-UNC4	UNC #4-40	2.845	40	56	10	10	3.5	2.7	6	3	
224104-UNC6	UNC #6-32	3.505	32	56	12	12	4	3	6	3	
224104-UNC8	UNC #8-32	4.166	32	63	13	13	4.5	3.4	6	3	
224104-UNC1/4	UNC 1/4-20	6.35	20	80	15	25	7	5.5	8	3	
224104-UNC5/16	UNC 5/16-18	7.938	18	90	18	29.5	8	6.2	9	3	
224104-UNC3/8	UNC 3/8-16	9.525	16	100	20	33.5	10	8	11	4	

≤ UNC 8: Without reduced neck after the thread

DIN 2184-1											
Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N	
224604-UNC7/16	UNC 7/16-14	11.113	14	100	20	76	8	6.2	9	4	
224604-UNC1/2	UNC 1/2-13	12.7	13	110	23	83	9	7	10	4	
224604-UNC9/16	UNC 9/16-12	14.288	12	110	25	81	11	9	12	4	
224604-UNC3/4	UNC 3/4-10	19.05	10	125	30	81	14	11	14	5	

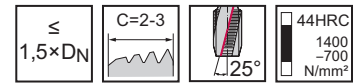
C1

HSS-E PM machine taps

Paradur® Ni



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●	●	●	●	●	●	●
TICN	●	●	●	●	●	●	●

~DIN 2184-1		Designation TICN	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
			224102-UNC2	UNC #2-56	2.184	56	45	9	9	2.8	2.1	5	3
			224102-UNC3	UNC #3-48	2.515	48	50	9	9	2.8	2.1	5	3
		22410206-UNC4	224102-UNC4	UNC #4-40	2.845	40	56	10	10	3.5	2.7	6	3
		22410206-UNC5		UNC #5-40	3.175	40	56	10	10	3.5	2.7	6	3
			224102-UNC6	UNC #6-32	3.505	32	56	12	12	4	3	6	3
		22410206-UNC8	224102-UNC8	UNC #8-32	4.166	32	63	13	13	4.5	3.4	6	3
		22410206-UNC10	224102-UNC10	UNC #10-24	4.826	24	70	16	16	6	4.9	8	3
		22410206-UNC1/4	224102-UNC1/4	UNC 1/4-20	6.35	20	80	15	25	7	5.5	8	3
		22410206-UNC5/16	224102-UNC5/16	UNC 5/16-18	7.938	18	90	18	29.5	8	6.2	9	3
		22410206-UNC3/8	224102-UNC3/8	UNC 3/8-16	9.525	16	100	20	33.5	10	8	11	4

≤ UNC 10: Without reduced neck after the thread

DIN 2184-1		Designation TICN	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
			224602-UNC7/16	UNC 7/16-14	11.113	14	100	20	76	8	6.2	9	4
		22460206-UNC1/2	224602-UNC1/2	UNC 1/2-13	12.7	13	110	23	83	9	7	10	4
		22460206-UNC5/8	224602-UNC5/8	UNC 5/8-11	15.875	11	110	25	68	12	9	12	4
		22460206-UNC3/4	224602-UNC3/4	UNC 3/4-10	19.05	10	125	30	81	14	11	14	5

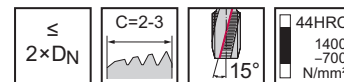
C1

HSS-E PM machine taps

Paradur® Ti



- Recommended with oil
- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●●	●●	●●	●●	●●	●●

~DIN 2184-1											
Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N	
224164-UNC6	UNC #6-32	3.505	32	56	12	12	4	3	6	3	
224164-UNC8	UNC #8-32	4.166	32	63	13	13	4.5	3.4	6	3	
224164-UNC10	UNC #10-24	4.826	24	70	16	16	6	4.9	8	3	
224164-UNC1/4	UNC 1/4-20	6.35	20	80	15	25	7	5.5	8	3	
224164-UNC5/16	UNC 5/16-18	7.938	18	90	18	29.5	8	6.2	9	3	
224164-UNC3/8	UNC 3/8-16	9.525	16	100	20	33.5	10	8	11	3	

≤ UNC 10: Without reduced neck after the thread

DIN 2184-1											
Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N	
224664-UNC7/16	UNC 7/16-14	11.113	14	100	20	76	8	6.2	9	4	
224664-UNC1/2	UNC 1/2-13	12.7	13	110	23	83	9	7	10	4	

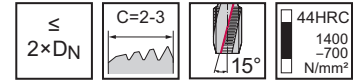
C1

HSS-E PM machine taps

Paradur® Ti



- Recommended with oil
- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●●	●●	●●	●●	●●	●●

~DIN 2184-1											
Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N	
22416-UNC6	UNC #6-32	3.505	32	56	12	12	4	3	6	3	
22416-UNC8	UNC #8-32	4.166	32	63	13	13	4.5	3.4	6	3	
22416-UNC10	UNC #10-24	4.826	24	70	16	16	6	4.9	8	3	
22416-UNC12	UNC #12-24	5.486	24	80	15	23	6	4.9	8	3	
22416-UNC1/4	UNC 1/4-20	6.35	20	80	15	25	7	5.5	8	3	
22416-UNC5/16	UNC 5/16-18	7.938	18	90	18	29.5	8	6.2	9	3	
22416-UNC3/8	UNC 3/8-16	9.525	16	100	20	33.5	10	8	11	3	

≤ UNC 10: Without reduced neck after the thread

DIN 2184-1											
Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N	
22466-UNC7/16	UNC 7/16-14	11.113	14	100	20	76	8	6.2	9	4	
22466-UNC1/2	UNC 1/2-13	12.7	13	110	23	83	9	7	10	4	
22466-UNC5/8	UNC 5/8-11	15.875	11	110	25	68	12	9	12	4	

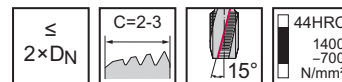
C1

HSS-E PM machine taps

Paradur® Ti



- Recommended with oil
- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●	●	●	●●	●	●

~DIN 2184-1											
Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N	
22416-UNC6	UNC #6-32	3.505	32	56	12	12	4	3	6	3	
22416-UNC8	UNC #8-32	4.166	32	63	13	13	4.5	3.4	6	3	
22416-UNC10	UNC #10-24	4.826	24	70	16	16	6	4.9	8	3	
22416-UNC12	UNC #12-24	5.486	24	80	15	23	6	4.9	8	3	
22416-UNC1/4	UNC 1/4-20	6.35	20	80	15	25	7	5.5	8	3	
22416-UNC5/16	UNC 5/16-18	7.938	18	90	18	29.5	8	6.2	9	3	
22416-UNC3/8	UNC 3/8-16	9.525	16	100	20	33.5	10	8	11	3	

≤ UNC 10: Without reduced neck after the thread

DIN 2184-1											
Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N	
22466-UNC7/16	UNC 7/16-14	11.113	14	100	20	76	8	6.2	9	4	
22466-UNC1/2	UNC 1/2-13	12.7	13	110	23	83	9	7	10	4	
22466-UNC5/8	UNC 5/8-11	15.875	11	110	25	68	12	9	12	4	

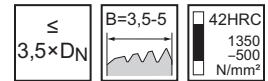
C1

HSS-E PM machine taps

Prototex® Eco Plus



– For long-chipping materials



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●	●	●	●

DIN 2184-1		Designation THL	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	EP2321302-UNF4	UNF #4-48		2.845	48	56	9	18	3.5	2.7	6	3
	EP2321302-UNF6	UNF #6-40		3.505	40	56	11	20	4	3	6	3
	EP2321302-UNF8	UNF #8-36		4.166	36	63	12	21	4.5	3.4	6	3
	EP2321302-UNF10	UNF #10-32		4.826	32	70	13	25	6	4.9	8	3
	EP2321302-UNF1/4	UNF 1/4-28		6.35	28	80	15	30	7	5.5	8	3

DIN 2184-1		Designation THL	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	EP2326302-UNF5/16	UNF 5/16-24		7.938	24	90	18	67	6	4.9	8	3
	EP2326302-UNF3/8	UNF 3/8-24		9.525	24	100	20	77	7	5.5	8	3
	EP2326302-UNF1/2	UNF 1/2-20		12.7	20	100	21	73	9	7	10	4
	EP2326302-UNF5/8	UNF 5/8-18		15.875	18	100	21	58	12	9	12	4

C1

HSS-E machine taps

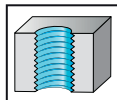
TC216 Perform



– For long-chipping materials

UNF
ASME B1.1

2B



$\leq$
 $3 \times D_N$

$B=3,5-5$

32HRC
1000
-350
N/mm²

	P	M	K	N	S	H	O
WY80AA (TiN)	●	●	●	●	●	●	●

DIN 371	Designation WY80AA	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	TC216-UNF6-C0-	UNF #6-40	3.505	40	56	11	20	4	3	6	3
	TC216-UNF10-C0-	UNF #10-32	4.826	32	70	13	25	6	4.9	8	3
	TC216-UNF1/4-C0-	UNF 1/4-28	6.35	28	80	15	30	7	5.5	8	3
	TC216-UNF5/16-C0-	UNF 5/16-24	7.938	24	90	18	35	8	6.2	9	3
	TC216-UNF3/8-C0-	UNF 3/8-24	9.525	24	100	20	39	10	8	11	3

Ordering example for the grade WY80AA: TC216-UNF1/4-C0-WY80AA

DIN 376	Designation WY80AA	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	TC216-UNF7/16-L0-	UNF 7/16-20	11.113	20	100	20	76	8	6.2	9	3
	TC216-UNF1/2-L0-	UNF 1/2-20	12.7	20	100	21	73	9	7	10	4

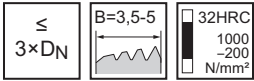
Ordering example for the grade WY80AA: TC216-UNF1/2-L0-WY80AA

C1

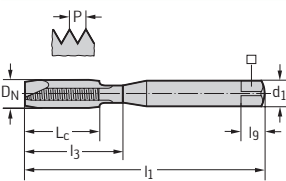
HSS-E machine taps
Prototex® X-pert P



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●			●			●

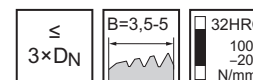
DIN 2184-1-B											
	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	P23200-UNF4	UNF #4-48	2.845	48	56	9	18	3.5	2.7	6	2
	P23200-UNF6	UNF #6-40	3.505	40	56	11	20	4	3	6	2
	P23200-UNF8	UNF #8-36	4.166	36	63	12	21	4.5	3.4	6	2
	P23200-UNF10	UNF #10-32	4.826	32	70	13	25	6	4.9	8	2
	P23200-UNF12	UNF #12-28	5.486	28	80	15	30	6	4.9	8	3
	P23200-UNF1/4	UNF 1/4-28	6.35	28	80	15	30	7	5.5	8	3

HSS-E machine taps

Prototex® X-pert P

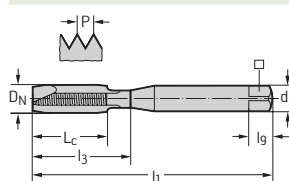


– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●	●	●	●	●	●	●
TIN	●	●	●	●	●	●	●

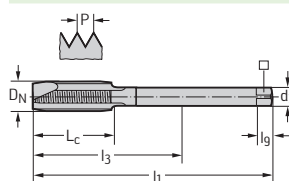
DIN 2184-1



Designation TIN	Designation uncoated	DN-P	DN mm	Threads per inch	l ₁ mm	l _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	P23210-UNF0	UNF #0-80	1.524	80	40	8	8	2.5	2.1	5	2
	P23210-UNF1	UNF #1-72	1.854	72	45	6	9	2.8	2.1	5	2
	P23210-UNF2	UNF #2-64	2.184	64	45	7	12	2.8	2.1	5	2
	P23210-UNF3	UNF #3-56	2.515	56	50	8	12.5	2.8	2.1	5	2
	P23210-UNF4	UNF #4-48	2.845	48	56	9	18	3.5	2.7	6	2
	P23210-UNF6	UNF #6-40	3.505	40	56	11	20	4	3	6	2
	P23210-UNF8	UNF #8-36	4.166	36	63	12	21	4.5	3.4	6	2
	P23210-UNF10	UNF #10-32	4.826	32	70	13	25	6	4.9	8	2
	P23210-UNF12	UNF #12-28	5.486	28	80	15	30	6	4.9	8	3
P2321005-UNF1/4	P23210-UNF1/4	UNF 1/4-28	6.35	28	80	15	30	7	5.5	8	3

UNF 0: Without reduced neck after the thread

DIN 2184-1



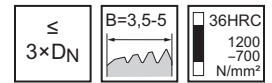
Designation TIN	Designation uncoated	DN-P	DN mm	Threads per inch	l ₁ mm	l _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
P2336005-UNF5/16	P23360-UNF5/16	UNF 5/16-24	7.938	24	90	18	67	6	4.9	8	3
P2336005-UNF3/8	P23360-UNF3/8	UNF 3/8-24	9.525	24	100	20	77	7	5.5	8	3
P2336005-UNF7/16	P23360-UNF7/16	UNF 7/16-20	11.113	20	100	20	76	8	6.2	9	3
P2336005-UNF1/2	P23360-UNF1/2	UNF 1/2-20	12.7	20	100	21	73	9	7	10	4
	P23360-UNF9/16	UNF 9/16-18	14.288	18	100	21	71	11	9	12	4
P2336005-UNF5/8	P23360-UNF5/8	UNF 5/8-18	15.875	18	100	21	58	12	9	12	4
P2336005-UNF3/4	P23360-UNF3/4	UNF 3/4-16	19.05	16	110	24	66	14	11	14	4
	P23360-UNF7/8	UNF 7/8-14	22.225	14	125	24	78	18	14.5	17	4
	P23360-UNF1	UNF 1"-12	25.4	12	140	26	93	18	14.5	17	4
	P23360-UNF1.1/4	UNF 1.1/4-12	31.75	12	150	26	85	22	18	21	4
	P23360-UNF1.1/8	UNF 1.1/8-12	28.575	12	150	26	85	22	18	21	4
	P23360-UNF1.1/2	UNF 1.1/2-12	38.1	12	170	28	101	28	22	25	4
	P23360-UNF1.3/8	UNF 1.3/8-12	34.925	12	170	28	101	28	22	25	4

HSS-E machine taps

Prototex® X-pert M



– For long-chipping materials



	P	M	K	N	S	H	O
VAP	●	●●	●	●	●	●	●
TIN	●	●●	●	●	●	●	●

DIN 2184-1	Designation TIN	Designation VAP	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
		M23213-UNF5	UNF #5-44	3.175	44	56	10	18	3.5	2.7	6	2
		M23213-UNF6	UNF #6-40	3.505	40	56	11	20	4	3	6	2
		M23213-UNF8	UNF #8-36	4.166	36	63	12	21	4.5	3.4	6	2
	M2321305-UNF10	M23213-UNF10	UNF #10-32	4.826	32	70	13	25	6	4.9	8	3
		M23213-UNF12	UNF #12-28	5.486	28	80	15	30	6	4.9	8	3
	M2321305-UNF1/4	M23213-UNF1/4	UNF 1/4-28	6.35	28	80	15	30	7	5.5	8	3

DIN 2184-1	Designation TIN	Designation VAP	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	M2326305-UNF5/16	M23263-UNF5/16	UNF 5/16-24	7.938	24	90	18	67	6	4.9	8	3
	M2326305-UNF3/8	M23263-UNF3/8	UNF 3/8-24	9.525	24	100	20	77	7	5.5	8	3
	M2326305-UNF7/16	M23263-UNF7/16	UNF 7/16-20	11.113	20	100	20	76	8	6.2	9	3
	M2326305-UNF1/2	M23263-UNF1/2	UNF 1/2-20	12.7	20	100	21	73	9	7	10	4
		M23263-UNF9/16	UNF 9/16-18	14.288	18	100	21	71	11	9	12	4
		M23263-UNF5/8	UNF 5/8-18	15.875	18	100	21	58	12	9	12	4
		M23263-UNF3/4	UNF 3/4-16	19.05	16	110	24	66	14	11	14	4
		M23263-UNF7/8	UNF 7/8-14	22.225	14	125	24	78	18	14.5	17	4
		M23263-UNF1	UNF 1"-12	25.4	12	140	26	93	18	14.5	17	4

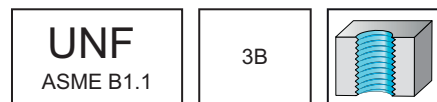
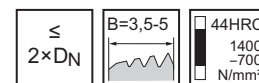
C1

HSS-E PM machine taps

Prototex® TiNi



- Recommended with oil
- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●	●	●	●	●	●	●
TiCN	●	●	●	●	●	●	●

~DIN 2184-1	Designation TiCN	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
		23207-UNF4	UNF #4-48	2.845	48	56	10	10	3.5	2.7	6	2
		23207-UNF5	UNF #5-44	3.175	44	56	10	10	3.5	2.7	6	2
		23207-UNF6	UNF #6-40	3.505	40	56	12	12	4	3	6	3
	2320706-UNF10	23207-UNF10	UNF #10-32	4.826	32	70	16	16	6	4.9	8	3
	2320706-UNF1/4	23207-UNF1/4	UNF 1/4-28	6.35	28	80	15	25	7	5.5	8	3
	2320706-UNF5/16	23207-UNF5/16	UNF 5/16-24	7.938	24	90	18	29.5	8	6.2	9	3
	2320706-UNF3/8	23207-UNF3/8	UNF 3/8-24	9.525	24	100	20	33.5	10	8	11	3

≤ UNF 10: Without reduced neck after the thread

DIN 2184-1	Designation TiCN	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	2325706-UNF7/16	23257-UNF7/16	UNF 7/16-20	11.113	20	100	20	76	8	6.2	9	4
	2325706-UNF1/2	23257-UNF1/2	UNF 1/2-20	12.7	20	100	23	73	9	7	10	4
	2325706-UNF5/8	23257-UNF5/8	UNF 5/8-18	15.875	18	100	25	58	12	9	12	4

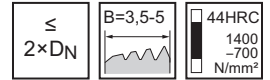
C1

HSS-E PM machine taps

Prototex® TiNi



- Recommended with oil
- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●	●	●	●	●	●	●
TICN	●	●	●	●	●	●	●

~DIN 2184-1	Designation TICN	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	2321706-UNF5	23217-UNF5	UNF #5-44	3.175	44	56	10	10	3.5	2.7	6	2
		23217-UNF6	UNF #6-40	3.505	40	56	12	12	4	3	6	3
	2321706-UNF10	23217-UNF10	UNF #10-32	4.826	32	70	16	16	6	4.9	8	3
	2321706-UNF1/4	23217-UNF1/4	UNF 1/4-28	6.35	28	80	15	25	7	5.5	8	3
	2321706-UNF5/16	23217-UNF5/16	UNF 5/16-24	7.938	24	90	18	29.5	8	6.2	9	3
	2321706-UNF3/8	23217-UNF3/8	UNF 3/8-24	9.525	24	100	20	33.5	10	8	11	3

≤ UNF 10: Without reduced neck after the thread

DIN 2184-1	Designation TICN	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	2326706-UNF7/16	23267-UNF7/16	UNF 7/16-20	11.113	20	100	20	76	8	6.2	9	4
	2326706-UNF1/2	23267-UNF1/2	UNF 1/2-20	12.7	20	100	23	73	9	7	10	4
	2326706-UNF5/8	23267-UNF5/8	UNF 5/8-18	15.875	18	100	25	58	12	9	12	4

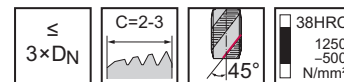
C1

HSS-E PM machine taps

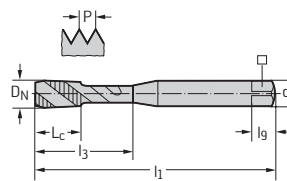
Paradur® Eco Plus

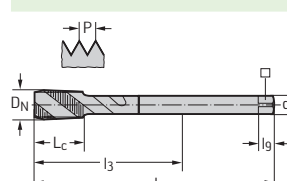


– For long-chipping materials



	P	M	K	N	S	H	O
THL	●	●	●	●	●	●	●

~DIN 2184-1	Designation THL	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	EP2351302-UNF4	UNF #4-48	2.845	48	56	6	11	3.5	2.7	6	3
	EP2351302-UNF6	UNF #6-40	3.505	40	56	6.5	13.1	4	3	6	3
	EP2351302-UNF8	UNF #8-36	4.166	36	63	7	17.4	4.5	3.4	6	3
	EP2351302-UNF10	UNF #10-32	4.826	32	70	8	20.7	6	4.9	8	3
	EP2351302-UNF1/4	UNF 1/4-28	6.35	28	80	10	25.9	7	5.5	8	3

DIN 2184-1	Designation THL	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	EP2356302-UNF5/16	UNF 5/16-24	7.938	24	90	12	67	6	4.9	8	3
	EP2356302-UNF3/8	UNF 3/8-24	9.525	24	100	15	77	7	5.5	8	3
	EP2356302-UNF1/2	UNF 1/2-20	12.7	20	100	13	73	9	7	10	4
	EP2356302-UNF5/8	UNF 5/8-18	15.875	18	100	15	58	12	9	12	4

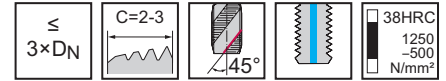
C1

HSS-E PM machine taps

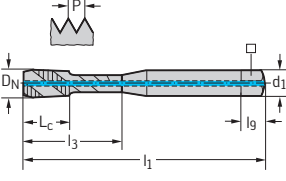
Paradur® Eco Plus

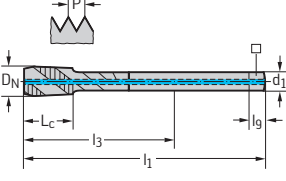


– For long-chipping materials



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●	●●	●●	●●

~DIN 2184-1		Designation THL	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
		EP2351312-UNF1/4	UNF 1/4-28	6.35	28	80	10	25.9	7	5.5	8	3

DIN 2184-1		Designation THL	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
		EP2356312-UNF5/16	UNF 5/16-24	7.938	24	90	12	67	6	4.9	8	3
		EP2356312-UNF3/8	UNF 3/8-24	9.525	24	100	15	77	7	5.5	8	3
		EP2356312-UNF1/2	UNF 1/2-20	12.7	20	100	13	73	9	7	10	4
		EP2356312-UNF5/8	UNF 5/8-18	15.875	18	100	15	58	12	9	12	4

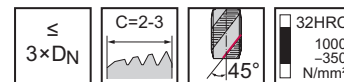
C1

HSS-E machine taps

TC115 Perform



– For long-chipping materials



	P	M	K	N	S	H	O
WY80AA (TiN)	●	●	●	●	●	●	●

DIN 371	Designation WY80AA	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC115-UNF6-C0-	UNF #6-40	3.505	40	56	6.5	20	4	3	6	3
	TC115-UNF10-C0-	UNF #10-32	4.826	32	70	8	25	6	4.9	8	3
	TC115-UNF1/4-C0-	UNF 1/4-28	6.35	28	80	10	30	7	5.5	8	3
	TC115-UNF5/16-C0-	UNF 5/16-24	7.938	24	90	12	35	8	6.2	9	3
	TC115-UNF3/8-C0-	UNF 3/8-24	9.525	24	100	15	39	10	8	11	3

Ordering example for the grade WY80AA: TC115-UNF1/4-C0-WY80AA

DIN 376	Designation WY80AA	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC115-UNF7/16-L0-	UNF 7/16-20	11.113	20	100	15	76	8	6.2	9	3
	TC115-UNF1/2-L0-	UNF 1/2-20	12.7	20	100	13	73	9	7	10	4

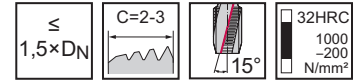
Ordering example for the grade WY80AA: TC115-UNF1/2-L0-WY80AA

HSS-E machine taps

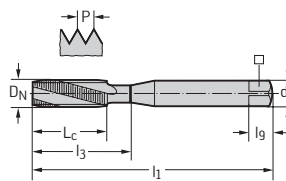
Paradur® N



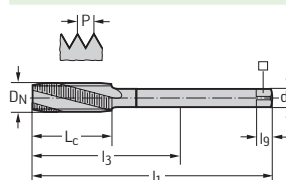
– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●●	●●	●●	●●	●●	●●

DIN 2184-1	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	23400-UNF0	UNF #0-80	1.524	80	40	6	6	2.5	2.1	5	3
	23400-UNF4	UNF #4-48	2.845	48	56	6	18	3.5	2.7	6	3
	23400-UNF8	UNF #8-36	4.166	36	63	7	21	4.5	3.4	6	3
	23400-UNF10	UNF #10-32	4.826	32	70	8	25	6	4.9	8	3
	23400-UNF12	UNF #12-28	5.486	28	80	10	30	6	4.9	8	3
	23400-UNF1/4	UNF 1/4-28	6.35	28	80	10	30	7	5.5	8	3
	23400-UNF5/16	UNF 5/16-24	7.938	24	90	12	35	8	6.2	9	3
	23400-UNF3/8	UNF 3/8-24	9.525	24	100	15	39	10	8	11	3

UNF 0: Without reduced neck after the thread

DIN 2184-1	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	23450-UNF5/16	UNF 5/16-24	7.938	24	90	13	67	6	4.9	8	3
	23450-UNF3/8	UNF 3/8-24	9.525	24	100	15	77	7	5.5	8	3
	23450-UNF7/16	UNF 7/16-20	11.113	20	100	15	76	8	6.2	9	3
	23450-UNF1/2	UNF 1/2-20	12.7	20	100	13	73	9	7	10	3
	23450-UNF9/16	UNF 9/16-18	14.288	18	100	15	71	11	9	12	4
	23450-UNF3/4	UNF 3/4-16	19.05	16	110	17	66	14	11	14	4
	23450-UNF7/8	UNF 7/8-14	22.225	14	125	18	78	18	14.5	17	4

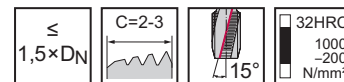
C1

HSS-E machine taps

Paradur® N

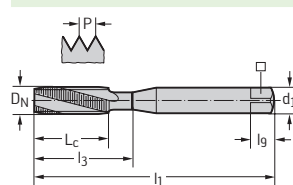


– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●●	●●	●●	●●	●●	●●

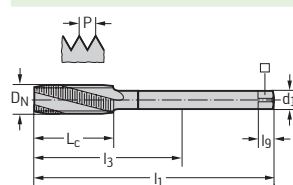
DIN 2184-1



Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
23410-UNF0	UNF #0-80	1.524	80	40	6	6	2.5	2.1	5	3
23410-UNF1	UNF #1-72	1.854	72	45	4	9	2.8	2.1	5	3
23410-UNF2	UNF #2-64	2.184	64	45	4	12	2.8	2.1	5	3
23410-UNF4	UNF #4-48	2.845	48	56	6	18	3.5	2.7	6	3
23410-UNF8	UNF #8-36	4.166	36	63	7	21	4.5	3.4	6	3
23410-UNF10	UNF #10-32	4.826	32	70	8	25	6	4.9	8	3
23410-UNF12	UNF #12-28	5.486	28	80	10	30	6	4.9	8	3
23410-UNF1/4	UNF 1/4-28	6.35	28	80	10	30	7	5.5	8	3
23410-UNF5/16	UNF 5/16-24	7.938	24	90	12	35	8	6.2	9	3
23410-UNF3/8	UNF 3/8-24	9.525	24	100	15	39	10	8	11	3

UNF 0: Without reduced neck after the thread

DIN 2184-1



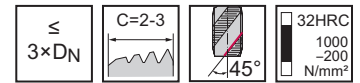
Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
23460-UNF5/16	UNF 5/16-24	7.938	24	90	13	67	6	4.9	8	3
23460-UNF3/8	UNF 3/8-24	9.525	24	100	15	77	7	5.5	8	3
23460-UNF7/16	UNF 7/16-20	11.113	20	100	15	76	8	6.2	9	3
23460-UNF1/2	UNF 1/2-20	12.7	20	100	13	73	9	7	10	3
23460-UNF9/16	UNF 9/16-18	14.288	18	100	15	71	11	9	12	4
23460-UNF5/8	UNF 5/8-18	15.875	18	100	15	58	12	9	12	4
23460-UNF3/4	UNF 3/4-16	19.05	16	110	17	66	14	11	14	4
23460-UNF7/8	UNF 7/8-14	22.225	14	125	18	78	18	14.5	17	4

HSS-E machine taps

Paradur® X-pert P



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●	●	●	●	●	●	●
TIN	●	●	●	●	●	●	●

DIN 2184-1	Designation TIN	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
		P23519-UNF1	UNF #1-72	1.854	72	45	4	9	2.8	2.1	5	3
		P23519-UNF2	UNF #2-64	2.184	64	45	4	12	2.8	2.1	5	3
		P23519-UNF3	UNF #3-56	2.515	56	50	4	12.5	2.8	2.1	5	3
		P23519-UNF4	UNF #4-48	2.845	48	56	6	18	3.5	2.7	6	3
		P23519-UNF5	UNF #5-44	3.175	44	56	6	18	3.5	2.7	6	3
		P23519-UNF6	UNF #6-40	3.505	40	56	6.5	20	4	3	6	3
		P23519-UNF8	UNF #8-36	4.166	36	63	7	21	4.5	3.4	6	3
	P2351905-UNF10	P23519-UNF10	UNF #10-32	4.826	32	70	8	25	6	4.9	8	3
		P23519-UNF12	UNF #12-28	5.486	28	80	10	30	6	4.9	8	3
	P2351905-UNF1/4	P23519-UNF1/4	UNF 1/4-28	6.35	28	80	10	30	7	5.5	8	3

DIN 2184-1	Designation TIN	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	P2356905-UNF5/16	P23569-UNF5/16	UNF 5/16-24	7.938	24	90	12	67	6	4.9	8	3
	P2356905-UNF3/8	P23569-UNF3/8	UNF 3/8-24	9.525	24	100	15	77	7	5.5	8	3
	P2356905-UNF7/16	P23569-UNF7/16	UNF 7/16-20	11.113	20	100	15	76	8	6.2	9	3
	P2356905-UNF1/2	P23569-UNF1/2	UNF 1/2-20	12.7	20	100	13	73	9	7	10	4
	P2356905-UNF9/16	P23569-UNF9/16	UNF 9/16-18	14.288	18	100	15	71	11	9	12	4
	P2356905-UNF5/8	P23569-UNF5/8	UNF 5/8-18	15.875	18	100	15	58	12	9	12	4
	P2356905-UNF3/4	P23569-UNF3/4	UNF 3/4-16	19.05	16	110	17	66	14	11	14	4
	P2356905-UNF7/8	P23569-UNF7/8	UNF 7/8-14	22.225	14	125	18	78	18	14.5	17	4
		P23569-UNF1	UNF 1"-12	25.4	12	140	20	93	18	14.5	17	5
		P23569-UNF1.1/8	UNF 1.1/8-12	28.575	12	150	20	85	22	18	21	5
		P23569-UNF1.1/4	UNF 1.1/4-12	31.75	12	150	20	85	22	18	21	5
		P23569-UNF1.3/8	UNF 1.3/8-12	34.925	12	170	22	101	28	22	25	5
		P23569-UNF1.1/2	UNF 1.1/2-12	38.1	12	170	22	101	28	22	25	5

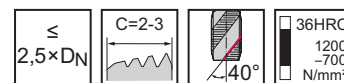
C1

HSS-E machine taps

Paradur® X-pert M



– For long-chipping materials



	P	M	K	N	S	H	O
VAP	●	●●	●	●	●	●	●
TIN	●	●●	●	●	●	●	●

DIN 2184-1	Designation TIN	Designation VAP	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	M2351305-UNF6	M23513-UNF6	UNF #6-40	3.505	40	56	6.5	20	4	3	6	3
	M2351305-UNF8	M23513-UNF8	UNF #8-36	4.166	36	63	7	21	4.5	3.4	6	3
	M2351305-UNF10	M23513-UNF10	UNF #10-32	4.826	32	70	8	25	6	4.9	8	3
	M2351305-UNF12	M23513-UNF12	UNF #12-28	5.486	28	80	10	30	6	4.9	8	3
	M2351305-UNF1/4	M23513-UNF1/4	UNF 1/4-28	6.35	28	80	10	30	7	5.5	8	3

C1

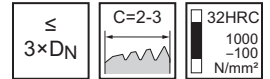
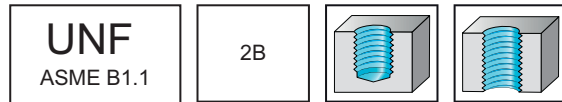
DIN 2184-1	Designation TIN	Designation VAP	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	M2356305-UNF5/16	M23563-UNF5/16	UNF 5/16-24	7.938	24	90	12	67	6	4.9	8	3
	M2356305-UNF3/8	M23563-UNF3/8	UNF 3/8-24	9.525	24	100	15	77	7	5.5	8	3
	M2356305-UNF7/16	M23563-UNF7/16	UNF 7/16-20	11.113	20	100	15	76	8	6.2	9	3
	M2356305-UNF1/2	M23563-UNF1/2	UNF 1/2-20	12.7	20	100	13	73	9	7	10	4
	M2356305-UNF9/16	M23563-UNF9/16	UNF 9/16-18	14.288	18	100	15	71	11	9	12	4
	M2356305-UNF5/8	M23563-UNF5/8	UNF 5/8-18	15.875	18	100	15	58	12	9	12	4
	M2356305-UNF3/4	M23563-UNF3/4	UNF 3/4-16	19.05	16	110	17	66	14	11	14	4
	M2356305-UNF7/8	M23563-UNF7/8	UNF 7/8-14	22.225	14	125	18	78	18	14.5	17	4
	M2356305-UNF1	M23563-UNF1	UNF 1"-12	25.4	12	140	20	93	18	14.5	17	5

HSS-E PM machine taps

Paradur® Eco CI



– For short-chipping materials



	P	M	K	N	S	H	O
NID			●●	●●			●●

DIN 2184-1											
	Designation NID	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	E23314-UNF10	UNF #10-32	4.826	32	70	13	25	6	4.9	8	4
	E23314-UNF1/4	UNF 1/4-28	6.35	28	80	15	30	7	5.5	8	4

DIN 2184-1											
	Designation NID	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	E23364-UNF5/16	UNF 5/16-24	7.938	24	90	18	67	6	4.9	8	4
	E23364-UNF3/8	UNF 3/8-24	9.525	24	100	20	77	7	5.5	8	4
	E23364-UNF7/16	UNF 7/16-20	11.113	20	100	20	76	8	6.2	9	4
	E23364-UNF1/2	UNF 1/2-20	12.7	20	100	21	73	9	7	10	4
	E23364-UNF9/16	UNF 9/16-18	14.288	18	100	21	71	11	9	12	4
	E23364-UNF5/8	UNF 5/8-18	15.875	18	100	21	58	12	9	12	4
	E23364-UNF3/4	UNF 3/4-16	19.05	16	110	24	66	14	11	14	4
	E23364-UNF7/8	UNF 7/8-14	22.225	14	125	24	78	18	14.5	17	5

NID = Nidamised (NIT+VAP)

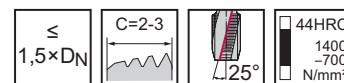
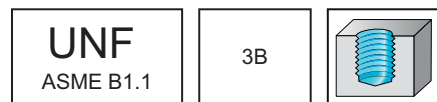
C1

HSS-E PM machine taps

Paradur® Ni



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●	●	●	●	●	●	●
TICN	●	●	●	●	●	●	●

~DIN 2184-1	Designation TICN	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	23410406-UNF8	234104-UNF8	UNF #8-36	4.166	36	63	13	42	4.5	3.4	6	3
	23410406-UNF10	234104-UNF10	UNF #10-32	4.826	32	70	16	16	6	4.9	8	3
		234104-UNF12	UNF #12-28	5.486	28	80	15	23	6	4.9	8	3
	23410406-UNF1/4	234104-UNF1/4	UNF 1/4-28	6.35	28	80	15	25	7	5.5	8	3
	23410406-UNF5/16	234104-UNF5/16	UNF 5/16-24	7.938	24	90	18	29.5	8	6.2	9	3
	23410406-UNF3/8	234104-UNF3/8	UNF 3/8-24	9.525	24	100	20	33.5	10	8	11	4

≤ UNF 10: Without reduced neck after the thread

DIN 2184-1	Designation TICN	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	23460406-UNF7/16	234604-UNF7/16	UNF 7/16-20	11.113	20	100	20	76	8	6.2	9	4
	23460406-UNF1/2	234604-UNF1/2	UNF 1/2-20	12.7	20	100	23	73	9	7	10	4
	23460406-UNF5/8	234604-UNF5/8	UNF 5/8-18	15.875	18	100	25	58	12	9	12	4

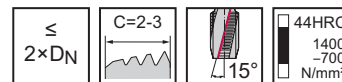
C1

HSS-E PM machine taps

Paradur® Ti



- Recommended with oil
- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●●	●●	●●	●●	●●	●●

~DIN 2184-1		Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	234164-UNF10	UNF #10-32		4.826	32	70	16	16	6	4.9	8	3
	234164-UNF1/4	UNF 1/4-28		6.35	28	80	15	25	7	5.5	8	3
	234164-UNF5/16	UNF 5/16-24		7.938	24	90	18	29.5	8	6.2	9	3
	234164-UNF3/8	UNF 3/8-24		9.525	24	100	20	33.5	10	8	11	3

≤ UNF 10: Without reduced neck after the thread

DIN 2184-1		Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	d ₁ h9 mm	□	l _g mm	N
	234664-UNF7/16	UNF 7/16-20		11.113	20	100	20	8	6.2	9	4
	234664-UNF1/2	UNF 1/2-20		12.7	20	100	23	9	7	10	4
	234664-UNF5/8	UNF 5/8-18		15.875	18	100	25	12	9	12	4

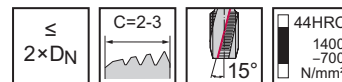
C1

HSS-E PM machine taps

Paradur® Ti



- Recommended with oil
- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●	●	●	●●	●	●

~DIN 2184-1	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	23416-UNF6	UNF #6-40	3.505	40	56	12	35	4	3	6	3
	23416-UNF10	UNF #10-32	4.826	32	70	16	16	6	4.9	8	3
	23416-UNF1/4	UNF 1/4-28	6.35	28	80	15	25	7	5.5	8	3
	23416-UNF5/16	UNF 5/16-24	7.938	24	90	18	29.5	8	6.2	9	3
	23416-UNF3/8	UNF 3/8-24	9.525	24	100	20	33.5	10	8	11	3

≤ UNF 10: Without reduced neck after the thread

DIN 2184-1	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	23466-UNF7/16	UNF 7/16-20	11.113	20	100	20	76	8	6.2	9	4
	23466-UNF1/2	UNF 1/2-20	12.7	20	100	23	73	9	7	10	4
	23466-UNF5/8	UNF 5/8-18	15.875	18	100	25	58	12	9	12	4

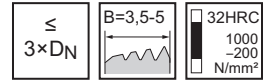
C1

HSS-E machine taps

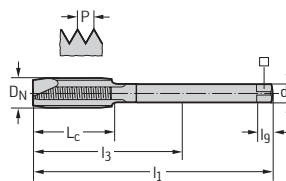
Prototex® X-pert P



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●	●	●	●	●	●

DIN 2184-1											
	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	P233602-UNEF1/4	UNEF 1/4-32	6.35	32	80	15	59	4.5	3.4	6	3
	P233602-UNEF5/16	UNEF 5/16-32	7.938	32	90	18	67	6	4.9	8	3
	P233602-UNEF3/8	UNEF 3/8-32	9.525	32	90	20	67	7	5.5	8	3
	P233602-UNEF7/16	UNEF 7/16-28	11.113	28	90	20	66	8	6.2	9	3
	P233602-UNEF1/2	UNEF 1/2-28	12.7	28	100	21	73	9	7	10	4
	P233602-UNEF9/16	UNEF 9/16-24	14.288	24	100	21	71	11	9	12	4
	P233602-UNEF5/8	UNEF 5/8-24	15.875	24	100	21	58	12	9	12	4
	P233602-UNEF11/16	UNEF 11/16-24	17.463	24	110	24	66	14	11	14	4
	P233602-UNEF3/4	UNEF 3/4-20	19.05	20	110	24	66	14	11	14	4
	P233602-UNEF7/8	UNEF 7/8-20	22.225	20	125	24	78	18	14.5	17	4

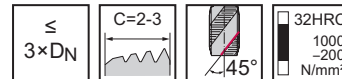
C1

HSS-E machine taps

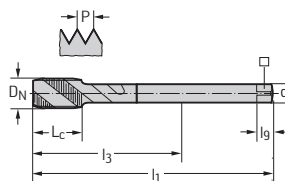
Paradur® X-pert P



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●	●	●	●	●	●	●

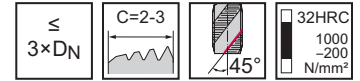
DIN 2184-1		Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	P235692-UNE F1/4	UNE F 1/4-32		6.35	32	80	10	59	4.5	3.4	6	3
	P235692-UNE F5/16	UNE F 5/16-32		7.938	32	90	12	67	6	4.9	8	3
	P235692-UNE F3/8	UNE F 3/8-32		9.525	32	90	12	67	7	5.5	8	3
	P235692-UNE F7/16	UNE F 7/16-28		11.113	28	90	15	66	8	6.2	9	3
	P235692-UNE F1/2	UNE F 1/2-28		12.7	28	100	13	73	9	7	10	4
	P235692-UNE F9/16	UNE F 9/16-24		14.288	24	100	15	71	11	9	12	4
	P235692-UNE F5/8	UNE F 5/8-24		15.875	24	100	15	58	12	9	12	4
	P235692-UNE F11/16	UNE F 11/16-24		17.463	24	110	17	66	14	11	14	4
	P235692-UNE F3/4	UNE F 3/4-20		19.05	20	110	17	66	14	11	14	4
	P235692-UNE F7/8	UNE F 7/8-20		22.225	20	125	18	78	18	14.5	17	4
	P235692-UNE F1	UNE F 1"-20		25.4	20	140	20	93	18	14.5	17	5

HSS-E machine taps

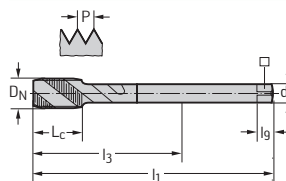
Paradur® X-pert P



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●	●	●	●	●	●

DIN 2184-1		Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	d ₁ h9 mm	□	l _g mm	N
	P265676-UN1.1/8	UN 1.1/8-8		28.575	180	30	22	18	21	5
	P265676-UN1.1/4	UN 1.1/4-8		31.75	180	30	22	18	21	5
	P265676-UN1.3/8	UN 1.3/8-8		34.925	200	30	28	22	25	5
	P265676-UN1.1/2	UN 1.1/2-8		38.1	200	30	28	22	25	5
	P265676-UN1.5/8	UN 1.5/8-8		41.275	200	33	32	24	27	6
	P265676-UN1.3/4	UN 1.3/4-8		44.45	200	33	36	29	32	6
	P265676-UN1.7/8	UN 1.7/8-8		47.625	225	36	36	29	32	6
	P265676-UN2	UN 2"-8		50.8	225	36	40	32	35	6
	P265676-UN2.1/4	UN 2.1/4-8		57.15	250	36	45	35	38	6

C1

HSS-E machine taps

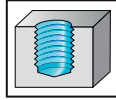
Paradur® X-pert M



– For long-chipping materials

UN-8
ASME B1.1

3B



$\leq$
 $2,5 \times D_N$

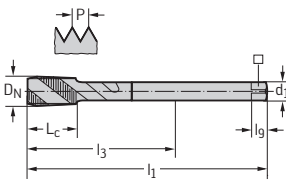
$C=2-3$

$\angle 40^\circ$

36HRC
1200
~700
N/mm²

	P	M	K	N	S	H	O
VAP	●	●●					

DIN 2184-1-C



Designation
VAP

D_N-P

D_N
mm

l_1
mm

L_c
mm

d_1
h9
mm

l_9
mm

N

M225532-UN1.1/8

UN 1.1/8-8

28.575

180

30

22

18

21

4

M225532-UN1.1/4

UN 1.1/4-8

31.75

180

30

22

18

21

4

M225532-UN1.3/8

UN 1.3/8-8

34.925

200

30

28

22

25

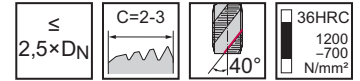
5

HSS-E machine taps

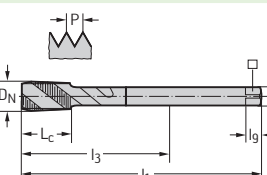
Paradur® X-pert M



– For long-chipping materials



	P	M	K	N	S	H	O
VAP	●	●●	●	●	●	●	●

DIN 2184-1									
	Designation	D _N -P	D _N mm	l ₁ mm	L _c mm	d ₁ h9 mm		l _g mm	N
	M225632-UN1.1/8	UN 1.1/8-8	28.575	180	30	22		21	4
	M225632-UN1.1/4	UN 1.1/4-8	31.75	180	30	22		21	4
	M225632-UN1.3/8	UN 1.3/8-8	34.925	200	30	28		25	5
	M225632-UN1.1/2	UN 1.1/2-8	38.1	200	30	28		25	5
	M225632-UN1.5/8	UN 1.5/8-8	41.275	200	33	32		27	5
	M225632-UN1.3/4	UN 1.3/4-8	44.45	200	33	36		32	6
	M225632-UN1.7/8	UN 1.7/8-8	47.625	225	36	36		32	6
	M225632-UN2	UN 2"-8	50.8	225	36	40		35	6

HSS-E PM machine taps

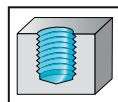
Paradur® Ni 10



- External diameter, rounded
- For long- and short-chipping materials

MJ
DIN ISO 5855-1

ISO1/4H



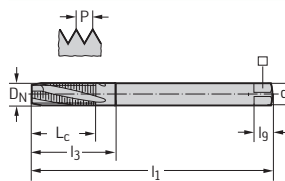
$\leq 1,5 \times D_N$

C=2-3

$\angle 10^\circ$

49HRC
1600
–1000
N/mm²

	P	M	K	N	S	H	O
uncoated	●●			●	●●		

~DIN 371	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	$\square$	l_g mm	N
	2041014-MJ3	MJ 3	0.5	56	8	35	3.5	2.7	6	3
	2041014-MJ4	MJ 4	0.7	63	10.5	42	4.5	3.4	6	3
	2041014-MJ5	MJ 5	0.8	70	13	47	6	4.9	8	3
	2041014-MJ6	MJ 6	1	80	15.5	57	6	4.9	8	3

Without reduced neck after the thread

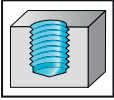
HSS-E PM machine taps
Paradur® Ti



- Recommended with oil
- External diameter, rounded

MJ
DIN ISO 5855-1

ISO1/4H



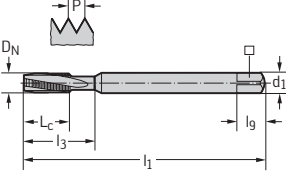
$\leq 2 \times D_N$

C=2-3

 15°

44HRC
1400
~700
N/mm²

	P	M	K	N	S	H	O
uncoated	●●			●	●●		

~DIN 371		Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm		l_g mm	N
	204164-MJ3	MJ 3		0.5	56	10	10	3.5	2.7	6	3
	204164-MJ4	MJ 4		0.7	63	13	13	4.5	3.4	6	3
	204164-MJ5	MJ 5		0.8	70	16	16	6	4.9	8	3
	204164-MJ6	MJ 6		1	80	15	23	6	4.9	8	3
	204164-MJ8	MJ 8		1.25	90	18	29.5	8	6.2	9	3
	204164-MJ10	MJ 10		1.5	100	20	33.5	10	8	11	3

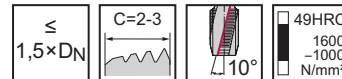
≤ MJ 5: Without reduced neck after the thread

HSS-E PM machine taps

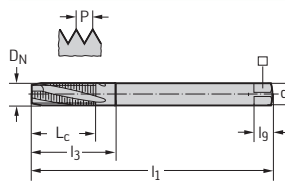
Paradur® Ni 10



- External diameter, rounded
- For long- and short-chipping materials



	P	M	K	N	S	H	O
uncoated	●●			●	●●		

~DIN 2184-1	Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	d ₁ h9 mm	□	l _g mm	N
	224101-UNJC4	UNJC #4-40	2.845	56	8	3.5	2.7	6	3
	224101-UNJC6	UNJC #6-32	3.505	56	10	4	3	6	3
	224101-UNJC8	UNJC #8-32	4.166	63	11	4.5	3.4	6	3
	224101-UNJC10	UNJC #10-24	4.826	70	13.5	6	4.9	8	3
	224101-UNJC1/4	UNJC 1/4-20	6.35	80	17.5	7	5.5	8	3
	224101-UNJC5/16	UNJC 5/16-18	7.938	90	21	8	6.2	9	3
	224101-UNJC3/8	UNJC 3/8-16	9.525	100	25	10	8	11	3

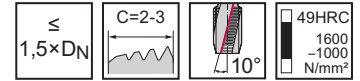
≤ UNC 10: Without reduced neck after the thread

HSS-E PM machine taps

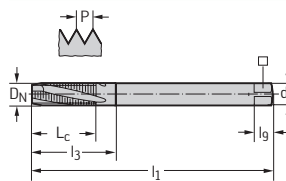
Paradur® Ni 10



- External diameter, rounded
- For long- and short-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●	●	●	●●	●	●

~DIN 2184-1		Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	d ₁ h9 mm	□	l _g mm	N
	234101-UNJF6	UNJF #6-40		3.505	40	56	9.5	4	3	6	3
	234101-UNJF8	UNJF #8-36		4.166	36	63	11	4.5	3.4	6	3
	234101-UNJF10	UNJF #10-32		4.826	32	70	12.5	6	4.9	8	3
	234101-UNJF1/4	UNJF 1/4-28		6.35	28	80	16	7	5.5	8	3
	234101-UNJF5/16	UNJF 5/16-24		7.938	24	90	20	8	6.2	9	3
	234101-UNJF3/8	UNJF 3/8-24		9.525	24	100	23	10	8	11	3

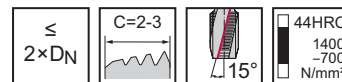
≤ UNJF 10: Without reduced neck after the thread

HSS-E PM machine taps

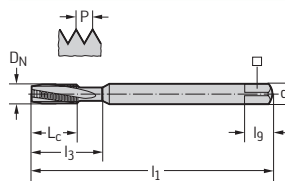
Paradur® Ti Plus



- Recommended with emulsion
- External diameter, rounded



	P	M	K	N	S	H	O
ACN					●●		

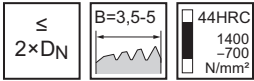
~DIN 2184-1											
	Designation ACN	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	2340663-UNJF10	UNJF #10-32	4.826	32	70	16	16	6	4.9	8	3
	2340663-UNJF1/4	UNJF 1/4-28	6.35	28	80	15	25	7	5.5	8	3
	2340663- UNJF5/16	UNJF 5/16- 24	7.938	24	90	18	29.5	8	6.2	9	3
	2340663-UNJF3/8	UNJF 3/8-24	9.525	24	100	20	33.5	10	8	11	3

UNJF 10: Without reduced neck after the thread

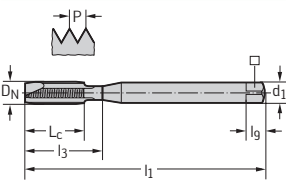
HSS-E PM machine taps
Prototex® TiNi Plus



- Recommended with emulsion
- External diameter, rounded



	P	M	K	N	S	H	O
ACN					●●		

~DIN 2184-1											
	Designation										
	ACN	DN-P	DN mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
	2320763-UNJF10	UNJF #10-32	4.826	32	70	16	16	6	4.9	8	3
	2320763-UNJF1/4	UNJF 1/4-28	6.35	28	80	15	25	7	5.5	8	3
	2320763-UNJF5/16	UNJF 5/16- 24	7.938	24	90	18	29.5	8	6.2	9	3
	2320763-UNJF3/8	UNJF 3/8-24	9.525	24	100	20	33.5	10	8	11	3

UNJF 10: Without reduced neck after the thread

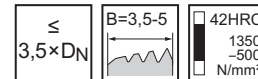
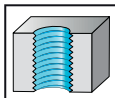
HSS-E PM machine taps

Prototex® Eco Plus

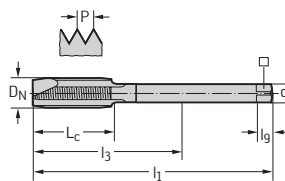


– For long-chipping materials

G (BSP)
DIN EN ISO 228



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●	●●	●●	●●

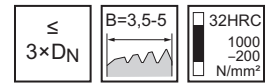
DIN 5156											
	Designation THL	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	EP2426302-G1/8	G 1/8-28	9.728	28	90	20	67	7	5.5	8	3
	EP2426302-G1/4	G 1/4-19	13.157	19	100	21	71	11	9	12	4
	EP2426302-G3/8	G 3/8-19	16.662	19	100	21	58	12	9	12	4
	EP2426302-G1/2	G 1/2-14	20.955	14	125	24	80	16	12	15	4
	EP2426302-G5/8	G 5/8-14	22.911	14	125	24	78	18	14.5	17	4
	EP2426302-G3/4	G 3/4-14	26.441	14	140	26	77	20	16	19	5
	EP2426302-G1	G 1"-11	33.249	11	160	28	93	25	20	23	5

HSS-E machine taps

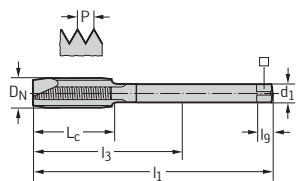
Prototex® X-pert P



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●	●	●	●	●	●	●
TIN	●	●	●	●	●	●	●

DIN 5156	Designation TIN	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	P2436005-G1/8	P24360-G1/8	G 1/8-28	9.728	28	90	20	67	7	5.5	8	3
	P2436005-G1/4	P24360-G1/4	G 1/4-19	13.157	19	100	21	71	11	9	12	3
	P2436005-G3/8	P24360-G3/8	G 3/8-19	16.662	19	100	21	58	12	9	12	4
	P2436005-G1/2	P24360-G1/2	G 1/2-14	20.955	14	125	24	80	16	12	15	4
		P24360-G5/8	G 5/8-14	22.911	14	125	24	78	18	14.5	17	4
	P2436005-G3/4	P24360-G3/4	G 3/4-14	26.441	14	140	26	77	20	16	19	4
		P24360-G7/8	G 7/8-14	30.201	14	150	26	85	22	18	21	4
	P2436005-G1	P24360-G1	G 1"-11	33.249	11	160	28	93	25	20	23	4
		P24360-G1.1/4	G 1.1/4-11	41.91	11	170	28	72	32	24	27	4
		P24360-G1.1/2	G 1.1/2-11	47.803	11	190	30	87	36	29	32	5
		P24360-G2	G 2"-11	59.614	11	220	34	87	45	35	38	5

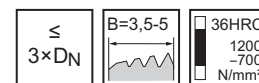
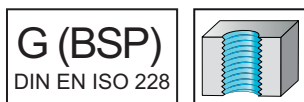
l_g dimensions in accordance with DIN 10

HSS-E machine taps

Prototex® X-pert M

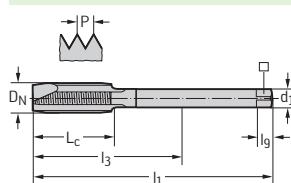


– For long-chipping materials



	P	M	K	N	S	H	O
VAP	●	●●	●	●	●	●	●
TIN	●	●●	●	●	●	●	●

DIN 5156



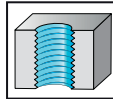
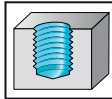
Designation TIN	Designation VAP	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
M2426305-G1/8	M24263-G1/8	G 1/8- 28	9.728	28	90	20	67	7	5.5	8	3
M2426305-G1/4	M24263-G1/4	G 1/4- 19	13.157	19	100	21	71	11	9	12	4
M2426305-G3/8	M24263-G3/8	G 3/8- 19	16.662	19	100	21	58	12	9	12	4
M2426305-G1/2	M24263-G1/2	G 1/2- 14	20.955	14	125	24	80	16	12	15	4
M2426305-G3/4	M24263-G3/4	G 3/4- 14	26.441	14	140	26	77	20	16	19	4
M2426305-G1	M24263-G1	G 1"-11	33.249	11	160	28	93	25	20	23	5

HSS-E taps, short KMB Ms



– For short-chipping materials

G (BSP)
DIN EN ISO 228



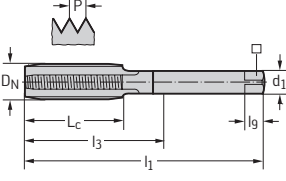
$\leq$
 $3 \times D_N$

$F=1-1,5$

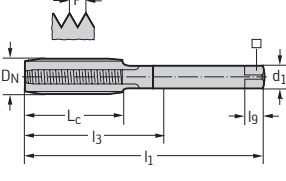
S
 l_1

25HRC
850
-350
N/mm²

	P	M	K	N	S	H	O
uncoated				●●			●

DIN 5157	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	24165-G1/8	G 1/8-28	9.728	28	63	20	40	7	5.5	8	3
	24165-G1/4	G 1/4-19	13.157	19	70	20	41	11	9	12	4
	24165-G3/8	G 3/8-19	16.662	19	70	20	28	12	9	12	4
	24165-G1/2	G 1/2-14	20.955	14	80	22	35	16	12	15	6
	24165-G3/4	G 3/4-14	26.441	14	90	22	27	20	16	19	6
	24165-G1	G 1"-11	33.249	11	100	25	33	25	20	23	6

Thread machining allowance 0.05 mm

DIN 5157	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	24195-G1/8	G 1/8-28	9.728	28	63	20	40	7	5.5	8	3
	24195-G1/4	G 1/4-19	13.157	19	70	20	41	11	9	12	4
	24195-G3/8	G 3/8-19	16.662	19	70	20	28	12	9	12	4
	24195-G1/2	G 1/2-14	20.955	14	80	22	35	16	12	15	6
	24195-G3/4	G 3/4-14	26.441	14	90	22	27	20	16	19	6

Thread machining allowance 0.1 mm

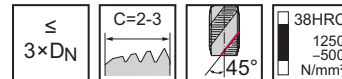
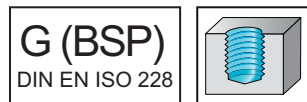
C1

HSS-E PM machine taps

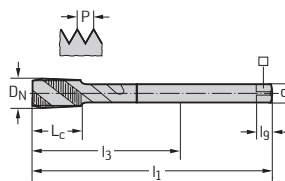
Paradur® Eco Plus



– For long-chipping materials



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●	●●	●●	●●

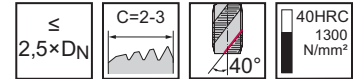
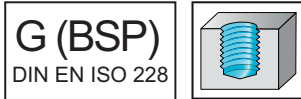
DIN 5156											
	Designation THL	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	EP2456302-G1/8	G 1/8-28	9.728	28	90	12	67	7	5.5	8	3
	EP2456302-G1/4	G 1/4-19	13.157	19	100	15	71	11	9	12	4
	EP2456302-G3/8	G 3/8-19	16.662	19	100	15	58	12	9	12	4
	EP2456302-G1/2	G 1/2-14	20.955	14	125	18	80	16	12	15	4
	EP2456302-G5/8	G 5/8-14	22.911	14	125	18	78	18	14.5	17	4
	EP2456302-G3/4	G 3/4-14	26.441	14	140	20	77	20	16	19	5
	EP2456302-G1	G 1"-11	33.249	11	160	22	93	25	20	23	5

HSS-E machine taps

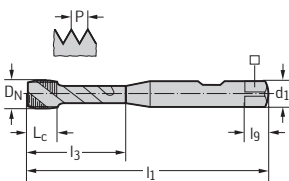
Paradur® Synchrospeed



- For long-chipping materials
- Only for synchronous machining (rigid tapping)



	P	M	K	N	S	H	O
THL	●●	●●	●●	●	●		●

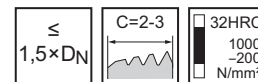
~DIN 5156											
	Designation	D _N -P	D _N	Threads	l ₁	L _c	l ₃	d ₁		l _g	N
	THL		mm	per inch	mm	mm	mm	h6 mm	□	mm	
	S2456302-G1/8	G 1/8-28	9.728	28	90	9.5	39	10	8	11	3
	S2456302-G1/4	G 1/4-19	13.157	19	100	14	46	14	11	14	3
	S2456302-G3/8	G 3/8-19	16.662	19	100	14	62.5	16	12	15	4
	S2456302-G1/2	G 1/2-14	20.955	14	125	19	50	20	16	19	4

HSS-E machine taps

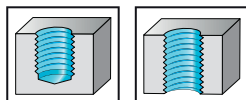
Paradur® H



– For long- and short-chipping materials

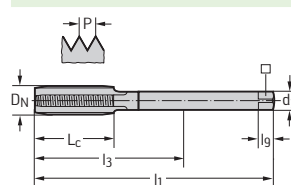


G (BSP)
DIN EN ISO 228



	P	M	K	N	S	H	O
uncoated			●	●●			●

DIN 5156



Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	N
24361-G1/8	G 1/8-28	9.728	28	90	20	67	7	3
24361-G1/4	G 1/4-19	13.157	19	100	21	71	11	4
24361-G3/8	G 3/8-19	16.662	19	100	21	58	12	4
24361-G1/2	G 1/2-14	20.955	14	125	24	80	16	4
24361-G5/8	G 5/8-14	22.911	14	125	24	78	18	4
24361-G3/4	G 3/4-14	26.441	14	140	26	77	20	4
24361-G1	G 1"-11	33.249	11	160	28	93	25	4
24361-G1.1/4	G 1.1/4-11	41.91	11	170	28	72	32	4
24361-G1.1/2	G 1.1/2-11	47.803	11	190	30	87	36	6
24361-G2	G 2"-11	59.614	11	220	34	87	45	6
24361-G2.1/2	G 2.1/2-11	75.184	11	275	38	138	50	6

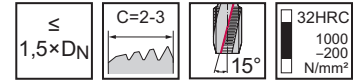
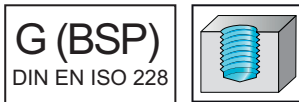
C1

HSS-E machine taps

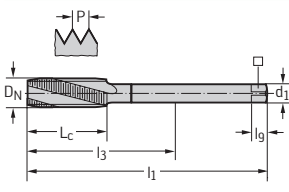
Paradur® N



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●	●●	●●	●	●	●

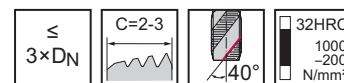
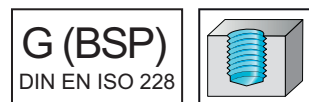
DIN 5156	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	24460-G1/8	G 1/8-28	9.728	28	90	20	67	7	5.5	8	3
	24460-G1/4	G 1/4-19	13.157	19	100	21	71	11	9	12	4
	24460-G3/8	G 3/8-19	16.662	19	100	21	58	12	9	12	4
	24460-G1/2	G 1/2-14	20.955	14	125	24	80	16	12	15	4
	24460-G3/4	G 3/4-14	26.441	14	140	26	77	20	16	19	4
	24460-G1	G 1"-11	33.249	11	160	28	93	25	20	23	4

HSS-E machine taps

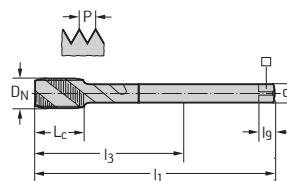
Paradur® X-pert P



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●	●	●	●	●	●	●
TiN	●	●	●	●	●	●	●

DIN 5156	Designation TiN	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	P2456905-G1/8	P24569-G1/8	G 1/8-28	9.728	28	90	12	67	7	5.5	8	3
	P2456905-G1/4	P24569-G1/4	G 1/4-19	13.157	19	100	15	71	11	9	12	4
	P2456905-G3/8	P24569-G3/8	G 3/8-19	16.662	19	100	15	58	12	9	12	4
	P2456905-G1/2	P24569-G1/2	G 1/2-14	20.955	14	125	18	80	16	12	15	4
		P24569-G5/8	G 5/8-14	22.911	14	125	18	78	18	14.5	17	4
	P2456905-G3/4	P24569-G3/4	G 3/4-14	26.441	14	140	20	77	20	16	19	5
		P24569-G7/8	G 7/8-14	30.201	14	150	20	85	22	18	21	5
	P2456905-G1	P24569-G1	G 1"-11	33.249	11	160	22	93	25	20	23	5
		P24569-G1.1/8	G 1.1/8-11	37.897	11	170	22	101	28	22	25	5
		P24569-G1.1/4	G 1.1/4-11	41.91	11	170	22	72	32	24	27	6
		P24569-G1.1/2	G 1.1/2-11	47.803	11	190	24	87	36	29	32	6
		P24569-G1.3/4	G 1.3/4-11	53.746	11	190	26	60	40	32	35	6
		P24569-G2	G 2"-11	59.614	11	220	28	87	45	35	38	6

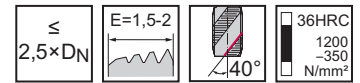
C1

HSS-E machine taps

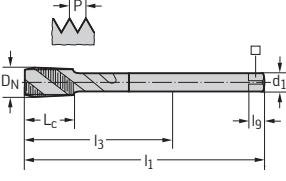
Paradur® STE



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●	●	●	●	●	●	●
THL	●	●	●	●	●	●	●

DIN 5156	Designation THL	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	2456062-G1/8	245606-G1/8	G 1/8-28	9.728	28	90	12	67	7	5.5	8	4
	2456062-G1/4	245606-G1/4	G 1/4-19	13.157	19	100	15	71	11	9	12	5
	2456062-G3/8	245606-G3/8	G 3/8-19	16.662	19	100	15	58	12	9	12	5
	2456062-G1/2	245606-G1/2	G 1/2-14	20.955	14	125	18	80	16	12	15	5

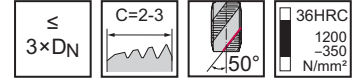
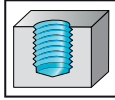
HSS-E PM machine taps

TC142 Supreme



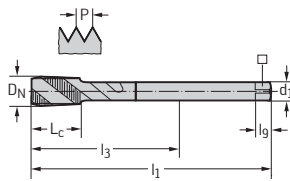
– WY80FC: Best chip control

G (BSP)
DIN EN ISO 228



	P	M	K	N	S	H	O
WY80FC (VAP)	●	●●	●	●	●	●	●

DIN 5156



Designation WY80FC	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
TC142-G1/8-L0-	G 1/8-28	9.728	28	90	12	67	7	5.5	8	3
TC142-G1/4-L0-	G 1/4-19	13.157	19	100	15	71	11	9	12	4

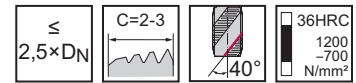
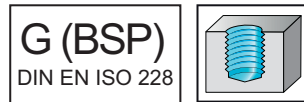
Ordering example for the grade WY80FC: TC142-G1/4-L0-WY80FC

HSS-E machine taps

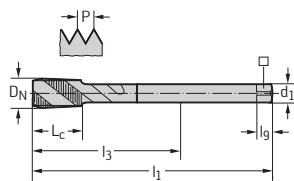
Paradur® X-pert M



– For long-chipping materials



	P	M	K	N	S	H	O
VAP	●	●●	●	●	●	●	●
TIN	●	●●	●	●	●	●	●

DIN 5156	Designation TIN	Designation VAP	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	M2456305-G1/8	M24563-G1/8	G 1/8-28	9.728	28	90	12	67	7	5.5	8	3
	M2456305-G1/4	M24563-G1/4	G 1/4-19	13.157	19	100	15	71	11	9	12	4
	M2456305-G3/8	M24563-G3/8	G 3/8-19	16.662	19	100	15	58	12	9	12	4
	M2456305-G1/2	M24563-G1/2	G 1/2-14	20.955	14	125	18	80	16	12	15	4
		M24563-G5/8	G 5/8-14	22.911	14	125	18	78	18	14.5	17	4
	M2456305-G3/4	M24563-G3/4	G 3/4-14	26.441	14	140	20	77	20	16	19	5
		M24563-G7/8	G 7/8-14	30.201	14	150	20	85	22	18	21	5
	M2456305-G1	M24563-G1	G 1"-11	33.249	11	160	22	93	25	20	23	5

C1

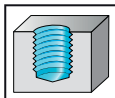
HSS-E machine taps

Paradur Inox® 25



– For long-chipping materials

G (BSP)
DIN EN ISO 228



$\leq$
 $1,5 \times D_N$

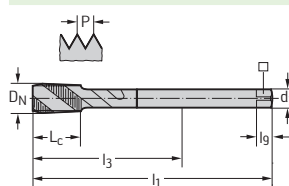
$E=1,5-2$

$\angle 25^\circ$

36HRC
1200
~350
N/mm²

	P	M	K	N	S	H	O
TIN	●●	●●	●●	●●	●●	●●	●●

DIN 5156



Designation TIN	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
2456315-G1/4	G 1/4-19	13.157	19	100	18	71	11	9	12	5
2456315-G3/8	G 3/8-19	16.662	19	100	22	58	12	9	12	5
2456315-G1/2	G 1/2-14	20.955	14	125	25	80	16	12	15	6
2456315-G3/4	G 3/4-14	26.441	14	140	28	77	20	16	19	6

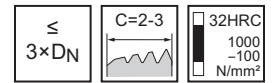
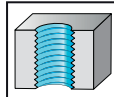
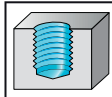
HSS-E PM machine taps

Paradur® Eco CI

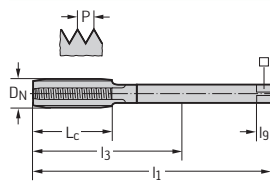


– For short-chipping materials

G (BSP)
DIN EN ISO 228



	P	M	K	N	S	H	O
NID			●●	●●			●●
TICN			●●	●●			●●

DIN 5156	Designation NID	Designation TICN	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	E24364-G1/8	E2436406-G1/8	G 1/8-28	9.728	28	90	20	67	7	5.5	8	4
	E24364-G1/4	E2436406-G1/4	G 1/4-19	13.157	19	100	21	71	11	9	12	4
	E24364-G3/8	E2436406-G3/8	G 3/8-19	16.662	19	100	21	58	12	9	12	5
	E24364-G1/2	E2436406-G1/2	G 1/2-14	20.955	14	125	24	80	16	12	15	5
	E24364-G3/4	E2436406-G3/4	G 3/4-14	26.441	14	140	26	77	20	16	19	6
	E24364-G1	E2436406-G1	G 1"-11	33.249	11	160	28	93	25	20	23	6
	E24364-G1.1/4	E2436406-G1.1/4	G 1.1/4-11	41.91	11	170	28	72	32	24	27	6
		E2436406-G1.1/2	G 1.1/2-11	47.803	11	190	30	87	36	29	32	6

NID = Nidamised (NIT+VAP)

C1

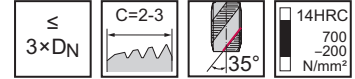
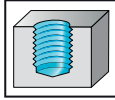
HSS-E machine taps

Paradur® X-pert N



– For long-chipping materials

G (BSP)
DIN EN ISO 228



	P	M	K	N	S	H	O
uncoated				●	●		●

DIN 5156

Designation
uncoated

D_N-P

D_N
mm

Threads
per inch

l₁
mm

L_c
mm

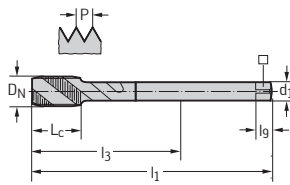
l₃
mm

d₁
h9
mm

□

l_g
mm

N



N24566-G1/8

G 1/8-28

9.728

28

90

12

67

7

5.5

8

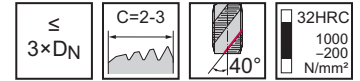
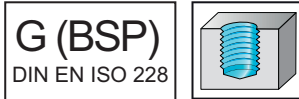
3

HSS-E machine taps

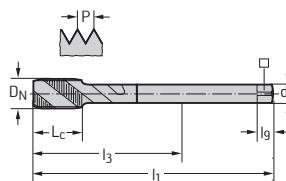
Paradur® Uni



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●		●	●			

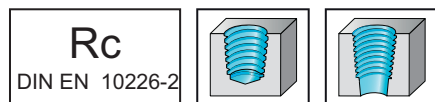
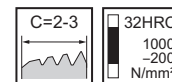
DIN 5156	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	7456770-G1/8	G 1/8-28	9.728	28	90	12	67	7	5.5	8	3
	7456770-G1/4	G 1/4-19	13.157	19	100	15	71	11	9	12	4
	7456770-G3/8	G 3/8-19	16.662	19	100	15	58	12	9	12	4
	7456770-G1/2	G 1/2-14	20.955	14	125	18	80	16	12	15	4
	7456770-G3/4	G 3/4-14	26.441	14	140	20	77	20	16	19	5
	7456770-G1	G 1"-11	33.249	11	160	22	93	25	20	23	5

HSS-E machine taps

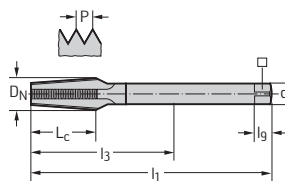
Paradur® H



– For long- and short-chipping materials



	P	M	K	N	S	H	O
uncoated			●	●●			●

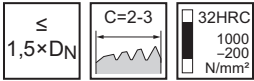
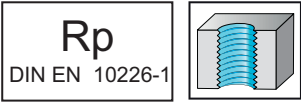
PWZ-NORM	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	d ₁ h9 mm	□	l _g mm	N
	24167-RC1/8	Rc 1/8-28	9.728	28	90	13	7	5.5	6	4
	24167-RC1/4	Rc 1/4-19	13.157	19	100	20	11	9	9	4
	24167-RC3/8	Rc 3/8-19	16.662	19	110	20	12	9	9	4
	24167-RC1/2	Rc 1/2-14	20.955	14	125	26	16	12	12	5
	24167-RC3/4	Rc 3/4-14	26.441	14	140	26	20	16	16	5
	24167-RC1	Rc 1"-11	33.249	11	150	32	25	20	20	5
	24167-RC1.1/4	Rc 1.1/4-11	41.91	11	160	32	32	24	24	6
	24167-RC1.1/2	Rc 1.1/2-11	47.803	11	180	32	36	29	29	6

Taper ratio 1:16

HSS-E machine taps
Paradur® H



– For long- and short-chipping materials



	P	M	K	N	S	H	O
uncoated			●	●●			●

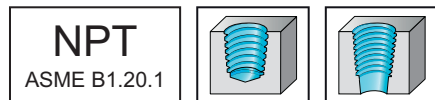
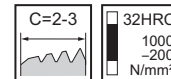
DIN 5156	Designation		D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	N
	uncoated	D _N -P							
	243612-RP1/8	Rp 1/8-28	9.728	28	90	20	67	7	3
	243612-RP1/4	Rp 1/4-19	13.157	19	100	21	71	11	4
	243612-RP3/8	Rp 3/8-19	16.662	19	100	21	58	12	4
	243612-RP1/2	Rp 1/2-14	20.955	14	125	24	80	16	4
	243612-RP3/4	Rp 3/4-14	26.441	14	140	26	77	20	4
	243612-RP1	Rp 1"-11	33.249	11	160	28	93	25	4
	243612-RP1.1/2	Rp 1.1/2-11	47.803	11	190	30	87	36	6

HSS-E machine taps

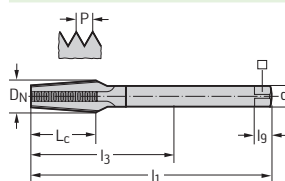
Paradur® H



– For long- and short-chipping materials



	P	M	K	N	S	H	O
uncoated			●	●●			●

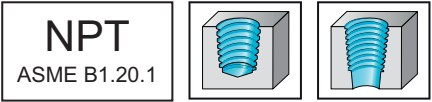
PWZ-NORM	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	d ₁ h9 mm	□	l _g mm	N
	25167-NPT1/16	NPT 1/16-27	7.717	27	80	14	8	6.2	6	3
	25167-NPT1/8	NPT 1/8-27	10.065	27	90	14	11	9	9	3
	25167-NPT1/4	NPT 1/4-18	13.372	18	100	20	14	11	11	3
	25167-NPT3/8	NPT 3/8-18	16.812	18	110	20	16	12	12	4
	25167-NPT1/2	NPT 1/2-14	20.947	14	125	26	18	14.5	15	4
	25167-NPT3/4	NPT 3/4-14	26.292	14	140	26	22	18	18	5
	25167-NPT1	NPT 1"-11.5	32.914	11.5	150	31	28	22	22	5
	25167-NPT1.1/4	NPT 1.1/4-11.5	41.67	11.5	160	31	32	24	24	5
	25167-NPT1.1/2	NPT 1.1/2-11.5	47.74	11.5	160	31	36	29	29	6
	25167-NPT2	NPT 2"-11.5	59.778	11.5	180	31	45	35	35	7

Taper ratio 1:16

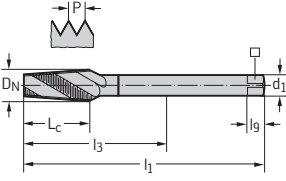
HSS-E machine taps
Paradur® N



– For long-chipping materials



	P	M	K	N	S	H	O
VAP	●●		●●	●●			

PWZ-NORM	Designation									
	VAP	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	d ₁ h9 mm		l ₉ mm	N
	25460-NPT1/16	NPT 1/16-27	7.717	27	80	14	8	6.2	6	3
	25460-NPT1/8	NPT 1/8-27	10.065	27	90	14	11	9	9	3
	25460-NPT1/4	NPT 1/4-18	13.372	18	100	20	14	11	11	3
	25460-NPT3/8	NPT 3/8-18	16.812	18	110	20	16	12	12	4
	25460-NPT1/2	NPT 1/2-14	20.947	14	125	26	18	14.5	15	4
	25460-NPT3/4	NPT 3/4-14	26.292	14	140	26	22	18	18	5
	25460-NPT1	NPT 1"-11.5	32.914	11.5	150	31	28	22	22	5

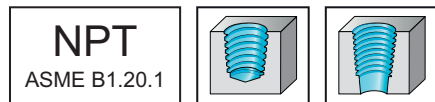
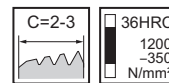
Taper ratio 1:16

HSS-E machine taps

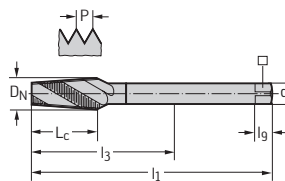
Paradur Inox®



– For long-chipping materials



	P	M	K	N	S	H	O
VAP	●	●	●	●	●	●	●
THL	●	●	●	●	●	●	●

PWZ-NORM	Designation THL	Designation VAP	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	d ₁ h9 mm	□	l _g mm	N
		25567-NPT1/16	NPT 1/16-27	7.717	27	80	14	8	6.2	6	3
	2556702-NPT1/8	25567-NPT1/8	NPT 1/8-27	10.065	27	90	14	11	9	9	4
	2556702-NPT1/4	25567-NPT1/4	NPT 1/4-18	13.372	18	100	20	14	11	11	4
	2556702-NPT3/8	25567-NPT3/8	NPT 3/8-18	16.812	18	110	20	16	12	12	5
	2556702-NPT1/2	25567-NPT1/2	NPT 1/2-14	20.947	14	125	26	18	14.5	15	5
		25567-NPT3/4	NPT 3/4-14	26.292	14	140	26	22	18	18	5
		25567-NPT1	NPT 1"- 11.5	32.914	11.5	150	31	28	22	22	5

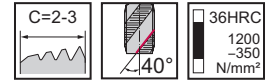
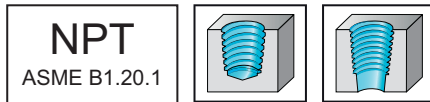
Taper ratio 1:16

HSS-E machine taps

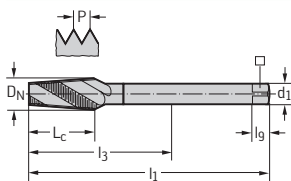
Paradur Inox® 40



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●●	●	●			

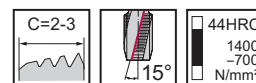
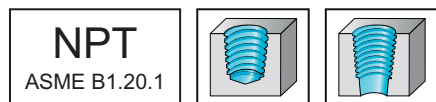
PWZ-NORM		Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	d ₁ h9 mm	□	l _g mm	N
	255630-NPT1/8	NPT 1/8-27		10.065	27	90	14	11	9	9	3
	255630-NPT1/4	NPT 1/4-18		13.372	18	100	20	14	11	11	3
	255630-NPT3/8	NPT 3/8-18		16.812	18	110	20	16	12	12	4
	255630-NPT1/2	NPT 1/2-14		20.947	14	125	26	18	14.5	15	4

Taper ratio 1:16

HSS-E machine taps Paradur® Ni



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●	●	●	●	●	●	●
TiCN	●	●	●	●	●	●	●

PWZ-NORM	Designation TiCN	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	d ₁ h9 mm	□	l _g mm	N
	2546706-NPT1/16	25467-NPT1/16	NPT 1/16-27	7.717	27	80	7.717	8	6.2	6	3
	2546706-NPT1/8	25467-NPT1/8	NPT 1/8-27	10.065	27	90	10.065	11	9	9	4
	2546706-NPT1/4	25467-NPT1/4	NPT 1/4-18	13.372	18	100	13.372	14	11	11	4
	2546706-NPT3/8	25467-NPT3/8	NPT 3/8-18	16.812	18	110	16.812	16	12	12	5
	2546706-NPT1/2	25467-NPT1/2	NPT 1/2-14	20.947	14	125	20.947	18	14.5	15	5
	2546706-NPT3/4	25467-NPT3/4	NPT 3/4-14	26.292	14	140	26.292	22	18	18	5
	2546706-NPT1	25467-NPT1	NPT 1"- 11.5	32.914	11.5	150	32.914	28	22	22	5

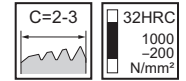
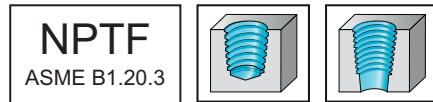
Taper ratio 1:16

HSS-E machine taps

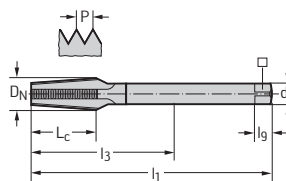
Paradur® H



– For long- and short-chipping materials



	P	M	K	N	S	H	O
uncoated			●	●●			●

PWZ-NORM		Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	d ₁ h9 mm	□	l _g mm	N
	26167-NPTF1/16	NPTF 1/16-27		7.635	27	80	14	8	6.2	6	3
	26167-NPTF1/8	NPTF 1/8-27		9.982	27	90	14	11	9	9	3
	26167-NPTF1/4	NPTF 1/4-18		13.313	18	100	20	14	11	11	3
	26167-NPTF3/8	NPTF 3/8-18		16.752	18	110	20	16	12	12	4
	26167-NPTF1/2	NPTF 1/2-14		20.921	14	125	26	18	14.5	15	4
	26167-NPTF3/4	NPTF 3/4-14		26.267	14	140	26	22	18	18	5
	26167-NPTF1	NPTF 1"- 11.5		32.839	11.5	150	31	28	22	22	5

Taper ratio 1:16

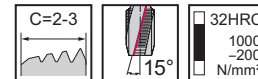
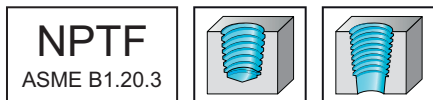
C1

HSS-E machine taps

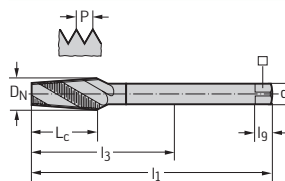
Paradur® N



– For long-chipping materials



	P	M	K	N	S	H	O
VAP	●●		●●	●●			

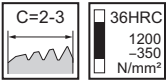
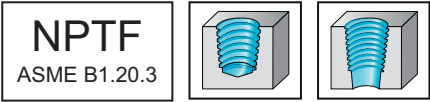
PWZ-NORM		Designation VAP	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	d ₁ h9 mm	□	l _g mm	N
	26460-NPTF1/16	NPTF 1/16-27		7.635	27	80	14	8	6.2	6	3
	26460-NPTF1/8	NPTF 1/8-27		9.982	27	90	14	11	9	9	3
	26460-NPTF1/4	NPTF 1/4-18		13.313	18	100	20	14	11	11	3
	26460-NPTF3/8	NPTF 3/8-18		16.752	18	110	20	16	12	12	4
	26460-NPTF1/2	NPTF 1/2-14		20.921	14	125	26	18	14.5	15	4
	26460-NPTF3/4	NPTF 3/4-14		26.267	14	140	26	22	18	18	5

Taper ratio 1:16

HSS-E machine taps
Paradur Inox®



– For long-chipping materials



	P	M	K	N	S	H	O
VAP	●●	●●	●				

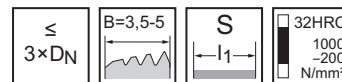
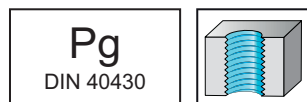
PWZ-NORM	Designation VAP	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	d ₁ h9 mm	□	l _g mm	N
	26567-NPTF1/16	NPTF 1/16-27	7.635	27	80	14	8	6.2	6	3
	26567-NPTF1/8	NPTF 1/8-27	9.982	27	90	14	11	9	9	4
	26567-NPTF1/4	NPTF 1/4-18	13.313	18	100	20	14	11	11	4
	26567-NPTF1/2	NPTF 1/2-14	20.921	14	125	26	18	14.5	15	5

Taper ratio 1:16

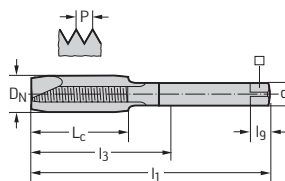
HSS-E taps, short KMB H



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●●	●●	●●	●●	●●	●●

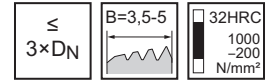
DIN 40432	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	27160-PG7	Pg 7-20	12.5	20	70	20	43	9	7	10	4
	27160-PG9	Pg 9-18	15.2	18	70	20	28	12	9	12	4
	27160-PG11	Pg 11-18	18.6	18	80	22	36	14	11	14	4
	27160-PG13.5	Pg 13.5-18	20.4	18	80	22	35	16	12	15	4
	27160-PG16	Pg 16-18	22.5	18	80	22	33	18	14.5	17	4
	27160-PG21	Pg 21-16	28.3	16	90	22	25	22	18	21	4

HSS-E machine taps

Prototex® X-pert P



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●	●	●	●	●	●

DIN 2184-1		Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	P28210-BSW1/8	BSW 1/8-40		3.175	40	56	10	18	3.5	2.7	6	2
	P28210-BSW3/16	BSW 3/16-24		4.763	24	70	13	25	6	4.9	8	2
	P28210-BSW1/4	BSW 1/4-20		6.35	20	80	15	30	7	5.5	8	3
	P28210-BSW5/16	BSW 5/16-18		7.938	18	90	18	35	8	6.2	9	3
	P28210-BSW3/8	BSW 3/8-16		9.525	16	100	20	39	10	8	11	3

DIN 2184-1		Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	P28360-BSW7/16	BSW 7/16-14		11.113	14	100	20	76	8	6.2	9	3
	P28360-BSW1/2	BSW 1/2-12		12.7	12	110	23	83	9	7	10	3
	P28360-BSW5/8	BSW 5/8-11		15.875	11	110	25	68	12	9	12	3
	P28360-BSW3/4	BSW 3/4-10		19.05	10	125	30	81	14	11	14	4
	P28360-BSW7/8	BSW 7/8-9		22.225	9	140	30	93	18	14.5	17	4
	P28360-BSW1	BSW 1"-8		25.4	8	160	36	113	18	14.5	17	4

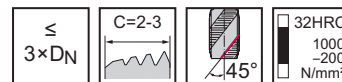
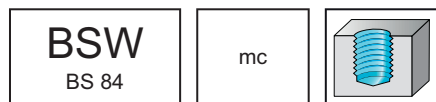
C1

HSS-E machine taps

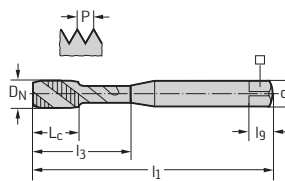
Paradur® X-pert P



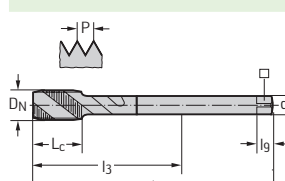
– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●	●	●	●	●	●	●

DIN 2184-1	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	P28519-BSW1/8	BSW 1/8-40	3.175	40	56	6	18	3.5	2.7	6	3
	P28519-BSW3/16	BSW 3/16-24	4.763	24	70	8	25	6	4.9	8	3
	P28519-BSW1/4	BSW 1/4-20	6.35	20	80	10	30	7	5.5	8	3
	P28519-BSW5/16	BSW 5/16-18	7.938	18	90	12	35	8	6.2	9	3
	P28519-BSW3/8	BSW 3/8-16	9.525	16	100	15	39	10	8	11	3

C1

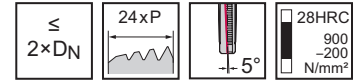
DIN 2184-1	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	P28569-BSW7/16	BSW 7/16-14	11.113	14	100	15	76	8	6.2	9	3
	P28569-BSW1/2	BSW 1/2-12	12.7	12	110	18	83	9	7	10	3
	P28569-BSW5/8	BSW 5/8-11	15.875	11	110	20	68	12	9	12	4
	P28569-BSW3/4	BSW 3/4-10	19.05	10	125	25	81	14	11	14	4
	P28569-BSW7/8	BSW 7/8-9	22.225	9	140	25	93	18	14.5	17	4
	P28569-BSW1	BSW 1"-8	25.4	8	160	30	113	18	14.5	17	4

HSS-E trapezoidal taps

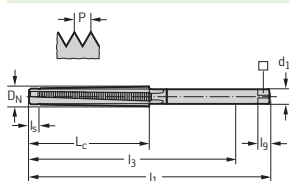
TMB



- Left-hand helix
- For long- and short-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●	●●	●●	●	●	●

PWZ-NORM 	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	29100-TR8X1.5	Tr 8x1.5	1.5	90	45	67	6	4.9	8	3
	29100-TR10X2	Tr 10x2	2	135	60	112	7	5.5	8	3
	29100-TR10X3	Tr 10x3	3	145	90	122	7	5.5	8	3
	29100-TR12X3	Tr 12x3	3	175	90	151	8	6.2	9	3
	29100-TR14X3	Tr 14x3	3	180	90	152	10	8	11	3
	29100-TR14X4	Tr 14x4	4	215	120	187	10	8	11	3
	29100-TR16X4	Tr 16x4	4	220	120	191	11	9	12	3
	29100-TR18X4	Tr 18x4	4	225	120	183	12	9	12	3
	29100-TR20X4	Tr 20x4	4	230	120	186	14	11	14	3
	29100-TR22X5	Tr 22x5	5	265	150	220	16	12	15	3
	29100-TR24X5	Tr 24x5	5	275	150	228	18	14.5	17	3
29100-TR26X5	Tr 26x5	5	295	150	232	20	16	19	3	

C1

HSS-E trapezoidal taps

TMB

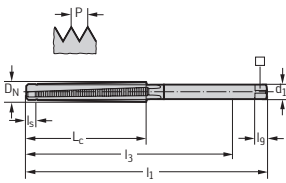


- Right-hand helix
- For long- and short-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●●	●●	●●	●●	●●	●●

PWZ-NORM



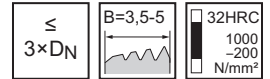
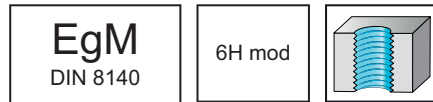
Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
29900-TR12X3	Tr 12x3	3	175	90	151	8	6.2	9	3
29900-TR16X4	Tr 16x4	4	220	120	191	11	9	12	3

HSS-E machine taps

Prototex® X-pert P

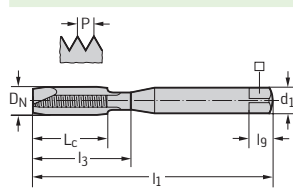


- For threaded inserts
- For long-chipping materials



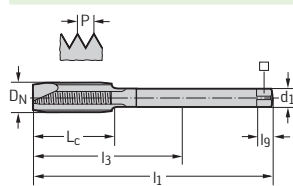
	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 40435



Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
P203009-EGM2.5	EGM 2.5	0.45	56	9	18	3.5	2.7	6	3
P203009-EGM3	EGM 3	0.5	63	12	21	4.5	3.4	6	3
P203009-EGM4	EGM 4	0.7	70	13	25	6	4.9	8	3
P203009-EGM5	EGM 5	0.8	80	15	30	6	4.9	8	3
P203009-EGM6	EGM 6	1	90	18	35	8	6.2	9	3
P203009-EGM8	EGM 8	1.25	100	20	39	10	8	11	3

DIN 40435



Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
P203509-EGM10	EGM 10	1.5	100	21	73	9	7	10	3
P203509-EGM12	EGM 12	1.75	110	25	81	11	9	12	3
P203509-EGM16	EGM 16	2	125	30	81	14	11	14	4

C1

**WALTER
SELECT**

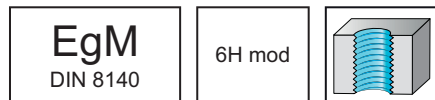
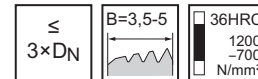
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine taps

Prototex® X-pert M



- For threaded inserts
- For long-chipping materials



	P	M	K	N	S	H	O
VAP	●	●●					

DIN 40435										
	Designation VAP	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	M203009-EGM2.5	EGM 2.5	0.45	56	9	18	3.5	2.7	6	2
	M203009-EGM3	EGM 3	0.5	63	12	21	4.5	3.4	6	2
	M203009-EGM4	EGM 4	0.7	70	13	25	6	4.9	8	3
	M203009-EGM5	EGM 5	0.8	80	15	30	6	4.9	8	3
	M203009-EGM6	EGM 6	1	90	18	35	8	6.2	9	3
	M203009-EGM8	EGM 8	1.25	100	20	39	10	8	11	3

C1

WALTER
SELECT

●● Primary application ● Other application

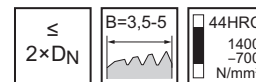
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Prototex® TiNi



- Recommended with oil
- For threaded inserts
- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●●	●●	●●	●●	●●	●●

~DIN 40435										
	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	20207-EGM4	EGM 4	0.7	70	16	16	6	4.9	8	3
	20207-EGM5	EGM 5	0.8	80	15	23	6	4.9	8	3
	20207-EGM6	EGM 6	1	90	18	29	8	6.2	9	3
	20207-EGM8	EGM 8	1.25	100	20	33	10	8	11	3

EGM 4: Without reduced neck after the thread

C1

**WALTER
SELECT**

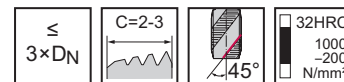
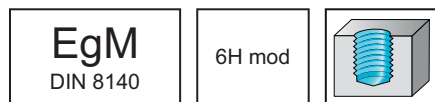
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® X-pert P

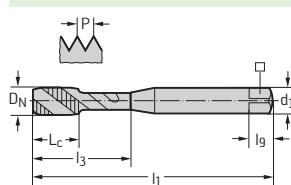


- For threaded inserts
- For long-chipping materials



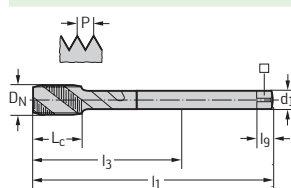
	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 40435



Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
P205099-EGM2.5	EGM 2.5	0.45	56	6	18	3.5	2.7	6	3
P205099-EGM3	EGM 3	0.5	63	7	21	4.5	3.4	6	3
P205099-EGM4	EGM 4	0.7	70	8	25	6	4.9	8	3
P205099-EGM5	EGM 5	0.8	80	10	30	6	4.9	8	3
P205099-EGM6	EGM 6	1	90	12	35	8	6.2	9	3
P205099-EGM8	EGM 8	1.25	100	15	39	10	8	11	3

DIN 40435



Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
P205599-EGM10	EGM 10	1.5	100	13	73	9	7	10	4
P205599-EGM12	EGM 12	1.75	110	20	81	11	9	12	4
P205599-EGM14	EGM 14	2	110	20	68	12	9	12	4
P205599-EGM16	EGM 16	2	125	25	81	14	11	14	4
P205599-EGM20	EGM 20	2.5	160	25	113	18	14.5	17	4
P205599-EGM24	EGM 24	3	160	30	97	20	16	19	4

WALTER
SELECT

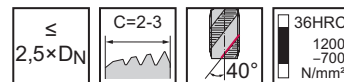
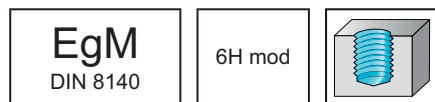
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® X-pert M

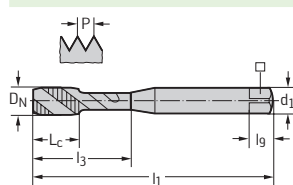


- For threaded inserts
- For long-chipping materials



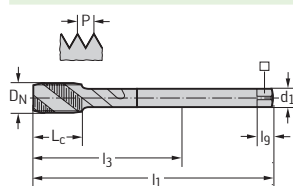
	P	M	K	N	S	H	O
VAP	●	●●	●	●	●	●	●

DIN 40435



Designation VAP	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
M205049-EGM2.5	EGM 2.5	0.45	56	6	18	3.5	2.7	6	3
M205049-EGM3	EGM 3	0.5	63	7	21	4.5	3.4	6	3
M205049-EGM4	EGM 4	0.7	70	8	25	6	4.9	8	3
M205049-EGM5	EGM 5	0.8	80	10	30	6	4.9	8	3
M205049-EGM6	EGM 6	1	90	12	35	8	6.2	9	3
M205049-EGM8	EGM 8	1.25	100	15	39	10	8	11	3

DIN 40435



Designation VAP	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
M205549-EGM10	EGM 10	1.5	100	13	73	9	7	10	4
M205549-EGM12	EGM 12	1.75	110	20	81	11	9	12	4
M205549-EGM14	EGM 14	2	110	20	68	12	9	12	4
M205549-EGM16	EGM 16	2	125	25	81	14	11	14	4

C1

**WALTER
SELECT**

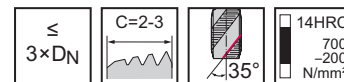
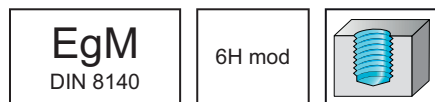
●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® X-pert N

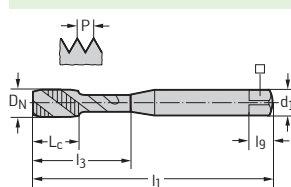


- For threaded inserts
- For long-chipping materials



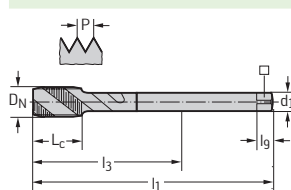
	P	M	K	N	S	H	O
uncoated				●●	●		●

DIN 40435



Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
N205069-EGM2.5	EGM 2.5	0.45	56	6	18	3.5	2.7	6	2
N205069-EGM3	EGM 3	0.5	63	7	21	4.5	3.4	6	2
N205069-EGM4	EGM 4	0.7	70	8	25	6	4.9	8	2
N205069-EGM5	EGM 5	0.8	80	10	30	6	4.9	8	3
N205069-EGM6	EGM 6	1	90	12	35	8	6.2	9	3
N205069-EGM8	EGM 8	1.25	100	15	39	10	8	11	3

DIN 40435



Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
N205569-EGM10	EGM 10	1.5	100	13	73	9	7	10	3
N205569-EGM12	EGM 12	1.75	110	20	81	11	9	12	3
N205569-EGM16	EGM 16	2	125	25	81	14	11	14	4

WALTER
SELECT

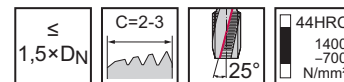
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® Ni

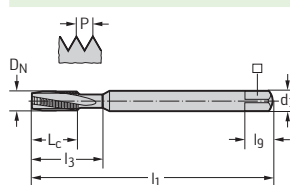


- For threaded inserts
- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●	●●	●	●	●	●

~DIN 40435



Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
204089-EGM4	EGM 4	0.7	70	16	16	6	4.9	8	3
204089-EGM5	EGM 5	0.8	80	15	23	6	4.9	8	3
204089-EGM6	EGM 6	1	90	18	29	8	6.2	9	3
204089-EGM8	EGM 8	1.25	100	20	33.5	10	8	11	4

EGM 4: Without reduced neck after the thread

C1

WALTER
SELECT

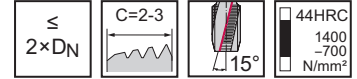
●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® Ti



- Recommended with oil
- For threaded inserts
- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●			●	●●		

~DIN 40435										
	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	204069-EGM4	EGM 4	0.7	70	16	16	6	4.9	8	3
	204069-EGM5	EGM 5	0.8	80	15	23	6	4.9	8	3
	204069-EGM6	EGM 6	1	90	18	29	8	6.2	9	3
	204069-EGM8	EGM 8	1.25	100	20	33.5	10	8	11	3

EGM 4: Without reduced neck after the thread

C1

WALTER
SELECT

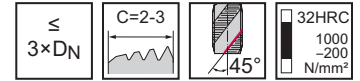
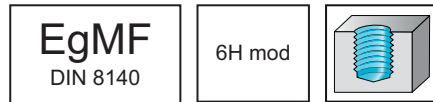
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® X-pert P



- For threaded inserts
- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 40435		Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	P215599-EGM8X1	EGMF 8x1		1	90	12	67	7	5.5	8	3
	P215599-EGM10X1	EGMF 10x1		1	100	13	73	9	7	10	3
	P215599-EGM12X1.5	EGMF 12x1.5		1.5	100	15	71	11	9	12	4
	P215599-EGM14X1.5	EGMF 14x1.5		1.5	100	15	58	12	9	12	4
	P215599-EGM16X1.5	EGMF 16x1.5		1.5	110	17	66	14	11	14	4

C1

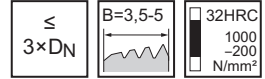
**WALTER
SELECT**

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps Prototex® X-pert P

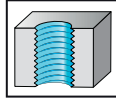


- For threaded inserts
- For long-chipping materials



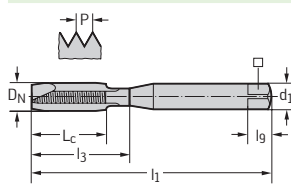
EgUNC
NASM 33537

3B



	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 2184-1



Designation uncoated	DN-P	DN mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
P223009-EGUNC6	EGUNC #6-32	4.536	32	70	13	25	6	4.9	8	3
P223009-EGUNC8	EGUNC #8-32	5.197	32	80	15	30	6	4.9	8	3
P223009-EGUNC10	EGUNC #10-24	6.201	24	80	15	30	7	5.5	8	3
P223009-EGUNC1/4	EGUNC 1/4-20	8	20	90	18	35	8	6.2	9	3

C1

**WALTER
SELECT**

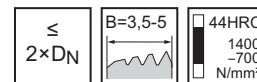
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Prototex® TiNi

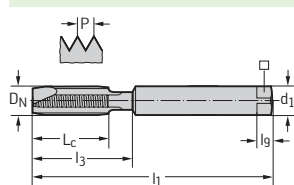


- Recommended with oil
- For threaded inserts
- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●●	●●	●●	●●	●●	●●

DIN 2184-1



Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
222079-EGUNC4	EGUNC #4-40	3.67	40	63	13	13	4.5	3.4	6	3
222079-EGUNC6	EGUNC #6-32	4.536	32	70	16	16	6	4.9	8	3
222079-EGUNC8	EGUNC #8-32	5.197	32	80	15	23	6	4.9	8	3

≤ EGUNC 6: Without reduced neck after the thread

C1

**WALTER
SELECT**

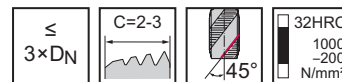
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® X-pert P



- For threaded inserts
- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 2184-1											
	Designation										
	uncoated	DN-P	DN mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	P225099-EGUNC6	EGUNC #6-32	4.536	32	70	8	25	6	4.9	8	3
	P225099-EGUNC8	EGUNC #8-32	5.197	32	80	10	30	6	4.9	8	3
	P225099-EGUNC10	EGUNC #10-24	6.201	24	80	10	30	7	5.5	8	3
	P225099-EGUNC1/4	EGUNC 1/4-20	8	20	90	12	35	8	6.2	9	3

C1

WALTER
SELECT

●● Primary application ● Other application

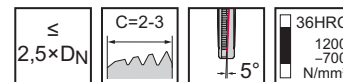
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® X-pert M

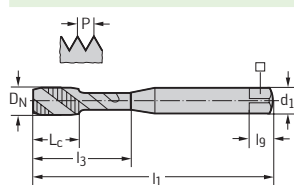


- For threaded inserts
- For long-chipping materials



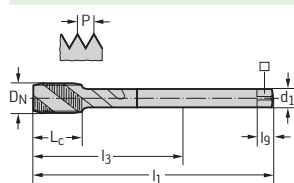
	P	M	K	N	S	H	O
VAP	●	●●					

DIN 2184-1



Designation VAP	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
M225049-EGUNC4	EGUNC #4-40	3.67	40	63	7	21	4.5	3.4	6	3
M225049-EGUNC6	EGUNC #6-32	4.536	32	70	8	25	6	4.9	8	3
M225049-EGUNC8	EGUNC #8-32	5.197	32	80	10	30	6	4.9	8	3
M225049-EGUNC10	EGUNC #10-24	6.201	24	80	10	30	7	5.5	8	3
M225049-EGUNC1/4	EGUNC 1/4-20	8	20	90	12	35	8	6.2	9	3

DIN 2184-1



Designation VAP	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
M225549-EGUNC5/16	EGUNC 5/16-18	9.771	18	100	15	77	7	5.5	8	3
M225549-EGUNC3/8	EGUNC 3/8-16	11.587	16	100	13	73	9	7	10	3
M225549-EGUNC1/2	EGUNC 1/2-13	15.238	13	110	20	68	12	9	12	4

C1

**WALTER
SELECT**

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

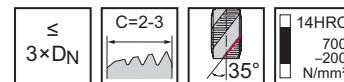
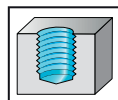
Paradur® X-pert N



- For threaded inserts
- For long-chipping materials

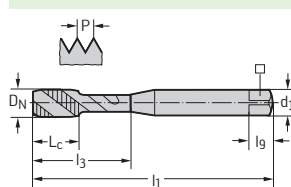
EgUNC
NASM 33537

3B



	P	M	K	N	S	H	O
uncoated				●●	●		●

DIN 2184-1



Designation uncoated	DN-P	DN mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
N225069-EGUNC6	EGUNC #6-32	4.536	32	70	8	25	6	4.9	8	2
N225069-EGUNC8	EGUNC #8-32	5.197	32	80	10	30	6	4.9	8	2
N225069-EGUNC10	EGUNC #10-24	6.201	24	80	10	30	7	5.5	8	2
N225069-EGUNC1/4	EGUNC 1/4-20	8	20	90	12	35	8	6.2	9	2

C1

**WALTER
SELECT**

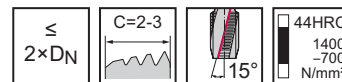
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® Ti



- Recommended with oil
- For threaded inserts
- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●			●	●●		

~DIN 2184-1	Designation	D _N -P	D _N	Threads	l ₁	L _c	l ₃	d ₁		l ₉	N
	uncoated		mm	per inch	mm	mm	mm	h9 mm		mm	
	224069-EGUNC4	EGUNC #4-40	3.67	40	63	13	13	4.5	3.4	6	3
	224069-EGUNC6	EGUNC #6-32	4.536	32	70	16	16	6	4.9	8	3
	224069-EGUNC8	EGUNC #8-32	5.197	32	80	15	23	6	4.9	8	3

≤ EGUNC 6: Without reduced neck after the thread

C1

**WALTER
SELECT**

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

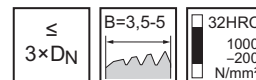
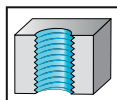
Prototex® X-pert P



- For threaded inserts
- For long-chipping materials

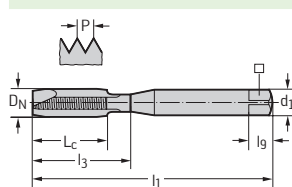
EgUNF
NASM 33537

3B



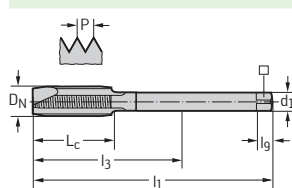
	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 2184-1



Designation uncoated	DN-P	DN mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
P233009-EGUNF6	EGUNF #6-40	4.33	40	70	13	25	6	4.9	8	3
P233009-EGUNF10	EGUNF #10-32	5.857	32	80	15	30	6	4.9	8	3
P233009-EGUNF8	EGUNF #8-36	5.083	36	80	15	30	6	4.9	8	3
P233009-EGUNF1/4	EGUNF 1/4-28	7.528	28	90	18	35	8	6.2	9	3

DIN 2184-1



Designation uncoated	DN-P	DN mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
P233509-EGUNF5/16	EGUNF 5/16-24	9.313	24	90	20	67	7	5.5	8	3
P233509-EGUNF3/8	EGUNF 3/8-24	10.9	24	90	20	66	8	6.2	9	3
P233509-EGUNF7/16	EGUNF 7/16-20	12.763	20	100	21	73	9	7	10	4
P233509-EGUNF1/2	EGUNF 1/2-20	14.35	20	100	21	71	11	9	12	4

**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps
Prototex® X-pert M



- For threaded inserts
- For long-chipping materials

EgUNF
NASM 33537

3B

$\leq 3 \times D_N$

B=3,5-5

36HRC
1200
-700
N/mm²

	P	M	K	N	S	H	O
VAP	●	●●					

DIN 2184-1											
	Designation VAP	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	M233009-EGUNF10	EGUNF #10-32	5.857	32	80	15	30	6	4.9	8	3
M233009-EGUNF8	EGUNF #8-36		5.083	36	80	15	30	6	4.9	8	3
M233009-EGUNF1/4	EGUNF 1/4-28		7.528	28	90	18	35	8	6.2	9	3

C1

WALTER
SELECT

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E PM machine taps

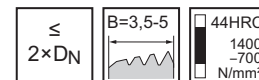
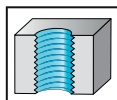
Prototex® TiNi



- Recommended with oil
- For threaded inserts
- For long-chipping materials

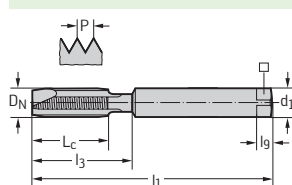
EgUNF
NASM 33537

3B



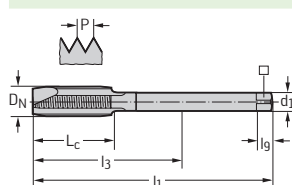
	P	M	K	N	S	H	O
uncoated	●●	●●	●●	●●	●●	●●	●●

~DIN 2184-1



Designation uncoated	DN-P	DN mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
232079-EGUNF10	EGUNF #10-32	5.857	32	80	15	23	6	4.9	8	3
232079-EGUNF1/4	EGUNF 1/4-28	7.528	28	90	18	29.5	8	6.2	9	3
232079-EGUNF5/16	EGUNF 5/16-24	9.313	24	100	20	33.5	10	8	11	3

DIN 2184-1



Designation uncoated	DN-P	DN mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
232579-EGUNF3/8	EGUNF 3/8-24	10.9	24	100	20	76	8	6.2	9	3

**WALTER
SELECT**

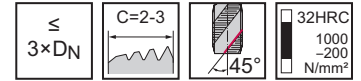
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® X-pert P



- For threaded inserts
- For long-chipping materials

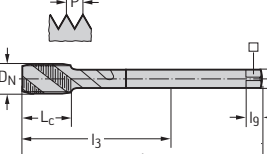


	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 2184-1

Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
P235099-EGUNF6	EGUNF #6-40	4.33	40	70	8	25	6	4.9	8	3
P235099-EGUNF8	EGUNF #8-36	5.083	36	80	10	30	6	4.9	8	3
P235099-EGUNF10	EGUNF #10-32	5.857	32	80	10	30	6	4.9	8	3
P235099-EGUNF1/4	EGUNF 1/4-28	7.528	28	90	12	35	8	6.2	9	3

DIN 2184-1



Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	d ₁ h9 mm		l _g mm	N
P235599-EGUNF5/16	EGUNF 5/16-24	9.313	24	90	12	7	5.5	8	3
P235599-EGUNF3/8	EGUNF 3/8-24	10.9	24	90	15	8	6.2	9	3
P235599-EGUNF7/16	EGUNF 7/16-20	12.763	20	100	13	9	7	10	4
P235599-EGUNF1/2	EGUNF 1/2-20	14.35	20	100	15	11	9	12	4

C1

**WALTER
SELECT**

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

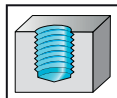
Paradur® X-pert M



- For threaded inserts
- For long-chipping materials

EgUNF
NASM 33537

3B



$\leq$
 $2,5 \times D_N$

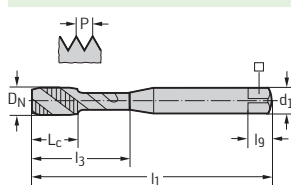
C=2-3

$\angle 40^\circ$

36HRC
1200
~700
N/mm²

	P	M	K	N	S	H	O
VAP	●	●●					

DIN 2184-1



Designation
VAP

D_N-P

D_N
mm

Threads
per inch

l₁
mm

L_c
mm

l₃
mm

d₁
h9
mm

□

l_g
mm

N

M235049-
EGUNF10

EGUNF
#10-32

5.857

32

80

10

30

6

4.9

8

3

M235049-
EGUNF1/4

EGUNF
1/4-28

7.528

28

90

12

35

8

6.2

9

3

C1

**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps
Paradur® X-pert N



- For threaded inserts
- For long-chipping materials

EgUNF
NASM 33537

3B

$\leq 3 \times D_N$

C=2-3

35°

14HRC
700
-200
N/mm²

	P	M	K	N	S	H	O
uncoated				●●	●		●

DIN 2184-1											
	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	N235069-EGUNF10	EGUNF #10-32	5.857	32	80	10	30	6	4.9	8	2
	N235069-EGUNF1/4	EGUNF 1/4-28	7.528	28	90	12	35	8	6.2	9	3

WALTER
SELECT

●● Primary application ● Other application

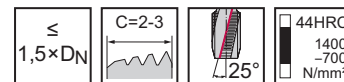
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® Ni



- For threaded inserts
- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●	●●	●	●	●	●

~DIN 2184-1											
Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N	
234079-EGUNF10	EGUNF #10-32	5.857	32	80	15	23	6	4.9	8	3	
234079-EGUNF1/4	EGUNF 1/4-28	7.528	28	90	18	29.5	8	6.2	9	3	
234079-EGUNF5/16	EGUNF 5/16-24	9.313	24	100	20	33.5	10	8	11	4	

DIN 2184-1											
Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N	
234579-EGUNF3/8	EGUNF 3/8-24	10.9	24	100	20	76	8	6.2	9	4	

C1

WALTER
SELECT

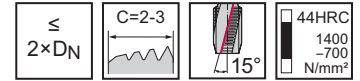
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® Ti



- Recommended with oil
- For threaded inserts
- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●			●	●●		

~DIN 2184-1											
Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N	
234069-EGUNF10	EGUNF #10-32	5.857	32	80	15	23	6	4.9	8	3	
234069-EGUNF1/4	EGUNF 1/4-28	7.528	28	90	18	29.5	8	6.2	9	3	
234069-EGUNF5/16	EGUNF 5/16-24	9.313	24	100	20	33.5	10	8	11	3	

DIN 2184-1											
Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N	
234569-EGUNF3/8	EGUNF 3/8-24	10.9	24	100	20	76	8	6.2	9	4	

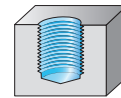
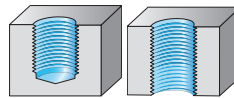
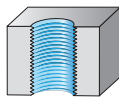
C1

**WALTER
SELECT**

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide taps

Machining



Thread depth

 $2 \times D_N$
 $2 \times D_N$
 $2 \times D_N$
 $3 \times D_N$
 $1,5 \times D_N$

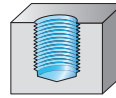

Designation	Prototex® HSC	TC388 Supreme	TC389 Supreme	Paradur® HS	Paradur® N
Thread type					
M	✓	✓	✓	✓	✓
MF	✓			✓	
UNC / UNF / UN-8				✓	
G / Rc / Rp		✓			
MJ / UNJC / UNJF					
NPT / NPTF					
Pg / BSW / Tr					
STI / Eg / thread insert					
Tolerance	6HX	6HX / NORMAL	6HX	2B / 6H	6H
Coolant supply	Precision cooling	External	External	External	External
Chamfer form	B	C	D	C	C
Coating / grade	TICN	WJ30TU	WE10TU	TICN / uncoated	TICN / uncoated
Cutting tool material	CARBIDE	CARBIDE	CARBIDE	CARBIDE	CARBIDE
P Steel	●●				●●
M Stainless steel					
K Cast iron	●●			●	●●
N NF metals				●●	●●
S Materials with difficult cutting properties		●	●	●	
H Hard materials		●●	●●	●	
O Other				●●	●
Page in catalog	C 280	C 297	C 289	C 286	C 282
QR code					
www.walter-tools.com/woc/	prototex-hsc	TC388	TC389	paradur-hs	paradur-n

WALTER SELECT

●● Primary application ● Other application

Solid carbide taps

Machining



Thread depth

2 x D_N3 x D_N3 x D_N3,5 x D_N3,5 x D_N

Designation	Paradrur® HSC	Paradrur® Engine	Paradrur® HS	Paradrur® GG	Paradrur® N
Thread type					
M	✓	✓	✓	✓	✓
MF	✓	✓		✓	
UNC / UNF / UN-8					
G / Rc / Rp					
MJ / UNJC / UNJF					
NPT / NPTF					
Pg / BSW / Tr					
STI / Eg / thread insert					
Tolerance	6HX	6HX	6H	6HX	6H
Coolant supply	axial	axial	axial	axial	axial
Chamfer form	C	E	C	C	C
Coating / grade	TICN	uncoated	TICN	TAFT / uncoated	uncoated
Cutting tool material	CARBIDE	CARBIDE	CARBIDE	CARBIDE	CARBIDE
P Steel	●●				
M Stainless steel					
K Cast iron	●●	●●	●	●●	●●
N NF metals		●●	●●	●	●●
S Materials with difficult cutting properties			●		
H Hard materials	●●		●		
O Other			●●	●	●
Page in catalog	C 281	C 285	C 287	C 284	C 283
QR code					
www.walter-tools.com/woc/	paradrur-hsc	paradrur-engine	paradrur-hs	paradrur-gg	paradrur-n

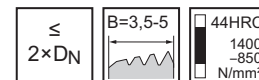
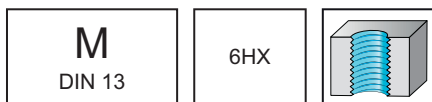
C1

Solid carbide machine taps

Prototex® HSC

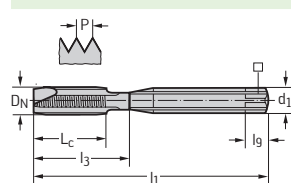


- For long-chipping materials
- Cooling grooves on the shank



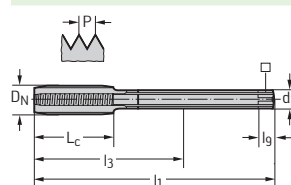
	P	M	K	N	S	H	O
TICN	●●		●●				

DIN 371



Designation TICN	DN	P mm	l ₁ mm	l _c mm	l ₃ mm	d ₁ h6 mm	□	l _g mm	N
8021006-M6	M 6	1	80	19	30	6	4.9	8	3
8021006-M8	M 8	1.25	90	22	35	8	6.2	9	4
8021006-M10	M 10	1.5	100	24	39	10	8	11	4

DIN 376



Designation TICN	DN	P mm	l ₁ mm	l _c mm	l ₃ mm	d ₁ h6 mm	□	l _g mm	N
8026006-M12	M 12	1.75	110	23	83	9	7	10	5

WALTER
SELECT

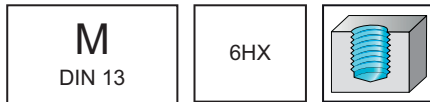
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide machine taps

Paradur® HSC

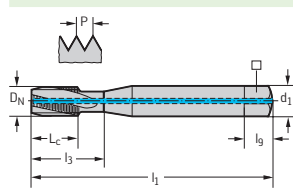


– For long- and short-chipping materials



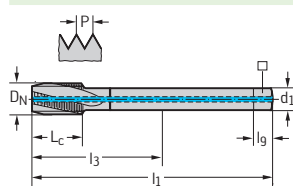
	P	M	K	N	S	H	O
TICN	●●	●●	●●	●●	●●	●●	●●

DIN 371



Designation TICN	DN	P mm	l ₁ mm	l _c mm	l ₃ mm	d ₁ h6 mm		l _g mm	N
8041056-M6	M 6	1	80	15	30	6	4.9	8	3
8041056-M8	M 8	1.25	90	20	35	8	6.2	9	3
8041056-M10	M 10	1.5	100	25	39	10	8	11	3

DIN 376



Designation TICN	DN	P mm	l ₁ mm	l _c mm	l ₃ mm	d ₁ h6 mm		l _g mm	N
8046056-M12	M 12	1.75	110	23	83	9	7	10	4

C1

**WALTER
SELECT**

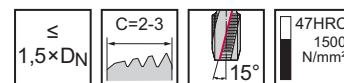
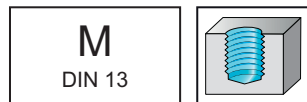
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide machine taps

Paradur® N



– For long- and short-chipping materials



	P	M	K	N	S	H	O
uncoated			●●	●●			●
TiCN	●●		●●	●●			●

~DIN 371	Designation TiCN	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□	l _g mm	N
	8041006-M3	80410-M3	M 3	0.5	56	10	10	3.5	2.7	6	3
	8041006-M4	80410-M4	M 4	0.7	63	13	13	4.5	3.4	6	3
	8041006-M5	80410-M5	M 5	0.8	70	16	16	6	4.9	8	3
	8041006-M6	80410-M6	M 6	1	80	19	30	6	4.9	8	3
	8041006-M8	80410-M8	M 8	1.25	90	22	35	8	6.2	9	3
		80410-M10	M 10	1.5	100	24	39	10	8	11	3

C1

**WALTER
SELECT**

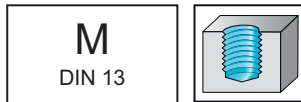
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide machine taps

Paradur® N

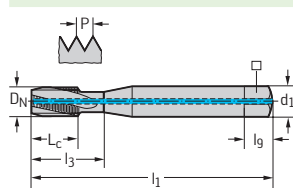


– For long- and short-chipping materials



	P	M	K	N	S	H	O
uncoated			●●	●●			●

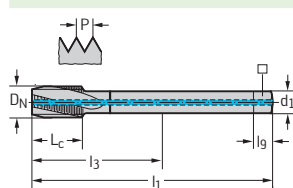
DIN 371



Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm		l _g mm	N
804101-M5	M 5	0.8	70	16	16	6	4.9	8	3
804101-M6	M 6	1	80	19	30	6	4.9	8	3
804101-M8	M 8	1.25	90	22	35	8	6.2	9	3
804101-M10	M 10	1.5	100	24	39	10	8	11	3

M 5: Without reduced neck after the thread

DIN 376



Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm		l _g mm	N
804601-M12	M 12	1.75	110	23	83	9	7	10	3

C1

**WALTER
SELECT**

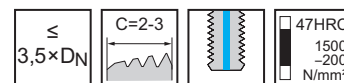
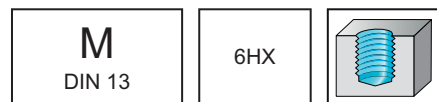
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide machine taps

Paradur® GG



– For short-chipping materials



	P	M	K	N	S	H	O
uncoated			●●	●			●
TAFT			●●	●			●

DIN 371	Designation TAFT	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□	l ₉ mm	N
	8031417-M5	803141-M5	M 5	0.8	70	16	16	6	4.9	8	4
	8031417-M6	803141-M6	M 6	1	80	19	30	6	4.9	8	4
	8031417-M8	803141-M8	M 8	1.25	90	22	35	8	6.2	9	4
	8031417-M10	803141-M10	M 10	1.5	100	24	39	10	8	11	4

M 5: Without reduced neck after the thread

C1

**WALTER
SELECT**

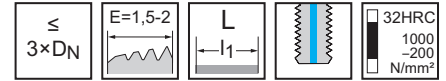
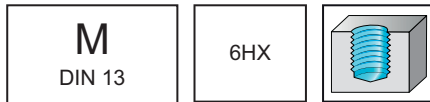
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide machine taps

Paradur® Engine



– Suitable coating according to requirements



	P	M	K	N	S	H	O
uncoated			●●	●●			

~DIN 371 L

Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm		l ₉ mm	N
8031310-M6	M 6	1	80	15	30	6	4.9	8	3
8031310-M7	M 7	1	100	15	30	7	5.5	8	3
8031310-M8	M 8	1.25	120	18	35	8	6.2	9	3
8031310-M10	M 10	1.5	140	20	39	10	8	11	3

~DIN 376 L

Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm		l ₉ mm	N
8036310-M12	M 12	1.75	140	23	113	9	7	10	4

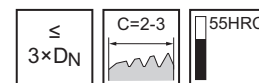
C1

**WALTER
SELECT**

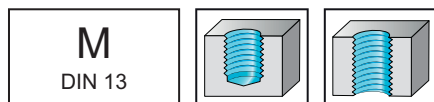
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide machine taps

Paradur® HS



– For short-chipping materials



	P	M	K	N	S	H	O
uncoated			●	●	●	●	●
TiCN			●	●	●	●	●

~DIN 371	Designation TiCN	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□	l ₉ mm	N
	8031106-M3	80311-M3	M 3	0.5	56	10	35	3.5	2.7	6	3
	8031106-M4	80311-M4	M 4	0.7	63	13	42	4.5	3.4	6	3
	8031106-M5	80311-M5	M 5	0.8	70	16	47	6	4.9	8	3
	8031106-M6	80311-M6	M 6	1	80	20	57	6	4.9	8	3
	8031106-M8	80311-M8	M 8	1.25	90	25	66	8	6.2	9	3
	8031106-M10		M 10	1.5	100	30	72	10	8	11	3
	8031106-M12		M 12	1.75	110	36	68	12	9	12	3

Without reduced neck after the thread

C1

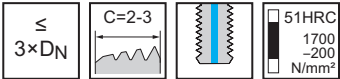
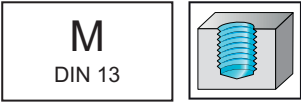
WALTER
SELECT

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide machine taps
Paradur® HS



– For short-chipping materials



	P	M	K	N	S	H	O
TICN			●	●●	●	●	●●

~DIN 371										
	Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm		l ₉ mm	N
	8031116-M5	M 5	0.8	70	16	16	6	4.9	8	3
	8031116-M6	M 6	1	80	19	30	6	4.9	8	3
	8031116-M7	M 7	1	80	19	30	7	5.5	8	3
	8031116-M8	M 8	1.25	90	22	35	8	6.2	9	3
	8031116-M10	M 10	1.5	100	24	39	10	8	11	3

M 5: Without reduced neck after the thread

C1

WALTER
SELECT

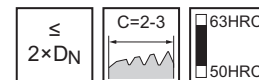
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide machine taps

TC388 Supreme



- Taps for hardened materials
- Drill core hole at upper tolerance end



	P	M	K	N	S	H	O
WJ30TU (AlTiSiN)					●	●●	

~DIN 371	Designation WJ30TU	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□	l _g mm	N
	TC388-M3-C0-	M 3	0.5	56	8	35	3.5	2.7	6	4
	TC388-M4-C0-	M 4	0.7	63	11	42	4.5	3.4	6	5
	TC388-M5-C0-	M 5	0.8	70	13.5	47	6	4.9	8	5
	TC388-M6-C0-	M 6	1	80	16.5	57	6	4.9	8	5
	TC388-M8-C0-	M 8	1.25	90	21.5	66	8	6.2	9	5
	TC388-M10-C0-	M 10	1.5	100	27	72	10	8	11	5
	TC388-M12-C0-	M 12	1.75	110	32	68	12	9	12	6
	TC388-M16-C0-	M 16	2	110	41	65	16	12	15	6

Without reduced neck after the thread
Ordering example for the grade WJ30TU: TC388-M10-C0-WJ30TU

C1

WALTER
SELECT

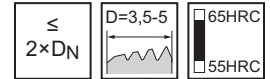
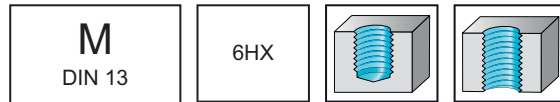
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide machine taps

TC389 Supreme



- Taps for hardened materials
- Drill core hole at upper tolerance end



	P	M	K	N	S	H	O
WE10TU (AITiSiN)					●	●●	

~DIN 371	Designation WE10TU	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□	l ₉ mm	N
	TC389-M3-CD-	M 3	0.5	56	9	35	3.5	2.7	6	4
	TC389-M4-CD-	M 4	0.7	63	12	42	4.5	3.4	6	5
	TC389-M5-CD-	M 5	0.8	70	14.5	47	6	4.9	8	5
	TC389-M6-CD-	M 6	1	80	18	57	6	4.9	8	5
	TC389-M8-CD-	M 8	1.25	90	23.5	66	8	6.2	9	5
	TC389-M10-CD-	M 10	1.5	100	29	72	10	8	11	5
	TC389-M12-CD-	M 12	1.75	110	34.5	68	12	9	12	6
	TC389-M16-CD-	M 16	2	110	44	65	16	12	15	6

Without reduced neck after the thread

Ordering example for the grade WE10TU: TC389-M10-CD-WE10TU

C1

**WALTER
SELECT**

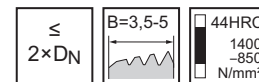
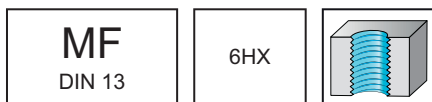
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide machine taps

Prototex® HSC

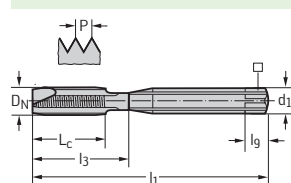


- For long-chipping materials
- Cooling grooves on the shank



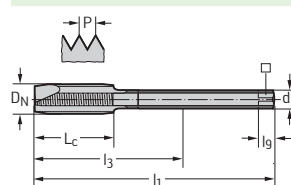
	P	M	K	N	S	H	O
TICN	●●		●●				

DIN 371



Designation TICN	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□	l _g mm	N
8121006-M8X1	MF 8x1	1	90	22	35	8	6.2	9	4
8121006-M10X1	MF 10x1	1	90	24	39	10	8	11	4

DIN 374



Designation TICN	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□	l _g mm	N
8126006-M12X1.5	MF 12x1.5	1.5	100	21	73	9	7	10	5
8126006-M14X1.5	MF 14x1.5	1.5	100	21	71	11	9	12	5
8126006-M16X1.5	MF 16x1.5	1.5	100	21	58	12	9	12	5

WALTER
SELECT

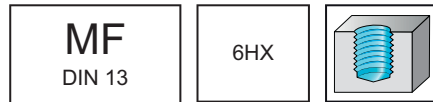
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide machine taps

Paradur® HSC



– For long-chipping materials



	P	M	K	N	S	H	O
TICN	●●	●●	●●	●●	●●	●●	●●

~DIN 371		Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□	l ₉ mm	N
	8141056-M6X0.75	MF 6x0.75		0.75	80	15	30	6	4.9	8	3
	8141056-M8X1	MF 8x1		1	90	20	35	8	6.2	9	3
	8141056-M10X1	MF 10x1		1	90	25	39	10	8	11	3

DIN 374		Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□	l ₉ mm	N
	8146056-M12X1	MF 12x1		1	100	20	73	9	7	10	3
	8146056-M12X1.5	MF 12x1.5		1.5	100	20	73	9	7	10	4
	8146056-M14X1.5	MF 14x1.5		1.5	100	21	71	11	9	12	4
	8146056-M16X1.5	MF 16x1.5		1.5	100	21	58	12	9	12	4

C1

**WALTER
SELECT**

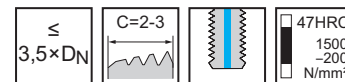
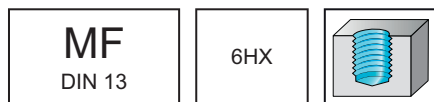
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide machine taps

Paradur® GG

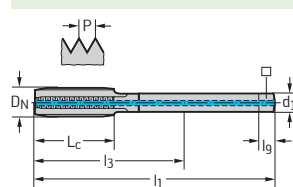


– For short-chipping materials



	P	M	K	N	S	H	O
TAPT			●●	●			●

DIN 374



Designation TAPT	DN	P mm	l ₁ mm	l _c mm	l ₃ mm	d ₁ h6 mm	□	l ₉ mm	N
8136417-M8X1	MF 8x1	1	90	12	67	6	4.9	8	4
8136417-M10X1	MF 10x1	1	90	14	67	7	5.5	8	4
8136417-M12X1.5	MF 12x1.5	1.5	100	20	73	9	7	10	4

C1

**WALTER
SELECT**

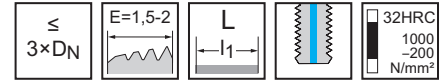
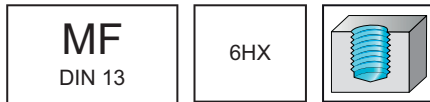
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide machine taps

Paradur® Engine



- Suitable coating according to requirements
- For short-chipping materials



	P	M	K	N	S	H	O
uncoated			●●	●●			

~DIN 374 L		Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□	l ₉ mm	N
	8136310-M10X1	MF 10x1		1	140	20	117	7	5.5	8	4
	8136310-M12X1.25	MF 12x1.25		1.25	140	21	113	9	7	10	4
	8136310-M12X1.5	MF 12x1.5		1.5	140	21	113	9	7	10	4
	8136310-M16X1.5	MF 16x1.5		1.5	140	21	98	12	9	12	4

C1

**WALTER
SELECT**

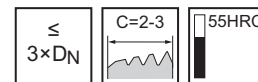
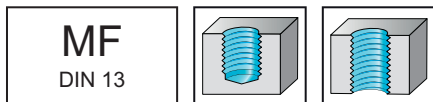
●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide machine taps

Paradur® HS



– For short-chipping materials



	P	M	K	N	S	H	O
uncoated			●	●●	●	●	●●

~DIN 371	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□	l _g mm	N
	81311-M8X1	MF 8x1	1	90	25	66	8	6.2	9	4
	81311-M10X1	MF 10x1	1	90	30	62	10	8	11	4
	81311-M14X1.5	MF 14x1.5	1.5	100	21	56	14	11	14	4
	81311-M16X1.5	MF 16x1.5	1.5	100	21	55	16	12	15	4

Without reduced neck after the thread

C1

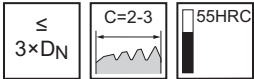
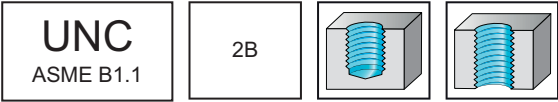
WALTER
SELECT

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide machine taps
Paradur® HS



– For short-chipping materials



	P	M	K	N	S	H	O
TICN			●	●●	●	●	●●

~DIN 2184-1											
	Designation TICN	D _N -P	D _N mm	Threaded inserts	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm		l ₉ mm	N
	8231106-UNC10	UNC #10-24	4.826	24	70	16	16	6	4.9	8	3
	8231106-UNC1/4	UNC 1/4-20	6.35	20	80	20	20	7	5.5	8	3
	8231106-UNC5/16	UNC 5/16-18	7.938	18	90	25	25	8	6.2	9	3
	8231106-UNC3/8	UNC 3/8-16	9.525	16	100	30	30	10	8	11	3

Without reduced neck after the thread

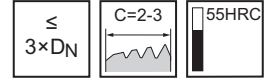
C1

Solid carbide machine taps

Paradur® HS



– For short-chipping materials



	P	M	K	N	S	H	O
TICN			●●	●●	●	●	●●

~DIN 2184-1											
	Designation TICN	D _N -P	D _N mm	Threaded inserts	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□	l ₉ mm	N
	8331106-UNF10	UNF #10-32	4.826	32	70	16	47	6	4.9	8	3
	8331106-UNF1/4	UNF 1/4-28	6.35	28	80	20	57	7	5.5	8	3
	8331106-UNF3/8	UNF 3/8-24	9.525	24	90	30	62	10	8	11	3

Without reduced neck after the thread

C1

WALTER
SELECT

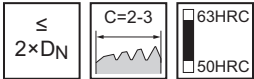
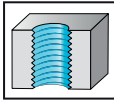
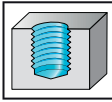
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide machine taps
TC388 Supreme



- Taps for hardened materials
- Drill core hole at upper tolerance end

G (BSP)
DIN EN ISO 228



	P	M	K	N	S	H	O
WJ30TU (AITiSiN)					●	●●	

~DIN 371	Designation										
	WJ30TU	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□	l ₉ mm	N
	TC388-G1/8-C0-	G 1/8-28	9.728	28	90	23.5	62	10	8	11	5
	TC388-G1/4-C0-	G 1/4-19	13.157	19	100	32.5	56	14	11	14	6

Without reduced neck after the thread
Ordering example for the grade WJ30TU: TC388-G1/4-C0-WJ30TU

C1

WALTER
SELECT

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

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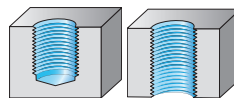
 **WALTER**
Engineering Kompetenz

C – Threading

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UNC, UNF	349
G	353

HSS-E and solid carbide thread formers

Machining



Thread depth

 $2 \times D_N$
 $3 \times D_N$
 $3 \times D_N$
 $3 \times D_N$
 $3 \times D_N$


Designation

Protodyn® Eco LM

Protodyn® C

TC410 Advance

TC420 Supreme

TC430 Supreme

Thread type

M

✓

✓

✓

✓

✓

MF

UNC / UNF / UN-8

G / Rc / Rp

MJ / UNJC / UNJF

NPT / NPTF

Pg / BSW / Tr

STI / Eg / thread inserts

Tolerance

6HX

6GX / 6HX

6GX / 6HX / 7GX

6GX / 6HX

6HX

Coolant supply

External

External

External

External

External

Chamfer form

C

C

C / D

C

C

Coating / grade

CRN

NID / uncoated

WY80AD

WW60AD / WW60BA

WW60EL

Cutting tool material

HSS-E

HSS-E

HSS-E

HSS-E-PM

HSS-E-PM

P Steel

●

●

●●

●●

●●

M Stainless steel

●

●

●●

●

●

K Cast iron

●

●

●

●

●

N NF metals

●●

●●

●●

●●

●

S Materials with difficult cutting properties

●●

●

●

●

●

H Hard materials

O Other

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www.walter-tools.com/woc/

protodyn-eco-lm

protodyn-c

TC410

TC420

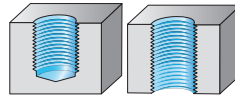
TC430

WALTER SELECT

●● Primary application ● Other application

HSS-E and solid carbide thread formers

Machining



Thread depth

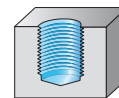
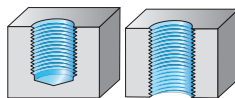
3 x D_N3,5 x D_N3,5 x D_N3,5 x D_N3,5 x D_N

Designation	TC470 Supreme	Protodyn® S Synchrospeed	Protodyn® SC	Protodyn® SF	TC410 Advance
Thread type					
M	✓	✓	✓	✓	✓
MF		✓		✓	✓
UNC / UNF / UN-8					✓
G / Rc / Rp				✓	✓
MJ / UNJC / UNJF					
NPT / NPTF					
Pg / BSW / Tr					
STI / Eg / thread inserts					
Tolerance	6HX	6HX	6GX / 6HX	6HX / NORMAL	2BX / 6GX / 6HX / 7GX / NORMAL
Coolant supply	External	External / radial	External	External	External
Chamfer form	C	C	C	C	C
Coating / grade	WG20EL	TICN / TIN	NiD / uncoated	TICN	WY80AD
Cutting tool material	CARBIDE	HSS-E	HSS-E	HSS-E	HSS-E
P Steel	●●	●●	●	●●	●●
M Stainless steel		●●		●●	●●
K Cast iron	●				●
N NF metals	●	●●	●	●●	●●
S Materials with difficult cutting properties		●		●	●
H Hard materials					
O Other					
Page in catalog	C 331	Online only	Online only	C 354	C 353
QR code					
www.walter-tools.com/woc/	TC470	protodyn-s-synchrospeed	protodyn-sc	protodyn-sf	TC410

C2

HSS-E and solid carbide thread formers

Machining



Thread depth

 $3,5 \times D_N$
 $3,5 \times D_N$
 $3,5 \times D_N$
 $3,5 \times D_N$
 $3,5 \times D_N$


Designation

TC420 Supreme

TC430 Supreme

TC440 Supreme

TC470 Supreme

TC410 Advance

Thread type

M

✓

✓

✓

✓

MF

✓

✓

✓

✓

✓

UNC / UNF / UN-8

G / Rc / Rp

MJ / UNJC / UNJF

NPT / NPTF

Pg / BSW / Tr

STI / Eg / thread inserts

Tolerance

6GX / 6HX

6GX / 6HX

6HX

6HX

6GX

Coolant supply

External / radial

External / radial

External / radial

External / radial

External

Chamfer form

C

C

C

C

E

Coating / grade

WW60AD / WW60BA

WW60AD / WW60EL

WY80AD

WG20EL

WY80AD

Cutting tool material

HSS-E-PM

HSS-E-PM

HSS-E

CARBIDE

HSS-E

P Steel

●●

●●

●

●●

●●

M Stainless steel

●●

●

●●

●

●

K Cast iron

●

●

●

●

●

N NF metals

●●

●

●

●

●●

S Materials with difficult cutting properties

●

●

●

●

●

H Hard materials

O Other

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TC420

TC430

TC440

TC470

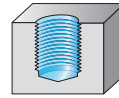
TC410

WALTER SELECT

●● Primary application ● Other application

HSS-E and solid carbide thread formers

Machining



Thread depth

3,5 x D_N3,5 x D_N3,5 x D_N3,5 x D_N

Designation

TC420 Supreme

TC430 Supreme

TC440 Supreme

TC470 Supreme

Thread type

M

✓

✓

✓

✓

MF

✓

✓

✓

UNC / UNF / UN-8

G / Rc / Rp

MJ / UNJC / UNJF

NPT / NPTF

Pg / BSW / Tr

STI / Eg / thread insert

Tolerance

6GX / 6HX

6HX

6HX

6HX

Coolant supply

External / axial

axial

axial

axial

Chamfer form

C / E

C

C

C / E

Coating / grade

WW60AD / WW60BA

WW60AD / WW60EL

WY80AD

WG20EL

Cutting tool material

HSS-E-PM

HSS-E-PM

HSS-E

CARBIDE

P Steel

●●

●●

●

●●

M Stainless steel

●●

●

●●

K Cast iron

●

●

●

●

N NF metals

●●

●

●

●

S Materials with difficult cutting properties

●

●

H Hard materials

O Other

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www.walter-tools.com/woc/

TC420

TC430

TC440

TC470

WALTER SELECT

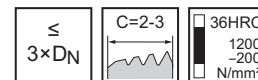
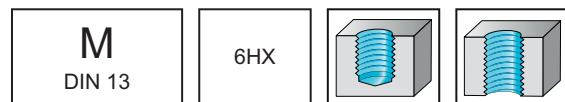
●● Primary application ● Other application

HSS-E machine thread formers

TC410 Advance



– For long-chipping materials



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●	●	●●	●		

DIN 2174	Designation WY80AD	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC410-M1-C0-	M 1	0.25	40	5	5	2.5	2.1	5	3
	TC410-M1.1-C0-	M 1.1	0.25	40	5	5	2.5	2.1	5	3
	TC410-M1.2-C0-	M 1.2	0.25	40	5	5	2.5	2.1	5	3
	TC410-M1.4-C0-	M 1.4	0.3	40	7	7	2.5	2.1	5	3
	TC410-M1.6-C0-	M 1.6	0.35	40	7	7	2.5	2.1	5	3
	TC410-M1.7-C0-	M 1.7	0.35	40	7	7	2.5	2.1	5	3
	TC410-M1.8-C0-	M 1.8	0.35	40	7	7	2.5	2.1	5	3
	TC410-M2-C0-	M 2	0.4	45	6	11	2.8	2.1	5	3
	TC410-M2.2-C0-	M 2.2	0.45	45	7	12	2.8	2.1	5	3
	TC410-M2.3-C0-	M 2.3	0.4	45	7	12	2.8	2.1	5	3
	TC410-M2.5-C0-	M 2.5	0.45	50	8	13	2.8	2.1	5	3
	TC410-M2.6-C0-	M 2.6	0.45	50	8	14	2.8	2.1	5	3
	TC410-M3-C0-	M 3	0.5	56	9	18	3.5	2.7	6	4
	TC410-M3.5-C0-	M 3.5	0.6	56	11	20	4	3	6	4
	TC410-M4-C0-	M 4	0.7	63	12	21	4.5	3.4	6	5
	TC410-M5-C0-	M 5	0.8	70	13	25	6	4.9	8	5
	TC410-M6-C0-	M 6	1	80	15	30	6	4.9	8	5
	TC410-M7-C0-	M 7	1	80	15	30	7	5.5	8	5
	TC410-M8-C0-	M 8	1.25	90	18	35	8	6.2	9	5
	TC410-M10-C0-	M 10	1.5	100	20	39	10	8	11	6

Ordering example for the grade WY80AD: TC410-M1-C0-WY80AD

DIN 2174	Designation WY80AD	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC410-M12-L0-	M 12	1.75	110	23	83	9	7	10	6
	TC410-M14-L0-	M 14	2	110	25	81	11	9	12	6
	TC410-M16-L0-	M 16	2	110	25	68	12	9	12	6
	TC410-M18-L0-	M 18	2.5	125	30	81	14	11	14	7
	TC410-M20-L0-	M 20	2.5	140	30	95	16	12	15	7
	TC410-M24-L0-	M 24	3	160	36	113	18	14.5	17	8

Ordering example for the grade WY80AD: TC410-M12-L0-WY80AD

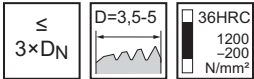
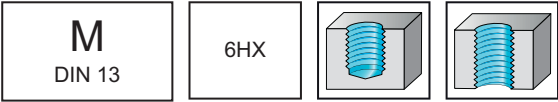
**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine thread formers
TC410 Advance

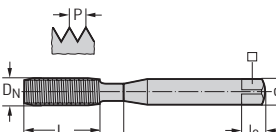


– For long-chipping materials



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●	●	●●	●		

DIN 2174

	Designation WY80AD	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	TC410-M2-CD-	M 2	0.4	45	6	11	2.8	2.1	5	3
	TC410-M3-CD-	M 3	0.5	56	9	18	3.5	2.7	6	4
	TC410-M4-CD-	M 4	0.7	63	12	21	4.5	3.4	6	5
	TC410-M5-CD-	M 5	0.8	70	13	25	6	4.9	8	5
	TC410-M6-CD-	M 6	1	80	15	30	6	4.9	8	5
	TC410-M8-CD-	M 8	1.25	90	18	35	8	6.2	9	5

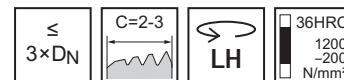
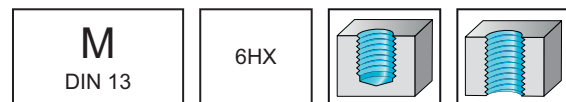
Ordering example for the grade WY80AD: TC410-M2-CD-WY80AD

HSS-E machine thread formers

TC410 Advance



– For long-chipping materials



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●●	●	●●	●		

DIN 2174	Designation WY80AD	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	TC410-M3-CL-	M 3	0.5	56	9	18	3.5	2.7	6	4
	TC410-M4-CL-	M 4	0.7	63	12	21	4.5	3.4	6	5
	TC410-M5-CL-	M 5	0.8	70	13	25	6	4.9	8	5
	TC410-M6-CL-	M 6	1	80	15	30	6	4.9	8	5
	TC410-M8-CL-	M 8	1.25	90	18	35	8	6.2	9	5
	TC410-M10-CL-	M 10	1.5	100	20	39	10	8	11	6

Ordering example for the grade WY80AD: TC410-M10-CL-WY80AD

DIN 2174	Designation WY80AD	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	TC410-M12-LL-	M 12	1.75	110	23	83	9	7	10	6
	TC410-M16-LL-	M 16	2	110	25	68	12	9	12	6

Ordering example for the grade WY80AD: TC410-M12-LL-WY80AD

**WALTER
SELECT**

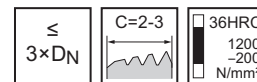
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine thread formers

TC410 Advance

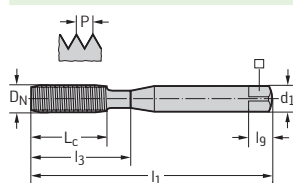


– For long-chipping materials



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●	●	●●	●		

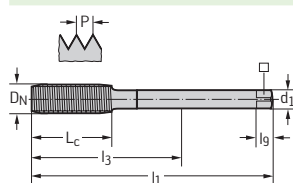
DIN 2174



Designation WY80AD	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
TC410-M2-E0-	M 2	0.4	45	6	11	2.8	2.1	5	3
TC410-M2.5-E0-	M 2.5	0.45	50	8	14	2.8	2.1	5	3
TC410-M3-E0-	M 3	0.5	56	9	18	3.5	2.7	6	4
TC410-M3.5-E0-	M 3.5	0.6	56	11	20	4	3	6	4
TC410-M4-E0-	M 4	0.7	63	12	21	4.5	3.4	6	5
TC410-M5-E0-	M 5	0.8	70	13	25	6	4.9	8	5
TC410-M6-E0-	M 6	1	80	15	30	6	4.9	8	5
TC410-M8-E0-	M 8	1.25	90	18	35	8	6.2	9	5
TC410-M10-E0-	M 10	1.5	100	20	39	10	8	11	6

Ordering example for the grade WY80AD: TC410-M10-E0-WY80AD

DIN 2174



Designation WY80AD	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
TC410-M12-N0-	M 12	1.75	110	23	83	9	7	10	6

Ordering example for the grade WY80AD: TC410-M12-N0-WY80AD

**WALTER
SELECT**

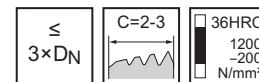
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine thread formers

TC410 Advance



– For long-chipping materials



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●	●	●●	●		

DIN 2174	Designation WY80AD	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC410-M2-F0-	M 2	0.4	45	6	11	2.8	2.1	5	3
	TC410-M2.5-F0-	M 2.5	0.45	50	8	14	2.8	2.1	5	3
	TC410-M3-F0-	M 3	0.5	56	9	18	3.5	2.7	6	4
	TC410-M4-F0-	M 4	0.7	63	12	21	4.5	3.4	6	5
	TC410-M5-F0-	M 5	0.8	70	13	25	6	4.9	8	5
	TC410-M6-F0-	M 6	1	80	15	30	6	4.9	8	5
	TC410-M8-F0-	M 8	1.25	90	18	35	8	6.2	9	5
	TC410-M10-F0-	M 10	1.5	100	20	39	10	8	11	6

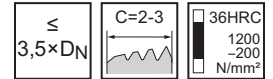
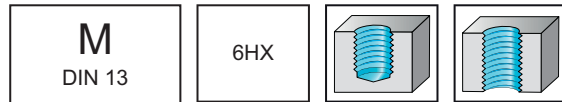
Ordering example for the grade WY80AD: TC410-M10-F0-WY80AD

HSS-E machine thread formers

TC410 Advance



– For long-chipping materials



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●●	●●	●●	●		

DIN 2174	Designation WY80AD	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	TC410-M2-C6-	M 2	0.4	45	6	11	2.8	2.1	5	3
	TC410-M2.5-C6-	M 2.5	0.45	50	8	13	2.8	2.1	5	3
	TC410-M3-C6-	M 3	0.5	56	9	18	3.5	2.7	6	4
	TC410-M3.5-C6-	M 3.5	0.6	56	11	20	4	3	6	4
	TC410-M4-C6-	M 4	0.7	63	12	21	4.5	3.4	6	5
	TC410-M5-C6-	M 5	0.8	70	13	25	6	4.9	8	5
	TC410-M6-C6-	M 6	1	80	15	30	6	4.9	8	5
	TC410-M7-C6-	M 7	1	80	15	30	7	5.5	8	5
	TC410-M8-C6-	M 8	1.25	90	18	35	8	6.2	9	5
	TC410-M10-C6-	M 10	1.5	100	20	39	10	8	11	6

Ordering example for the grade WY80AD: TC410-M10-C6-WY80AD

DIN 2174	Designation WY80AD	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l _g mm	N
	TC410-M12-L6-	M 12	1.75	110	23	83	9	7	10	6
	TC410-M14-L6-	M 14	2	110	25	81	11	9	12	6
	TC410-M16-L6-	M 16	2	110	25	68	12	9	12	6
	TC410-M18-L6-	M 18	2.5	125	30	81	14	11	14	7
	TC410-M20-L6-	M 20	2.5	140	30	95	16	12	15	7
	TC410-M24-L6-	M 24	3	160	36	113	18	14.5	17	8

Ordering example for the grade WY80AD: TC410-M12-L6-WY80AD

**WALTER
SELECT**

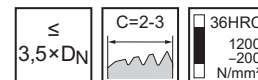
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine thread formers

TC410 Advance

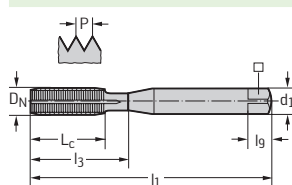


– For long-chipping materials



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●●	●	●●	●		

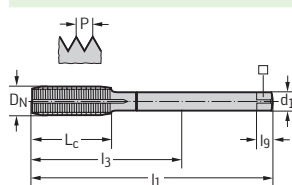
DIN 2174



Designation WY80AD	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
TC410-M2-E6-	M 2	0.4	45	6	11	2.8	2.1	5	3
TC410-M2.5-E6-	M 2.5	0.45	50	8	14	2.8	2.1	5	3
TC410-M3-E6-	M 3	0.5	56	9	18	3.5	2.7	6	4
TC410-M3.5-E6-	M 3.5	0.6	56	11	20	4	3	6	4
TC410-M4-E6-	M 4	0.7	63	12	21	4.5	3.4	6	5
TC410-M5-E6-	M 5	0.8	70	13	25	6	4.9	8	5
TC410-M6-E6-	M 6	1	80	15	30	6	4.9	8	5
TC410-M8-E6-	M 8	1.25	90	18	35	8	6.2	9	5
TC410-M10-E6-	M 10	1.5	100	20	39	10	8	11	6

Ordering example for the grade WY80AD: TC410-M10-E6-WY80AD

DIN 2174



Designation WY80AD	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
TC410-M12-N6-	M 12	1.75	110	23	83	9	7	10	6

Ordering example for the grade WY80AD: TC410-M12-N6-WY80AD

WALTER
SELECT

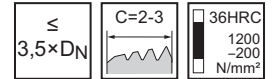
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine thread formers

TC410 Advance



– For long-chipping materials



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●●	●●	●●	●●	●●	●●

DIN 2174	Designation WY80AD	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	TC410-M2-F6-	M 2	0.4	45	6	11	2.8	2.1	5	3
	TC410-M2.5-F6-	M 2.5	0.45	50	8	14	2.8	2.1	5	3
	TC410-M3-F6-	M 3	0.5	56	9	18	3.5	2.7	6	4
	TC410-M4-F6-	M 4	0.7	63	12	21	4.5	3.4	6	5
	TC410-M5-F6-	M 5	0.8	70	13	25	6	4.9	8	5
	TC410-M6-F6-	M 6	1	80	15	30	6	4.9	8	5
	TC410-M8-F6-	M 8	1.25	90	18	35	8	6.2	9	5
	TC410-M10-F6-	M 10	1.5	100	20	39	10	8	11	6

Ordering example for the grade WY80AD: TC410-M10-F6-WY80AD

DIN 2174	Designation WY80AD	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	TC410-M12-P6-	M 12	1.75	110	23	83	9	7	10	6

Ordering example for the grade WY80AD: TC410-M12-P6-WY80AD

**WALTER
SELECT**

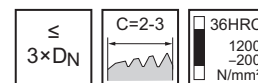
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E-PM machine thread formers

TC420 Supreme



– For long-chipping materials



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●	●	●●	●		
WW60BA (TiCN)	●●	●	●	●●	●		

DIN 2174	Designation WW60AD	Designation WW60BA	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	TC420-M2-C0-	TC420-M2-C0-	M 2	0.4	45	4	11	2.8	2.1	5	3
	TC420-M2.5-C0-	TC420-M2.5-C0-	M 2.5	0.45	50	4	14	2.8	2.1	5	3
	TC420-M3-C0-	TC420-M3-C0-	M 3	0.5	56	6	18	3.5	2.7	6	4
	TC420-M3.5-C0-	TC420-M3.5-C0-	M 3.5	0.6	56	7	20	4	3	6	4
	TC420-M4-C0-	TC420-M4-C0-	M 4	0.7	63	7	21	4.5	3.4	6	5
	TC420-M5-C0-	TC420-M5-C0-	M 5	0.8	70	8	25	6	4.9	8	5
	TC420-M6-C0-	TC420-M6-C0-	M 6	1	80	10	30	6	4.9	8	5
	TC420-M8-C0-	TC420-M8-C0-	M 8	1.25	90	12	35	8	6.2	9	5
	TC420-M10-C0-	TC420-M10-C0-	M 10	1.5	100	15	39	10	8	11	6

Ordering example for the grade WW60AD: TC420-M10-C0-WW60AD

DIN 2174	Designation WW60AD	Designation WW60BA	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	TC420-M12-L0-	TC420-M12-L0-	M 12	1.75	110	16	83	9	7	10	6
	TC420-M14-L0-	TC420-M14-L0-	M 14	2	110	20	81	11	9	12	6
	TC420-M16-L0-	TC420-M16-L0-	M 16	2	110	20	68	12	9	12	6
	TC420-M20-L0-		M 20	2.5	140	25	95	16	12	15	7

Ordering example for the grade WW60AD: TC420-M12-L0-WW60AD

WALTER
SELECT

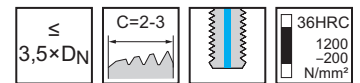
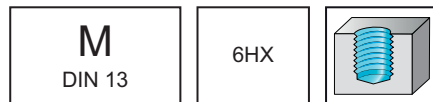
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E-PM machine thread formers

TC420 Supreme



– For long-chipping materials



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●●	●●	●●	●●	●●	●●
WW60BA (TiCN)	●●	●●	●●	●●	●●	●●	●●

DIN 2174	Designation WW60AD	Designation WW60BA	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	TC420-M5-C1-	TC420-M5-C1-	M 5	0.8	70	8	25	6	4.9	8	5
	TC420-M6-C1-	TC420-M6-C1-	M 6	1	80	10	30	6	4.9	8	5
	TC420-M8-C1-	TC420-M8-C1-	M 8	1.25	90	12	35	8	6.2	9	5
	TC420-M10-C1-	TC420-M10-C1-	M 10	1.5	100	15	39	10	8	11	6

Ordering example for the grade WW60AD: TC420-M10-C1-WW60AD

DIN 2174	Designation WW60AD	Designation WW60BA	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	TC420-M12-L1-	TC420-M12-L1-	M 12	1.75	110	16	83	9	7	10	6
	TC420-M14-L1-	TC420-M14-L1-	M 14	2	110	20	81	11	9	12	6
	TC420-M16-L1-	TC420-M16-L1-	M 16	2	110	20	68	12	9	12	6

Ordering example for the grade WW60AD: TC420-M12-L1-WW60AD

C2

**WALTER
SELECT**

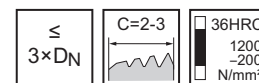
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E-PM machine thread formers

TC420 Supreme



– For long-chipping materials



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●	●	●●	●		
WW60BA (TiCN)	●●	●	●	●●	●		

DIN 2174	Designation WW60AD	Designation WW60BA	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC420-M2-E0-	TC420-M2-E0-	M 2	0.4	45	4	11	2.8	2.1	5	3
	TC420-M2.5-E0-	TC420-M2.5-E0-	M 2.5	0.45	50	4	14	2.8	2.1	5	3
	TC420-M3-E0-	TC420-M3-E0-	M 3	0.5	56	6	18	3.5	2.7	6	4
	TC420-M3.5-E0-		M 3.5	0.6	56	7	20	4	3	6	4
	TC420-M4-E0-	TC420-M4-E0-	M 4	0.7	63	7	21	4.5	3.4	6	5
	TC420-M5-E0-	TC420-M5-E0-	M 5	0.8	70	8	25	6	4.9	8	5
	TC420-M6-E0-	TC420-M6-E0-	M 6	1	80	10	30	6	4.9	8	5
	TC420-M8-E0-	TC420-M8-E0-	M 8	1.25	90	12	35	8	6.2	9	5
	TC420-M10-E0-	TC420-M10-E0-	M 10	1.5	100	15	39	10	8	11	6

Ordering example for the grade WW60AD: TC420-M10-E0-WW60AD

DIN 2174	Designation WW60AD	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC420-M12-N0-	M 12	1.75	110	16	83	9	7	10	6
	TC420-M14-N0-	M 14	2	110	20	81	11	9	12	6
	TC420-M16-N0-	M 16	2	110	20	68	12	9	12	6

Ordering example for the grade WW60AD: TC420-M12-N0-WW60AD

WALTER
SELECT

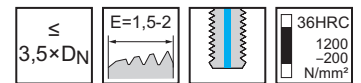
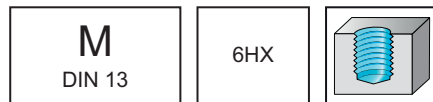
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E-PM machine thread formers

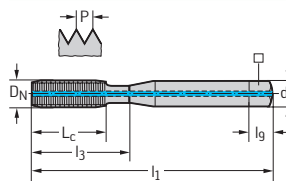
TC420 Supreme



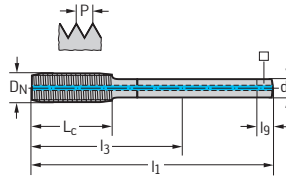
– For long-chipping materials



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●●	●●	●●	●●	●●	●●
WW60BA (TiCN)	●●	●●	●●	●●	●●	●●	●●

DIN 2174	Designation WW60AD	Designation WW60BA	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC420-M5-CF-	TC420-M5-CF-	M 5	0.8	70	8	25	6	4.9	8	5
	TC420-M6-CF-	TC420-M6-CF-	M 6	1	80	10	30	6	4.9	8	5
	TC420-M8-CF-	TC420-M8-CF-	M 8	1.25	90	12	35	8	6.2	9	5
	TC420-M10-CF-	TC420-M10-CF-	M 10	1.5	100	15	39	10	8	11	6

Ordering example for the grade WW60AD: TC420-M10-CF-WW60AD

DIN 2174	Designation WW60AD	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC420-M12-LF-	M 12	1.75	110	16	83	9	7	10	6
	TC420-M16-LF-	M 16	2	110	20	68	12	9	12	6

Ordering example for the grade WW60AD: TC420-M12-LF-WW60AD

C2

**WALTER
SELECT**

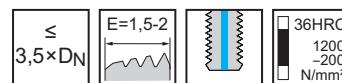
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E-PM machine thread formers

TC420 Supreme

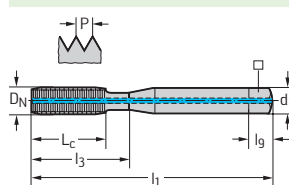


– For long-chipping materials



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●●	●●	●●	●●	●●	●●
WW60BA (TiCN)	●●	●●	●●	●●	●●	●●	●●

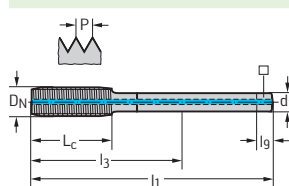
DIN 2174



Designation WW60AD	Designation WW60BA	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
TC420-M5-EF-	TC420-M5-EF-	M 5	0.8	70	8	25	6	4.9	8	5
TC420-M6-EF-	TC420-M6-EF-	M 6	1	80	10	30	6	4.9	8	5
TC420-M8-EF-	TC420-M8-EF-	M 8	1.25	90	12	35	8	6.2	9	5
TC420-M10-EF-	TC420-M10-EF-	M 10	1.5	100	15	39	10	8	11	6

Ordering example for the grade WW60AD: TC420-M10-EF-WW60AD

DIN 2174



Designation WW60AD	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
TC420-M12-NF-	M 12	1.75	110	16	83	9	7	10	6
TC420-M16-NF-	M 16	2	110	20	68	12	9	12	6

Ordering example for the grade WW60AD: TC420-M12-NF-WW60AD

**WALTER
SELECT**

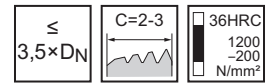
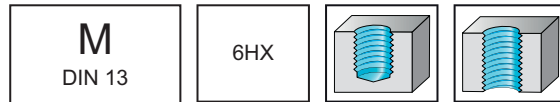
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E-PM machine thread formers

TC420 Supreme



– For long-chipping materials



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●●	●	●●	●		
WW60BA (TiCN)	●●	●●	●	●●	●		

DIN 2174	Designation WW60AD	Designation WW60BA	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC420-M2-C6-	TC420-M2-C6-	M 2	0.4	45	4	11	2.8	2.1	5	3
	TC420-M2.5-C6-	TC420-M2.5-C6-	M 2.5	0.45	50	4	14	2.8	2.1	5	3
	TC420-M3-C6-	TC420-M3-C6-	M 3	0.5	56	6	18	3.5	2.7	6	4
	TC420-M3.5-C6-	TC420-M3.5-C6-	M 3.5	0.6	56	7	20	4	3	6	4
	TC420-M4-C6-	TC420-M4-C6-	M 4	0.7	63	7	21	4.5	3.4	6	5
	TC420-M5-C6-	TC420-M5-C6-	M 5	0.8	70	8	25	6	4.9	8	5
	TC420-M6-C6-	TC420-M6-C6-	M 6	1	80	10	30	6	4.9	8	5
	TC420-M8-C6-	TC420-M8-C6-	M 8	1.25	90	12	35	8	6.2	9	5
	TC420-M10-C6-	TC420-M10-C6-	M 10	1.5	100	15	39	10	8	11	6

Ordering example for the grade WW60AD: TC420-M10-C6-WW60AD

DIN 2174	Designation WW60AD	Designation WW60BA	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC420-M12-L6-	TC420-M12-L6-	M 12	1.75	110	16	83	9	7	10	6
	TC420-M14-L6-	TC420-M14-L6-	M 14	2	110	20	81	11	9	12	6
	TC420-M16-L6-	TC420-M16-L6-	M 16	2	110	20	68	12	9	12	6
	TC420-M20-L6-	TC420-M20-L6-	M 20	2.5	140	25	95	16	12	15	7

Ordering example for the grade WW60AD: TC420-M12-L6-WW60AD

C2

**WALTER
SELECT**

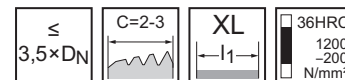
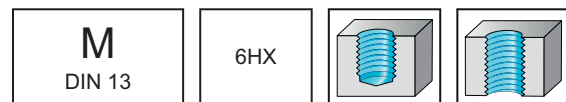
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E-PM machine thread formers

TC420 Supreme



– For long-chipping materials



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●●	●●	●●	●		

~DIN 371 XL	Designation WW60AD	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC420-M3-CH-	M 3	0.5	125	6	18	3.5	2.7	6	4
	TC420-M4-CH-	M 4	0.7	125	7	21	4.5	3.4	6	5
	TC420-M5-CH-	M 5	0.8	140	8	25	6	4.9	8	5
	TC420-M6-CH-	M 6	1	160	10	30	6	4.9	8	5

Ordering example for the grade WW60AD: TC420-M3-CH-WW60AD

~DIN 376 XL	Designation WW60AD	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC420-M8-LH-	M 8	1.25	180	13	157	6	4.9	8	5
	TC420-M10-LH-	M 10	1.5	200	15	177	7	5.5	8	6
	TC420-M12-LH-	M 12	1.75	220	16	193	9	7	10	6
	TC420-M16-LH-	M 16	2	220	20	178	12	9	12	6

Ordering example for the grade WW60AD: TC420-M10-LH-WW60AD

**WALTER
SELECT**

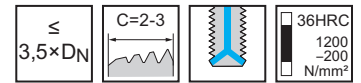
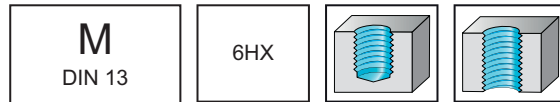
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E-PM machine thread formers

TC420 Supreme



– For long-chipping materials



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●●	●●	●●	●		
WW60BA (TiCN)	●●	●●	●●	●●	●		

DIN 2174	Designation WW60AD	Designation WW60BA	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC420-M5-C2-	TC420-M5-C2-	M 5	0.8	70	8	25	6	4.9	8	5
	TC420-M6-C2-	TC420-M6-C2-	M 6	1	80	10	30	6	4.9	8	5
	TC420-M8-C2-	TC420-M8-C2-	M 8	1.25	90	12	35	8	6.2	9	5
	TC420-M10-C2-	TC420-M10-C2-	M 10	1.5	100	15	39	10	8	11	6

Ordering example for the grade WW60AD: TC420-M10-C2-WW60AD

DIN 2174	Designation WW60AD	Designation WW60BA	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC420-M12-L2-	TC420-M12-L2-	M 12	1.75	110	16	83	9	7	10	6
	TC420-M14-L2-	TC420-M14-L2-	M 14	2	110	20	81	11	9	12	6
	TC420-M16-L2-	TC420-M16-L2-	M 16	2	110	20	68	12	9	12	6
	TC420-M20-L2-	TC420-M20-L2-	M 20	2.5	140	25	95	16	12	15	7
	TC420-M24-L2-	TC420-M24-L2-	M 24	3	160	30	113	18	14.5	17	8

Ordering example for the grade WW60AD: TC420-M12-L2-WW60AD

C2

**WALTER
SELECT**

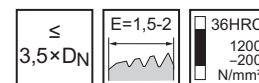
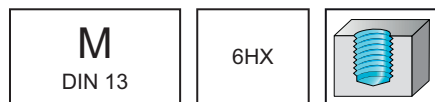
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E-PM machine thread formers

TC420 Supreme



– For long-chipping materials



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●●	●	●●	●		
WW60BA (TiCN)	●●	●●	●	●●	●		

DIN 2174	Designation WW60AD	Designation WW60BA	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	TC420-M2-CE-	TC420-M2-CE-	M 2	0.4	45	4	11	2.8	2.1	5	3
	TC420-M2.5-CE-	TC420-M2.5-CE-	M 2.5	0.45	50	4	14	2.8	2.1	5	3
	TC420-M3-CE-	TC420-M3-CE-	M 3	0.5	56	6	18	3.5	2.7	6	4
	TC420-M3.5-CE-		M 3.5	0.6	56	7	20	4	3	6	4
	TC420-M4-CE-	TC420-M4-CE-	M 4	0.7	63	7	21	4.5	3.4	6	5
	TC420-M5-CE-	TC420-M5-CE-	M 5	0.8	70	8	25	6	4.9	8	5
	TC420-M6-CE-	TC420-M6-CE-	M 6	1	80	10	30	6	4.9	8	5
	TC420-M8-CE-	TC420-M8-CE-	M 8	1.25	90	12	35	8	6.2	9	5
	TC420-M10-CE-	TC420-M10-CE-	M 10	1.5	100	15	39	10	8	11	6

Ordering example for the grade WW60AD: TC420-M10-CE-WW60AD

DIN 2174	Designation WW60AD	Designation WW60BA	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	TC420-M12-LE-	TC420-M12-LE-	M 12	1.75	110	16	83	9	7	10	6
	TC420-M14-LE-		M 14	2	110	20	81	11	9	12	6
	TC420-M16-LE-	TC420-M16-LE-	M 16	2	110	20	68	12	9	12	6

Ordering example for the grade WW60AD: TC420-M12-LE-WW60AD

**WALTER
SELECT**

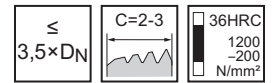
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E-PM machine thread formers

TC420 Supreme



– For long-chipping materials



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●●	●	●●	●		
WW60BA (TiCN)	●●	●●	●	●●	●		

DIN 2174	Designation WW60AD	Designation WW60BA	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	TC420-M2-E6-	TC420-M2-E6-	M 2	0.4	45	4	11	2.8	2.1	5	3
	TC420-M2.5-E6-	TC420-M2.5-E6-	M 2.5	0.45	50	4	14	2.8	2.1	5	3
	TC420-M3-E6-	TC420-M3-E6-	M 3	0.5	56	6	18	3.5	2.7	6	4
	TC420-M3.5-E6-	TC420-M3.5-E6-	M 3.5	0.6	56	7	20	4	3	6	4
	TC420-M4-E6-	TC420-M4-E6-	M 4	0.7	63	7	21	4.5	3.4	6	5
	TC420-M5-E6-	TC420-M5-E6-	M 5	0.8	70	8	25	6	4.9	8	5
	TC420-M6-E6-	TC420-M6-E6-	M 6	1	80	10	30	6	4.9	8	5
	TC420-M8-E6-	TC420-M8-E6-	M 8	1.25	90	12	35	8	6.2	9	5
	TC420-M10-E6-	TC420-M10-E6-	M 10	1.5	100	15	39	10	8	11	6

Ordering example for the grade WW60AD: TC420-M10-E6-WW60AD

DIN 2174	Designation WW60AD	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	TC420-M12-N6-	M 12	1.75	110	16	83	9	7	10	6
	TC420-M14-N6-	M 14	2	110	20	81	11	9	12	6
	TC420-M16-N6-	M 16	2	110	20	68	12	9	12	6

Ordering example for the grade WW60AD: TC420-M12-N6-WW60AD

C2

**WALTER
SELECT**

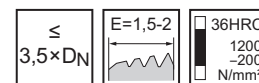
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E-PM machine thread formers

TC420 Supreme



– For long-chipping materials



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●●	●	●●	●		
WW60BA (TiCN)	●●	●●	●	●●	●		

DIN 2174	Designation WW60AD	Designation WW60BA	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC420-M2-EE-	TC420-M2-EE-	M 2	0.4	45	4	11	2.8	2.1	5	3
	TC420-M2.5-EE-	TC420-M2.5-EE-	M 2.5	0.45	50	4	14	2.8	2.1	5	3
	TC420-M3-EE-	TC420-M3-EE-	M 3	0.5	56	6	18	3.5	2.7	6	4
	TC420-M4-EE-	TC420-M4-EE-	M 4	0.7	63	7	21	4.5	3.4	6	5
	TC420-M5-EE-	TC420-M5-EE-	M 5	0.8	70	8	25	6	4.9	8	5
	TC420-M6-EE-	TC420-M6-EE-	M 6	1	80	10	30	6	4.9	8	5
	TC420-M8-EE-	TC420-M8-EE-	M 8	1.25	90	12	35	8	6.2	9	5
	TC420-M10-EE-	TC420-M10-EE-	M 10	1.5	100	15	39	10	8	11	6

Ordering example for the grade WW60AD: TC420-M10-EE-WW60AD

DIN 2174	Designation WW60AD	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC420-M12-NE-	M 12	1.75	110	16	83	9	7	10	6
	TC420-M14-NE-	M 14	2	110	20	81	11	9	12	6
	TC420-M16-NE-	M 16	2	110	20	68	12	9	12	6

Ordering example for the grade WW60AD: TC420-M12-NE-WW60AD

WALTER
SELECT

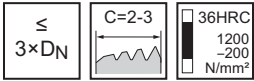
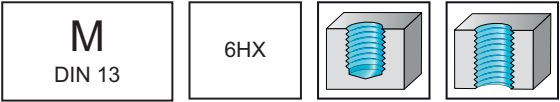
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E-PM machine thread formers

TC430 Supreme

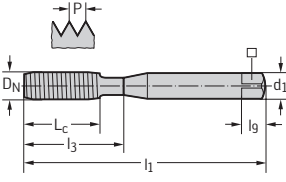


- For long-chipping materials
- ISO M only with oil



	P	M	K	N	S	H	O
WW60EL (AlCrN)	●●	●	●	●			

DIN 2174

	Designation WW60EL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
	TC430-M3-C0-	M 3	0.5	56	6	18	3.5	2.7	6	4
	TC430-M4-C0-	M 4	0.7	63	7	21	4.5	3.4	6	5
	TC430-M5-C0-	M 5	0.8	70	8	25	6	4.9	8	5
	TC430-M6-C0-	M 6	1	80	10	30	6	4.9	8	5
	TC430-M8-C0-	M 8	1.25	90	12	35	8	6.2	9	6
	TC430-M10-C0-	M 10	1.5	100	15	39	10	8	11	7

Ordering example for the grade WW60EL: TC430-M10-C0-WW60EL

**WALTER
SELECT**

●● Primary application ● Other application

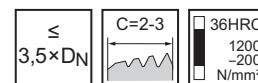
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E-PM machine thread formers

TC430 Supreme



- For long-chipping materials
- ISO M only with oil



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●	●	●	●	●	●
WW60EL (AlCrN)	●●	●	●	●	●	●	●

DIN 2174	Designation WW60AD	Designation WW60EL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
		TC430-M3-C6-	M 3	0.5	56	6	18	3.5	2.7	6	4
		TC430-M4-C6-	M 4	0.7	63	7	21	4.5	3.4	6	5
		TC430-M5-C6-	M 5	0.8	70	8	25	6	4.9	8	5
		TC430-M6-C6-	M 6	1	80	10	30	6	4.9	8	5
	TC430-M8-C6-	TC430-M8-C6-	M 8	1.25	90	12	35	8	6.2	9	6
	TC430-M10-C6-	TC430-M10-C6-	M 10	1.5	100	15	39	10	8	11	7

Ordering example for the grade WW60AD: TC430-M10-C6-WW60AD

DIN 2174	Designation WW60AD	Designation WW60EL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	TC430-M12-L6-	TC430-M12-L6-	M 12	1.75	110	16	83	9	7	10	8
	TC430-M16-L6-		M 16	2	110	20	68	12	9	12	8

Ordering example for the grade WW60AD: TC430-M12-L6-WW60AD

WALTER
SELECT

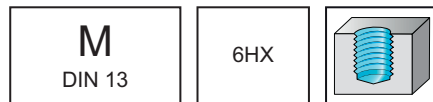
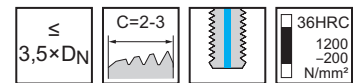
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E-PM machine thread formers

TC430 Supreme



- For long-chipping materials
- ISO M only with oil



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●	●	●	●	●	●
WW60EL (AlCrN)	●●	●	●	●	●	●	●

DIN 2174	Designation WW60AD	Designation WW60EL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
		TC430-M5-C1-	M 5	0.8	70	8	25	6	4.9	8	5
		TC430-M6-C1-	M 6	1	80	10	30	6	4.9	8	5
	TC430-M8-C1-	TC430-M8-C1-	M 8	1.25	90	12	35	8	6.2	9	6
	TC430-M10-C1-	TC430-M10-C1-	M 10	1.5	100	15	39	10	8	11	7

Ordering example for the grade WW60AD: TC430-M10-C1-WW60AD

DIN 2174	Designation WW60AD	Designation WW60EL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm		l ₉ mm	N
	TC430-M12-L1-	TC430-M12-L1-	M 12	1.75	110	16	83	9	7	10	8
	TC430-M16-L1-	TC430-M16-L1-	M 16	2	110	20	68	12	9	12	8

Ordering example for the grade WW60AD: TC430-M12-L1-WW60AD

C2

**WALTER
SELECT**

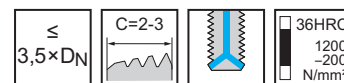
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E-PM machine thread formers

TC430 Supreme

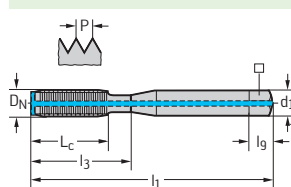


- For long-chipping materials
- ISO M only with oil



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●	●	●	●	●	●
WW60EL (AlCrN)	●●	●	●	●	●	●	●

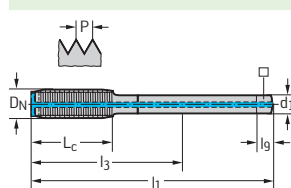
DIN 2174



Designation WW60AD	Designation WW60EL	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
	TC430-M5-C2-	M 5	0.8	70	8	25	6	4.9	8	5
	TC430-M6-C2-	M 6	1	80	10	30	6	4.9	8	5
TC430-M8-C2-	TC430-M8-C2-	M 8	1.25	90	12	35	8	6.2	9	6
TC430-M10-C2-	TC430-M10-C2-	M 10	1.5	100	15	39	10	8	11	7

Ordering example for the grade WW60AD: TC430-M10-C2-WW60AD

DIN 2174



Designation WW60AD	Designation WW60EL	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l ₉ mm	N
TC430-M12-L2-	TC430-M12-L2-	M 12	1.75	110	16	83	9	7	10	8
TC430-M16-L2-	TC430-M16-L2-	M 16	2	110	20	68	12	9	12	8

Ordering example for the grade WW60AD: TC430-M12-L2-WW60AD

WALTER
SELECT

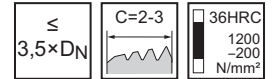
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E-PM machine thread formers

TC430 Supreme



- For long-chipping materials
- ISO M only with oil



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●	●	●	●	●	●

DIN 2174	Designation WW60AD	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC430-M8-E6-	M 8	1.25	90	12	35	8	6.2	9	6
	TC430-M10-E6-	M 10	1.5	100	15	39	10	8	11	7

Ordering example for the grade WW60AD: TC430-M10-E6-WW60AD

DIN 2174	Designation WW60AD	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC430-M12-N6-	M 12	1.75	110	16	83	9	7	10	8
	TC430-M16-N6-	M 16	2	110	20	68	12	9	12	8

Ordering example for the grade WW60AD: TC430-M12-N6-WW60AD

C2

**WALTER
SELECT**

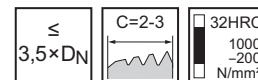
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine thread formers

TC440 Supreme



- For long-chipping materials
- For stainless steels when using emulsion



	P	M	K	N	S	H	O
WY80AD (TiN)	●	●●	●	●	●	●	●

DIN 2174	Designation WY80AD	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC440-M2-C6-	M 2	0.4	45	6	6	2.8	2.1	5	3
	TC440-M2.5-C6-	M 2.5	0.45	50	8	8	2.8	2.1	5	3
	TC440-M3-C6-	M 3	0.5	56	6	18	3.5	2.7	6	3
	TC440-M4-C6-	M 4	0.7	63	7	21	4.5	3.4	6	3
	TC440-M5-C6-	M 5	0.8	70	8	25	6	4.9	8	4
	TC440-M6-C6-	M 6	1	80	10	30	6	4.9	8	5
	TC440-M8-C6-	M 8	1.25	90	12	35	8	6.2	9	5
	TC440-M10-C6-	M 10	1.5	100	15	39	10	8	11	5

Ordering example for the grade WY80AD: TC440-M12-L6-WY80AD

DIN 2174	Designation WY80AD	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC440-M12-L6-	M 12	1.75	110	16	83	9	7	10	5

Bestellbeispiel für die Sorte WY80AD: TC440-M12-L6-WY80AD

WALTER
SELECT

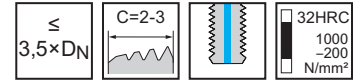
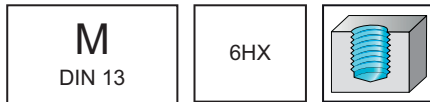
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine thread formers

TC440 Supreme



- For long-chipping materials
- For stainless steels when using emulsion



	P	M	K	N	S	H	O
WY80AD (TiN)	●	●●	●	●	●	●	●

DIN 2174	Designation WY80AD	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC440-M5-C1-	M 5	0.8	70	8	25	6	4.9	8	4
	TC440-M6-C1-	M 6	1	80	10	30	6	4.9	8	5
	TC440-M8-C1-	M 8	1.25	90	12	35	8	6.2	9	5
	TC440-M10-C1-	M 10	1.5	100	15	39	10	8	11	5

Ordering example for the grade WY80AD: TC440-M10-C1-WY80AD

DIN 2174	Designation WY80AD	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC440-M12-L1-	M 12	1.75	110	16	83	9	7	10	5

Ordering example for the grade WY80AD: TC440-M12-L1-WY80AD

C2

**WALTER
SELECT**

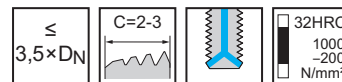
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine thread formers

TC440 Supreme



- For long-chipping materials
- For stainless steels when using emulsion



	P	M	K	N	S	H	O
WY80AD (TiN)	●	●●	●	●	●	●	●

DIN 2174	Designation WY80AD	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC440-M5-C2-	M 5	0.8	70	8	25	6	4.9	8	4
	TC440-M6-C2-	M 6	1	80	10	30	6	4.9	8	5
	TC440-M8-C2-	M 8	1.25	90	12	35	8	6.2	9	5
	TC440-M10-C2-	M 10	1.5	100	15	39	10	8	11	5

Ordering example for the grade WY80AD: TC440-M10-C2-WY80AD

DIN 2174	Designation WY80AD	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□	l _g mm	N
	TC440-M12-L2-	M 12	1.75	110	16	83	9	7	10	5

Ordering example for the grade WY80AD: TC440-M12-L2-WY80AD

WALTER
SELECT

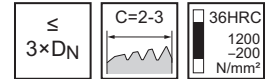
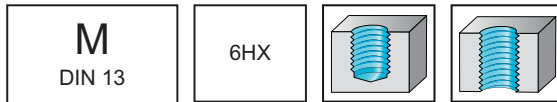
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide machine thread formers

TC470 Supreme



– For long-chipping materials



	P	M	K	N	S	H	O
WG20EL (AlCrN)	●●		●	●			

DIN 2174	Designation WG20EL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□	l ₉ mm	N
	TC470-M3-C0-	M 3	0.5	56	10	10	3.5	2.7	6	4
	TC470-M4-C0-	M 4	0.7	63	13	13	4.5	3.4	6	5
	TC470-M5-C0-	M 5	0.8	70	16	16	6	4.9	8	5
	TC470-M6-C0-	M 6	1	80	10	30	6	4.9	8	5
	TC470-M8-C0-	M 8	1.25	90	12	35	8	6.2	9	6
	TC470-M10-C0-	M 10	1.5	100	15	39	10	8	11	7

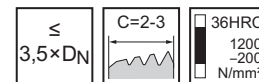
Ordering example for the grade WG20EL: TC470-M10-C0-WG20EL

Solid carbide machine thread formers

TC470 Supreme



– For long-chipping materials



	P	M	K	N	S	H	O
WG20EL (AlCrN)	●●		●	●			

DIN 2174	Designation WG20EL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□	l _g mm	N
	TC470-M4-C6-	M 4	0.7	63	13	13	4.5	3.4	6	5
	TC470-M5-C6-	M 5	0.8	70	16	16	6	4.9	8	5
	TC470-M6-C6-	M 6	1	80	10	30	6	4.9	8	5
	TC470-M8-C6-	M 8	1.25	90	12	35	8	6.2	9	6
	TC470-M10-C6-	M 10	1.5	100	15	39	10	8	11	7

Ordering example for the grade WG20EL: TC470-M10-C6-WG20EL

C2

WALTER
SELECT

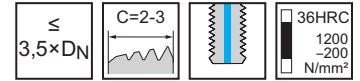
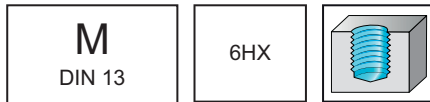
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide machine thread formers

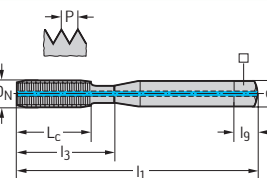
TC470 Supreme



– For long-chipping materials



	P	M	K	N	S	H	O
WG20EL (AlCrN)	●●		●	●			

DIN 2174										
	Designation WG20EL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm		l _g mm	N
	TC470-M5-C5-	M 5	0.8	70	16	16	6	4.9	8	5
	TC470-M6-C5-	M 6	1	80	10	30	6	4.9	8	5
	TC470-M8-C5-	M 8	1.25	90	12	35	8	6.2	9	6
	TC470-M10-C5-	M 10	1.5	100	15	39	10	8	11	7

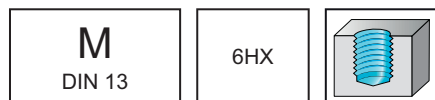
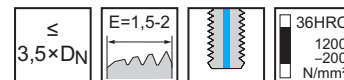
Ordering example for the grade WG20EL: TC470-M10-C5-WG20EL

Solid carbide machine thread formers

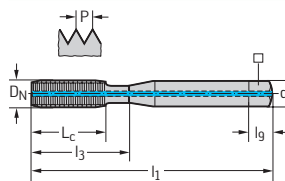
TC470 Supreme



– For long-chipping materials



	P	M	K	N	S	H	O
WG20EL (AlCrN)	●●		●	●			

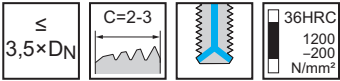
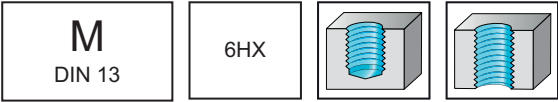
DIN 2174	Designation WG20EL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□	l _g mm	N
	TC470-M5-CE-	M 5	0.8	70	16	16	6	4.9	8	5
	TC470-M6-CE-	M 6	1	80	10	30	6	4.9	8	5
	TC470-M8-CE-	M 8	1.25	90	12	35	8	6.2	9	6
	TC470-M10-CE-	M 10	1.5	100	15	39	10	8	11	7

Ordering example for the grade WG20EL: TC470-M10-CE-WG20EL

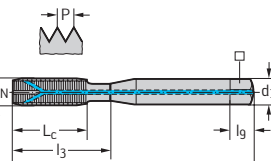
Solid carbide machine thread formers
TC470 Supreme



– For long-chipping materials



	P	M	K	N	S	H	O
WG20EL (AlCrN)	●●		●	●			

DIN 2174		Designation WG20EL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm		l ₉ mm	N
	TC470-M6-C2-	M 6	1	80	10	30	6	4.9	8	5	
	TC470-M8-C2-	M 8	1.25	90	12	35	8	6.2	9	6	
	TC470-M10-C2-	M 10	1.5	100	15	39	10	8	11	7	

Ordering example for the grade WG20EL: TC470-M10-C2-WG20EL

WALTER
SELECT

●● Primary application ● Other application

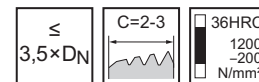
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine thread formers

TC410 Advance



– For long-chipping materials



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●●	●	●●	●		

DIN 2174

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	h ₉	□	l ₉ mm	N	WY80AD
TC410-M4X0.5-C6-	MF 4x0.5	0.5	63	12	21	4.5	3.4	6	5	☹
TC410-M5X0.5-C6-	MF 5x0.5	0.5	70	13	25	6	4.9	8	5	☹
TC410-M6X0.5-C6-	MF 6x0.5	0.5	80	15	30	6	4.9	8	5	☹
TC410-M6X0.75-C6-	MF 6x0.75	0.75	80	15	30	6	4.9	8	5	☹
TC410-M7X0.75-C6-	MF 7x0.75	0.75	80	15	30	7	5.5	8	5	☹

Ordering example for the grade WY80AD: TC410-M4X0.5-C6-WY80AD

C2

**WALTER
SELECT**

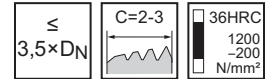
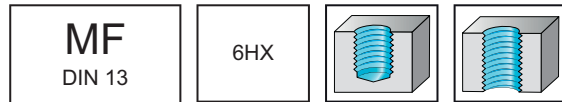
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

HSS-E machine thread formers

TC410 Advance

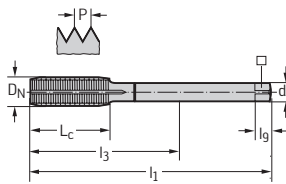


– For long-chipping materials



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●●	●●	●●	●		

DIN 2174



Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	h ₉	□	l ₉ mm	N	WY80AD
TC410-M8X0.5-L6-	MF 8x0.5	0.5	80	15	57	6	4.9	8	5	☼
TC410-M8X0.75-L6-	MF 8x0.75	0.75	80	15	57	6	4.9	8	5	☼
TC410-M8X1-L6-	MF 8x1	1	90	18	67	6	4.9	8	5	☼
TC410-M10X1-L6-	MF 10x1	1	90	20	67	7	5.5	8	6	☼
TC410-M10X1.25-L6-	MF 10x1.25	1.25	100	20	77	7	5.5	8	6	☼
TC410-M12X1-L6-	MF 12x1	1	100	21	73	9	7	10	6	☼
TC410-M12X1.25-L6-	MF 12x1.25	1.25	100	21	73	9	7	10	6	☼
TC410-M12X1.5-L6-	MF 12x1.5	1.5	100	21	73	9	7	10	6	☼
TC410-M14X1.5-L6-	MF 14x1.5	1.5	100	21	71	11	9	12	6	☼
TC410-M16X1.5-L6-	MF 16x1.5	1.5	100	21	58	12	9	12	6	☼
TC410-M18X1.5-L6-	MF 18x1.5	1.5	110	24	66	14	11	14	7	☼
TC410-M20X1.5-L6-	MF 20x1.5	1.5	125	24	80	16	12	15	7	☼
TC410-M20X2-L6-	MF 20x2	2	140	30	95	16	12	15	7	☼
TC410-M22X1.5-L6-	MF 22x1.5	1.5	125	24	78	18	14.5	17	7	☼
TC410-M24X1.5-L6-	MF 24x1.5	1.5	140	26	93	18	14.5	17	8	☼
TC410-M24X2-L6-	MF 24x2	2	140	26	93	18	14.5	17	8	☼
TC410-M27X1.5-L6-	MF 27x1.5	1.5	140	26	77	20	16	19	8	☼
TC410-M27X2-L6-	MF 27x2	2	140	26	77	20	16	19	8	☼
TC410-M30X1.5-L6-	MF 30x1.5	1.5	150	26	85	22	18	21	8	☼
TC410-M30X2-L6-	MF 30x2	2	150	26	85	22	18	21	8	☼

Ordering example for the grade WY80AD: TC410-M10X1-L6-WY80AD

**WALTER
SELECT**

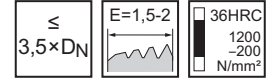
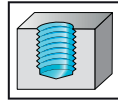
●● Primary application ● Other application
Best tool for → Good = ☺ → Average = ☹ → Poor = ☼ machining conditions

HSS-E machine thread formers

TC410 Advance



– For long-chipping materials



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●	●	●●	●		

DIN 2174

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	h ₉	□	l ₉ mm	N	WY80AD
TC410-M10X1-NE-	MF 10x1	1	90	20	67	7	5.5	8	6	☹
TC410-M12X1.5-NE-	MF 12x1.5	1.5	100	21	73	9	7	10	6	☹
TC410-M14X1.5-NE-	MF 14x1.5	1.5	100	21	71	11	9	12	7	☹
TC410-M16X1.5-NE-	MF 16x1.5	1.5	100	21	58	12	9	12	7	☹

Ordering example for the grade WY80AD: TC410-M10X1-NE-WY80AD

C2

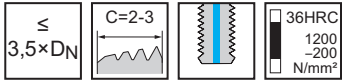
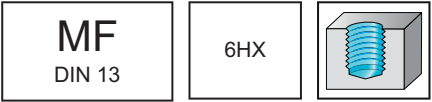
WALTER
SELECT

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

HSS-E-PM machine thread formers
TC420 Supreme



– For long-chipping materials



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●●	●	●●	●		

DIN 2174											WW60AD
	Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	h ₉	□	l ₉ mm	N	
	TC420-M8X1-L1-	MF 8x1	1	90	12	67	6	4.9	8	5	☹
	TC420-M10X1-L1-	MF 10x1	1	90	12	67	7	5.5	8	6	☹
	TC420-M12X1.5-L1-	MF 12x1.5	1.5	100	13	73	9	7	10	6	☹
	TC420-M14X1.5-L1-	MF 14x1.5	1.5	100	15	71	11	9	12	6	☹

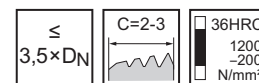
Ordering example for the grade WW60AD: TC420-M10X1-L1-WW60AD

HSS-E-PM machine thread formers

TC420 Supreme

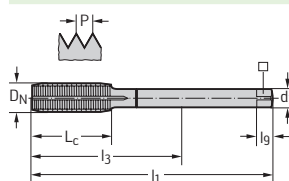


– For long-chipping materials



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●●	●	●●	●		
WW60BA (TiCN)	●●	●●	●	●●	●		

DIN 2174



Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	h9	□	l ₉ mm	N	WW60AD	WW60BA
TC420-M8X1-L6-	MF 8x1	1	90	12	67	6	4.9	8	5	●●	●●
TC420-M10X1-L6-	MF 10x1	1	90	12	67	7	5.5	8	6	●●	●●
TC420-M12X1-L6-	MF 12x1	1	100	13	73	9	7	10	6	●●	●●
TC420-M12X1.5-L6-	MF 12x1.5	1.5	100	13	73	9	7	10	6	●●	●●
TC420-M14X1-L6-	MF 14x1	1	100	15	71	11	9	12	6	●●	●●
TC420-M14X1.25-L6-	MF 14x1.25	1.25	100	15	71	11	9	12	6	●●	
TC420-M14X1.5-L6-	MF 14x1.5	1.5	100	15	71	11	9	12	6	●●	●●
TC420-M16X1.5-L6-	MF 16x1.5	1.5	100	15	58	12	9	12	6	●●	●●

Ordering example for the grade WW60AD: TC420-M10X1-L6-WW60AD

C2

WALTER
SELECT

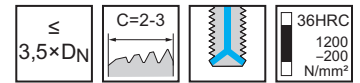
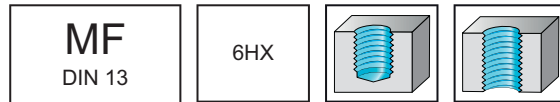
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E-PM machine thread formers

TC420 Supreme

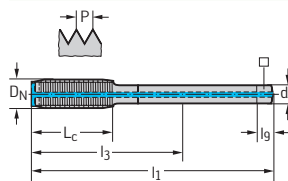


– For long-chipping materials



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●●	●●	●●	●		
WW60BA (TiCN)	●●	●●	●●	●●	●		

DIN 2174



Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	h ₉	□	l _g mm	N	WW60AD	WW60BA
TC420-M8X1-L2-	MF 8x1	1	90	12	67	6	4.9	8	5	●●	●●
TC420-M10X1-L2-	MF 10x1	1	90	12	67	7	5.5	8	6	●●	●●
TC420-M12X1-L2-	MF 12x1	1	100	13	73	9	7	10	6	●●	●●
TC420-M12X1.5-L2-	MF 12x1.5	1.5	100	13	73	9	7	10	6	●●	●●
TC420-M14X1.5-L2-	MF 14x1.5	1.5	100	15	71	11	9	12	6	●●	●●
TC420-M16X1.5-L2-	MF 16x1.5	1.5	100	15	58	12	9	12	6	●●	●●

Ordering example for the grade WW60AD: TC420-M10X1-L2-WW60AD

C2

**WALTER
SELECT**

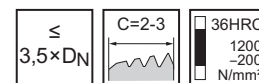
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E-PM machine thread formers

TC420 Supreme

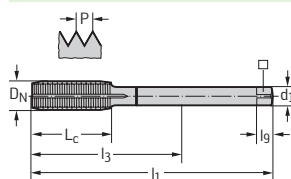


– For long-chipping materials



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●●	●	●●	●		
WW60BA (TiCN)	●●	●●	●	●●	●		

DIN 2174



Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	h ₉	□	l ₉ mm	N	WW60AD	WW60BA
TC420-M8X1-N6-	MF 8x1	1	90	12	67	6	4.9	8	5	●●	●●
TC420-M10X1-N6-	MF 10x1	1	90	12	67	7	5.5	8	6	●●	●●
TC420-M12X1-N6-	MF 12x1	1	100	13	73	9	7	10	6	●●	●●
TC420-M12X1.5-N6-	MF 12x1.5	1.5	100	13	73	9	7	10	6	●●	
TC420-M14X1.5-N6-	MF 14x1.5	1.5	100	15	71	11	9	12	6	●●	●●
TC420-M16X1.5-N6-	MF 16x1.5	1.5	100	15	58	12	9	12	6	●●	●●

Ordering example for the grade WW60AD: TC420-M10X1-N6-WW60AD

C2

**WALTER
SELECT**

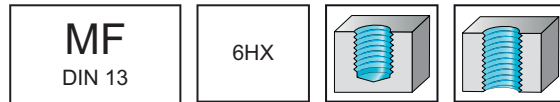
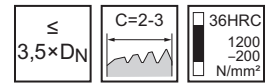
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E-PM machine thread formers

TC430 Supreme



- For long-chipping materials
- ISO M only with oil



	P	M	K	N	S	H	O
WW60EL (AlCrN)	●●	●	●	●	●	●	●
WW60AD (TiN)	●●	●	●	●	●	●	●

DIN 2174

	Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	h ₉	□	l _g mm	N	WW60EL	WW60AD
	TC430-M8X1-L6-	MF 8x1	1	90	12	67	6	4.9	8	6	●●	●●
	TC430-M10X1-L6-	MF 10x1	1	90	12	67	7	5.5	8	7	●●	●●
	TC430-M10X1.25-L6-	MF 10x1.25	1.25	100	15	77	7	5.5	8	7	●●	●●
	TC430-M12X1.25-L6-	MF 12x1.25	1.25	100	13	73	9	7	10	8	●●	●●
	TC430-M12X1.5-L6-	MF 12x1.5	1.5	100	13	73	9	7	10	8	●●	●●
	TC430-M14X1.5-L6-	MF 14x1.5	1.5	100	15	71	11	9	12	8	●●	●●
	TC430-M16X1.5-L6-	MF 16x1.5	1.5	100	15	58	12	9	12	8	●●	●●

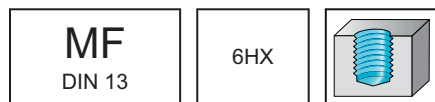
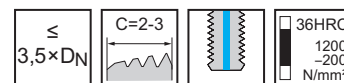
Ordering example for the grade WW60EL: TC430-M10X1-L6-WW60EL

HSS-E-PM machine thread formers

TC430 Supreme

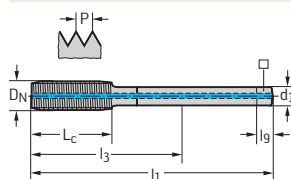


- For long-chipping materials
- ISO M only with oil



	P	M	K	N	S	H	O
WW60EL (AlCrN)	●●	●	●	●	●	●	●
WW60AD (TiN)	●●	●	●	●	●	●	●

DIN 2174



Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	h ₉	□	l _g mm	N	WW60EL	WW60AD
TC430-M8X1-L1-	MF 8x1	1	90	12	67	6	4.9	8	6	●●	●
TC430-M10X1-L1-	MF 10x1	1	90	12	67	7	5.5	8	7	●●	●
TC430-M10X1.25-L1-	MF 10x1.25	1.25	100	15	77	7	5.5	8	7	●●	●●
TC430-M12X1-L1-	MF 12x1	1	100	13	73	9	7	10	8	●●	●
TC430-M12X1.25-L1-	MF 12x1.25	1.25	100	13	73	9	7	10	8	●●	●●
TC430-M12X1.5-L1-	MF 12x1.5	1.5	100	13	73	9	7	10	8	●●	●●
TC430-M14X1.5-L1-	MF 14x1.5	1.5	100	15	71	11	9	12	8	●●	●●
TC430-M16X1.5-L1-	MF 16x1.5	1.5	100	15	58	12	9	12	8	●●	●●

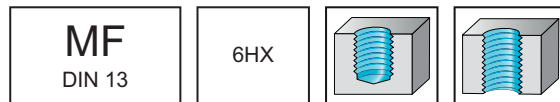
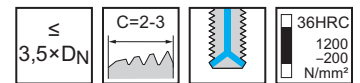
Ordering example for the grade WW60EL: TC430-M10X1-L1-WW60EL

HSS-E-PM machine thread formers

TC430 Supreme

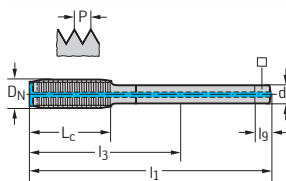


- For long-chipping materials
- ISO M only with oil



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●	●	●	●	●	●
WW60EL (AlCrN)	●●	●	●	●	●	●	●

DIN 2174



Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	h ₉	□	l ₉ mm	N	WW60AD	WW60EL
TC430-M8X1-L2-	MF 8x1	1	90	12	67	6	4.9	8	6	●●	●●
TC430-M10X1-L2-	MF 10x1	1	90	12	67	7	5.5	8	7	●●	●●
TC430-M10X1.25-L2-	MF 10x1.25	1.25	100	15	77	7	5.5	8	7	●●	●●
TC430-M12X1-L2-	MF 12x1	1	100	13	73	9	7	10	8	●●	●●
TC430-M12X1.25-L2-	MF 12x1.25	1.25	100	13	73	9	7	10	8	●●	●●
TC430-M12X1.5-L2-	MF 12x1.5	1.5	100	13	73	9	7	10	8	●●	●●
TC430-M14X1.5-L2-	MF 14x1.5	1.5	100	15	71	11	9	12	8	●●	●●
TC430-M16X1.5-L2-	MF 16x1.5	1.5	100	15	58	12	9	12	8	●●	●●

Ordering example for the grade WW60AD: TC430-M10X1-L2-WW60AD

C2

**WALTER
SELECT**

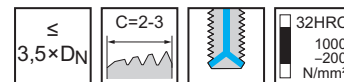
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine thread formers

TC440 Supreme



- For long-chipping materials
- For stainless steels when using emulsion



	P	M	K	N	S	H	O
WY80AD (TiN)	●	●●	●	●	●	●	●

DIN 2174

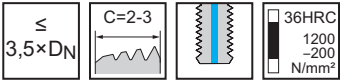
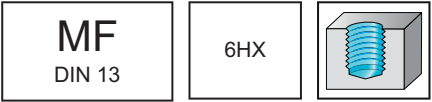
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	h ₉	□	l ₉ mm	N	WY80AD
TC440-M8X1-L2-	MF 8x1	1	90	12	67	6	4.9	8	5	●●
TC440-M10X1-L2-	MF 10x1	1	90	12	67	7	5.5	8	5	●●
TC440-M12X1.5-L2-	MF 12x1.5	1.5	100	13	73	9	7	10	5	●●
TC440-M14X1.5-L2-	MF 14x1.5	1.5	100	15	58	11	9	12	6	●●
TC440-M16X1.5-L2-	MF 16x1.5	1.5	100	15	58	12	9	12	6	●●
TC440-M18X1.5-L2-	MF 18x1.5	1.5	110	17	66	14	11	14	6	●●

Ordering example for the grade WY80AD: TC440-M10X1-L2-WY80AD

Solid carbide machine thread formers
TC470 Supreme



– For long-chipping materials



	P	M	K	N	S	H	O
WG20EL (AlCrN)	●●		●	●			

DIN 2174											WG20EL
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	h6	□	l ₉ mm	N		
TC470-M10X1-L5-	MF 10x1	1	90	14	67	7	5.5	8	7	☺	
TC470-M12X1.5-L5-	MF 12x1.5	1.5	100	13	73	9	7	10	8	☺	
TC470-M16X1.5-L5-	MF 16x1.5	1.5	100	15	58	12	9	12	8	☺	

Ordering example for the grade WG20EL: TC470-M10X1-L5-WG20EL

WALTER
SELECT

●● Primary application ● Other application

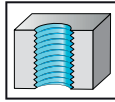
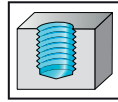
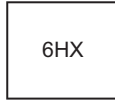
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

Solid carbide machine thread formers

TC470 Supreme



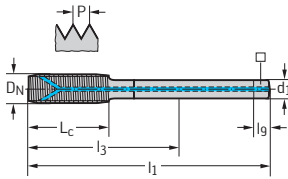
– For long-chipping materials



	P	M	K	N	S	H	O
WG20EL (AlCrN)	●●		●	●			

DIN 2174

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	h6	□	l ₉ mm	N	WG20EL
TC470-M16X1.5-L2-	MF 16x1.5	1.5	100	15	58	12	9	12	8	●●



Ordering example for the grade WG20EL: TC470-M16X1.5-L2-WG20EL

C2

**WALTER
SELECT**

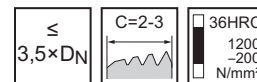
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine thread formers

TC410 Advance

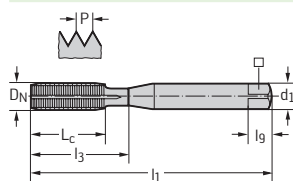


– For long-chipping materials



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●●	●●	●●	●		

DIN 2184-1



Designation	D _N -P	D _N -P mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	h ₉	□	l ₉ mm	N	WY80AD
TC410-UNC2-C6-	UNC #2-56	2.184	56	45	7	12	2.8	2.1	5	3	☞
TC410-UNC4-C6-	UNC #4-40	2.845	40	56	9	18	3.5	2.7	6	3	☞
TC410-UNC6-C6-	UNC #6-32	3.505	32	56	11	20	4	3	6	4	☞
TC410-UNC8-C6-	UNC #8-32	4.166	32	63	12	21	4.5	3.4	6	5	☞
TC410-UNC10-C6-	UNC #10-24	4.826	24	70	13	25	6	4.9	8	5	☞
TC410-UNC1/4-C6-	UNC 1/4-20	6.35	20	80	15	30	7	5.5	8	5	☞
TC410-UNC5/16-C6-	UNC 5/16-18	7.938	18	90	18	35	8	6.2	9	5	☞
TC410-UNC3/8-C6-	UNC 3/8-16	9.525	16	100	20	39	10	8	11	5	☞

Ordering example for the grade WY80AD: TC410-UNC1/4-C6-WY80AD

C2

**WALTER
SELECT**

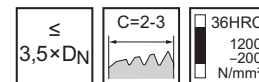
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = ☞ machining conditions

HSS-E machine thread formers

TC410 Advance



– For long-chipping materials



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●●	●	●●	●		

DIN 2184-1

	Designation	D _N -P	D _N -P mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	h ₉	□	l _g mm	N	WY80AD
	TC410-UNC7/16-L6-	UNC 7/16-14	11.113	14	100	20	76	8	6.2	9	6	●●
	TC410-UNC1/2-L6-	UNC 1/2-13	12.7	13	110	23	83	9	7	10	6	●●
	TC410-UNC5/8-L6-	UNC 5/8-11	15.875	11	110	25	68	12	9	12	6	●●

Ordering example for the grade WY80AD: TC410-UNC1/2-L6-WY80AD

C2

WALTER
SELECT

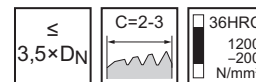
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine thread formers

TC410 Advance

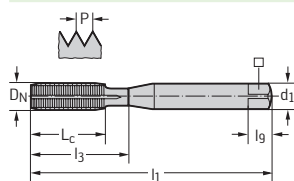


– For long-chipping materials



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●●	●	●●	●		

DIN 2184-1



Designation	D _N -P	D _N -P mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	h ₉	□	l ₉ mm	N	WY80AD
TC410-UNF2-C6-	UNF #2-64	2.184	64	45	7	12	2.8	2.1	5	3	☞
TC410-UNF4-C6-	UNF #4-48	2.845	48	56	9	18	3.5	2.7	6	3	☞
TC410-UNF6-C6-	UNF #6-40	3.505	40	56	11	20	4	3	6	4	☞
TC410-UNF8-C6-	UNF #8-36	4.166	36	63	12	21	4.5	3.4	6	5	☞
TC410-UNF10-C6-	UNF #10-32	4.826	32	70	13	25	6	4.9	8	5	☞
TC410-UNF1/4-C6-	UNF 1/4-28	6.35	28	80	15	30	7	5.5	8	5	☞
TC410-UNF5/16-C6-	UNF 5/16-24	7.938	24	90	18	35	8	6.2	9	5	☞
TC410-UNF3/8-C6-	UNF 3/8-24	9.525	24	90	20	39	10	8	11	5	☞

Ordering example for the grade WY80AD: TC410-UNF1/4-C6-WY80AD

C2

**WALTER
SELECT**

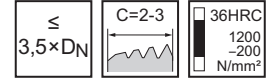
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = ☞ machining conditions

HSS-E machine thread formers

TC410 Advance



– For long-chipping materials



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●●	●	●●	●		

DIN 2184-1

	Designation	D _N -P	D _N -P mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	h ₉	□	l ₉ mm	N	WY80AD
	TC410-UNF7/16-L6-	UNF 7/16-20	11.113	20	100	20	76	8	6.2	9	6	☹
	TC410-UNF1/2-L6-	UNF 1/2-20	12.7	20	100	21	73	9	7	10	6	☹
	TC410-UNF5/8-L6-	UNF 5/8-18	15.875	18	100	21	58	12	9	12	6	☹

Ordering example for the grade WY80AD: TC410-UNF1/2-L6-WY80AD

C2

WALTER
SELECT

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

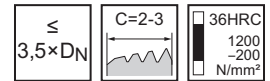
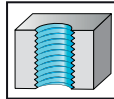
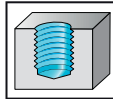
HSS-E machine thread formers

TC410 Advance



– For long-chipping materials

G (BSP)
DIN EN ISO 228



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●●	●	●●	●		

DIN 2189

	Designation	D _N -P	D _N -P mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	h9	□	l ₉ mm	N	WY80AD
	TC410-G1/8-N6-	G 1/8-28	9.728	28	90	20	67	7	5.5	8	5	☹
	TC410-G1/4-N6-	G 1/4-19	13.157	19	100	21	71	11	9	12	6	☹
	TC410-G3/8-N6-	G 3/8-19	16.662	19	100	21	58	12	9	12	6	☹
	TC410-G1/2-N6-	G 1/2-14	20.955	14	125	24	80	16	12	15	8	☹
	TC410-G3/4-N6-	G 3/4-14	26.441	14	140	26	77	20	16	19	8	☹
	TC410-G1-N6-	G 1"-11	33.249	11	160	28	93	25	20	23	8	☹

Ordering example for the grade WY80AD: TC410-G1-N6-WY80AD

**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

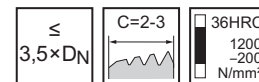
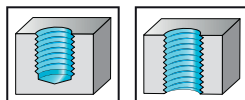
HSS-E machine thread formers

Protodyn® SF



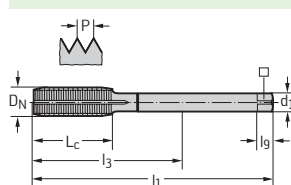
– For long-chipping materials

G (BSP)
DIN EN ISO 228



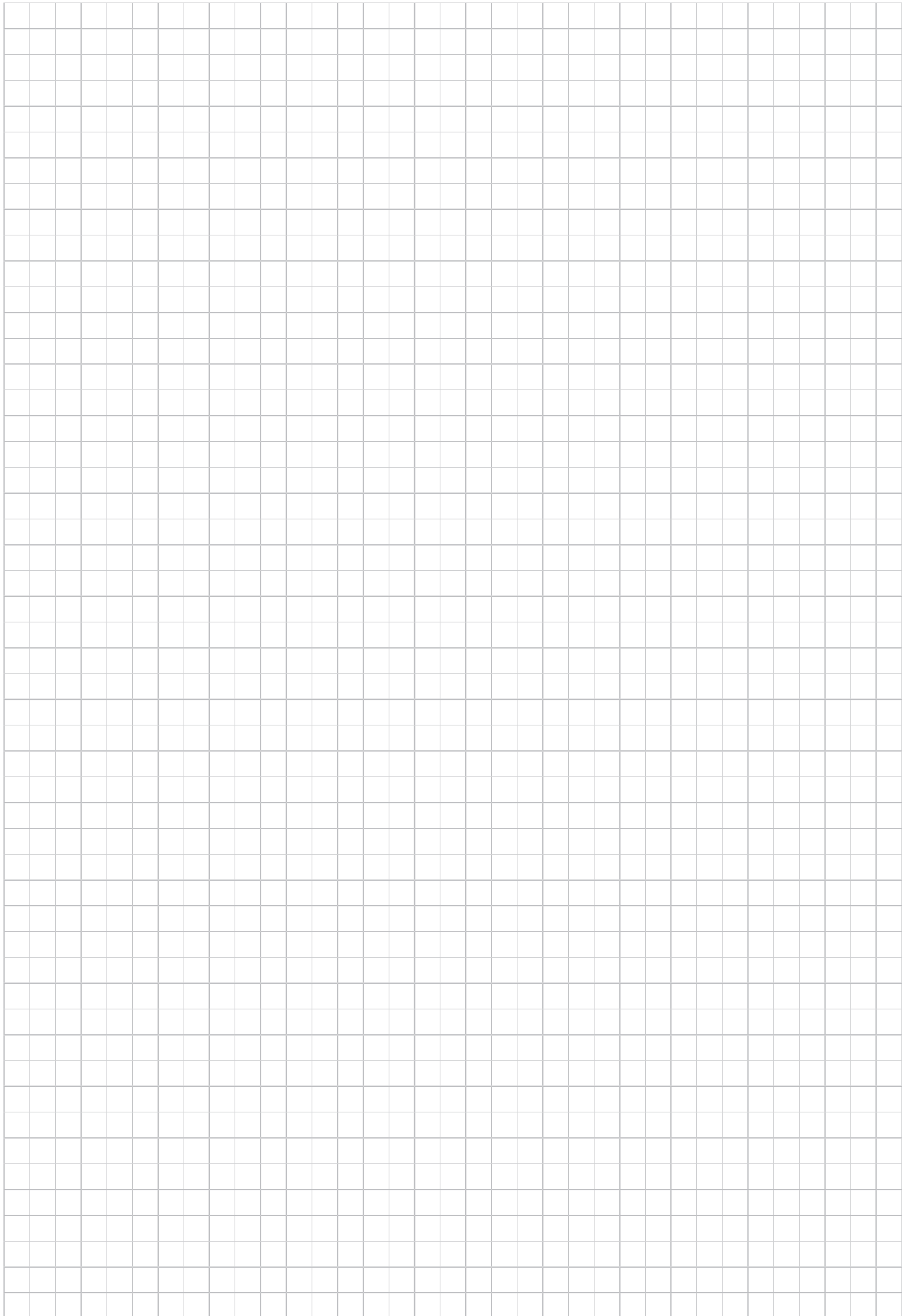
	P	M	K	N	S	H	O
TICN	●●	●●	●●	●●	●		

DIN 2189



Designation	D _N -P	D _N -P mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	h ₉	□	l ₉ mm	N
D7466706-G1/8	G 1/8-28	9.728	28	90	20	67	7	5.5	8	5
D7466706-G1/4	G 1/4-19	13.157	19	100	21	71	11	9	12	6
D7466706-G3/8	G 3/8-19	16.662	19	100	21	58	12	9	12	6
D7466706-G1/2	G 1/2-14	20.955	14	125	24	80	16	12	15	7

Ordering example for the grade TICN: D7466406-G1/8



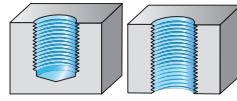


C – Threading

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Drill thread milling cutters

Machining



Thread depth

 $2 \times D_N$
 $2.5 \times D_N$


Designation

TC685 Supreme

TC685 Supreme

TMD

Thread type

M

✓

✓

✓

MF

✓

✓

UNC / UNF / UN-8

G / Rc / Rp

MJ / UNJC / UNJF

NPT / NPTF

Pg / BSW / Tr

STI / Eg / Thread insert

✓

✓

Tolerance

Coolant supply

External / axial

External / axial

axial

Chamfer form

Coating / grade

WB10RC

WB10RC

NHC / TAX

Cutting tool material

CARBIDE

CARBIDE

CARBIDE

P Steel

●

●

M Stainless steel

K Cast iron

●

●

● ●

N NF metals

●

●

● ●

S Materials with difficult cutting properties

●

●

H Hard materials

● ●

● ●

O Other

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C 359

C 361

QR code


www.walter-tools.com/woc/

TC685

TC685

tmd

WALTER SELECT

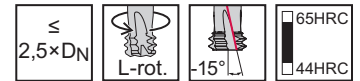
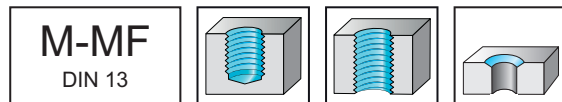
● ● Primary application ● Other application

Orbital drill thread milling cutter

TC685 Supreme



- Orbital drill thread milling cutters for hardened materials
- Chamfer, core hole and thread in one operation



	P	M	K	N	S	H	O
WB10RC (TAX)	●	●	●	●	●	●	●

Tool	Designation	P mm	D _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10RC
	TC685-M3-A0E-	0.5	2.35	7.5	50	14	6	4	☺
	TC685-M4-A0E-	0.7	3.1	10	57	21	6	4	☺
	TC685-M5-A0E-	0.8	3.9	12.5	57	21	6	4	☺
DIN 6535 HA									
	TC685-M6-A1E-	1	4.6	15	57	21	6	4	☺
	TC685-M8-A1E-	1.25	6.2	20	63	27	8	4	☺
	TC685-M10-A1E-	1.5	7.8	25	63	27	8	4	☺
	TC685-M12-A1E-	1.75	9	30	72	32	10	4	☺
	TC685-M14-A1E-	2	10.5	35	83	38	12	4	☺
	TC685-M16-A1E-	2	12.5	40	92	44	16	4	☺
DIN 6535 HA									

Maximum nominal thread diameter for fine thread: $D_c \times 1.94$
 Example: TC685-M8.. / 6.2 mm x 1.94 = 12.03 mm / MF 12x1.25 possible
 Ordering example for the grade WB10RC: TC685-M3-A0E-WB10RC

C3

**WALTER
SELECT**

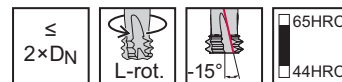
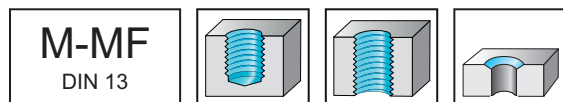
●● Primary application ● Other application
 Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

Orbital drill thread milling cutter

TC685 Supreme



- Orbital drill thread milling cutters for hardened materials
- Chamfer, core hole and thread in one operation



	P	M	K	N	S	H	O
WB10RC (TAX)	●	●	●	●	●	●	●

Tool	Designation	P mm	D _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10RC
	TC685-M3-A0D-	0.5	2.35	6	50	14	6	4	☺
	TC685-M4-A0D-	0.7	3.1	8	50	14	6	4	☺
	TC685-M5-A0D-	0.8	3.9	10	57	21	6	4	☺
DIN 6535 HA									
	TC685-M6-A1D-	1	4.6	12	57	21	6	4	☺
	TC685-M8-A1D-	1.25	6.2	16	63	27	8	4	☺
	TC685-M10-A1D-	1.5	7.8	20	63	27	8	4	☺
	TC685-M12-A1D-	1.75	9	24	72	32	10	4	☺
	TC685-M14-A1D-	2	10.5	28	83	38	12	4	☺
	TC685-M16-A1D-	2	12.5	32	92	44	16	4	☺
DIN 6535 HA									

Maximum nominal thread diameter for fine thread: $D_c \times 1.94$
Example: TC685-M8.. / $6.2 \text{ mm} \times 1.94 = 12.03 \text{ mm}$ / MF 12x1.25 possible
Ordering example for the grade WB10RC: TC685-M3-A0D-WB10RC

**WALTER
SELECT**

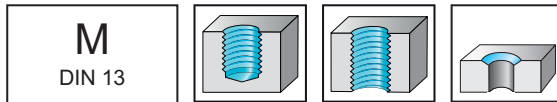
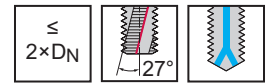
●● Primary application ● Other application
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

Solid carbide drill thread milling cutters

TMD



- Drilling, countersinking and thread milling in one operation
- Drill thread milling cutters



	P	M	K	N	S	H	O
NHC				●●			
TAX			●●	●●			

Tool

Designation	P mm	D _c mm	D _a mm	L _c mm	L _{c3} mm	d ₄ mm	L _{c1} mm	L _{c2} mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
H5075011-M6	1	5	4.75	11	14.7	6.3	13.8	1	62	26	8	3
H5075011-M8	1.25	6.8	6.42	13.8	18.9	8.3	17.7	1.25	74	34	10	3
DIN 6535 HA												
H5075018-M6	1	5	4.75	11	14.7	6.3	13.8	1	62	26	8	3
H5075018-M8	1.25	6.8	6.42	13.8	18.9	8.3	17.7	1.25	74	34	10	3
H5075018-M10	1.5	8.5	8.07	18	23.7	10.3	22.2	1.5	80	35	12	3
DIN 6535 HA												

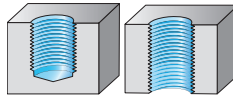
C3

**WALTER
SELECT**

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

Thread milling cutters with countersink

Machining



Thread depth

 $2 \times D_N$


Designation

TMC

Thread type

M



MF



UNC / UNF / UN-8

G / Rc / Rp

MJ / UNJC / UNJF

NPT / NPTF

Pg / BSW / Tr

STI / Eg / Thread insert



Tolerance

Coolant supply

External / axial

Chamfer form

Coating / grade

TICN / uncoated

Cutting tool material

CARBIDE

P Steel



M Stainless steel



K Cast iron



N NF metals



S Materials with difficult cutting properties



H Hard materials

O Other



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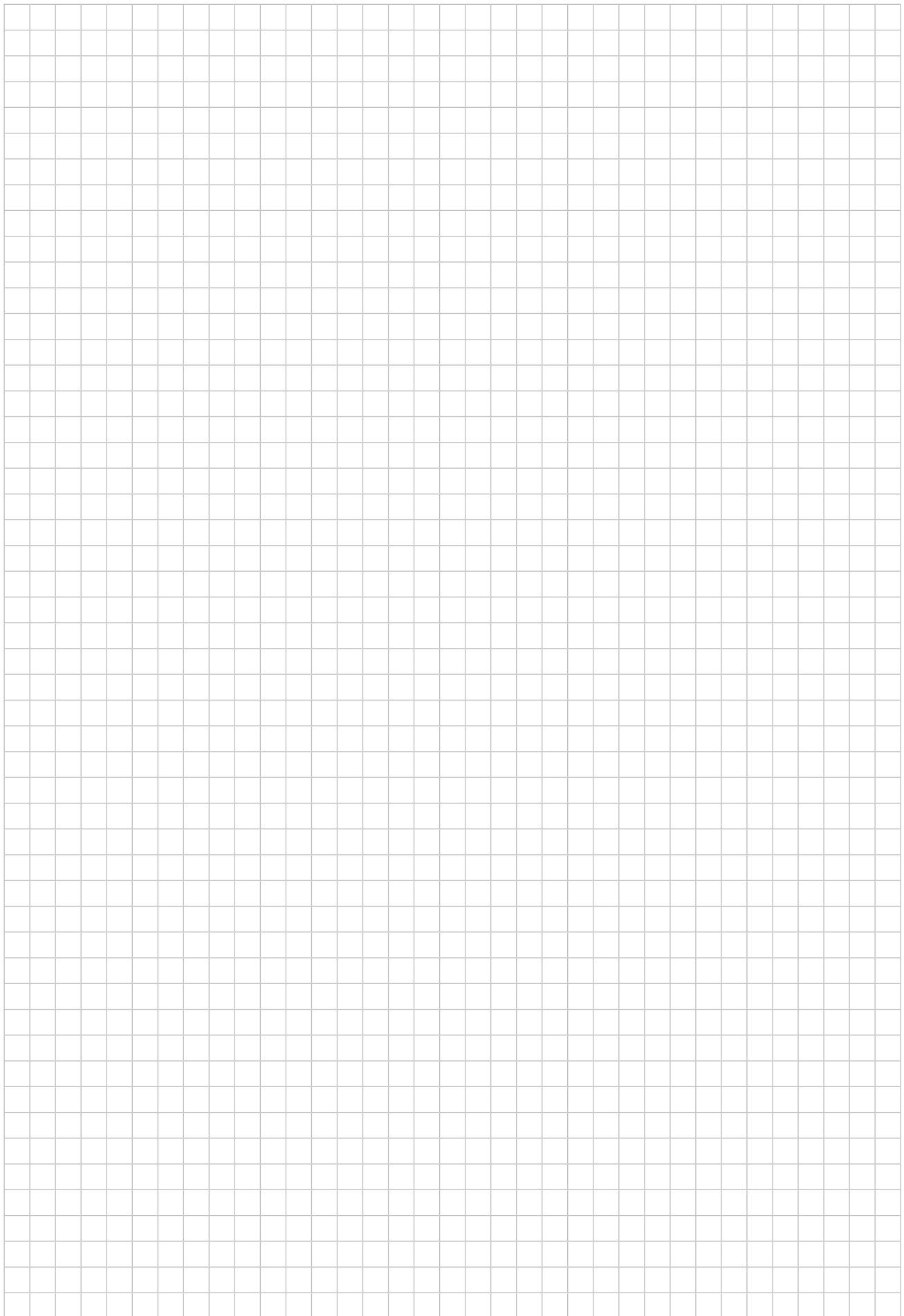
QR code


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tmc

WALTER SELECT

●● Primary application ● Other application

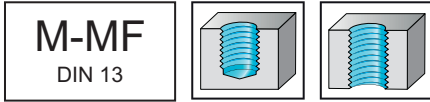
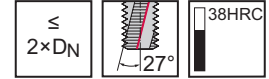


Solid carbide thread milling cutters

TMC



– Universal thread milling cutters with countersink



	P	M	K	N	S	H	O
TICN	●●	●●	●●	●●	●●	●	●

Tool	Designation	D _N	P mm	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
DIN 6535 HB	H5055106-M3	M 3	0.5	2.3	6	57	21	6	3

C3

**WALTER
SELECT**

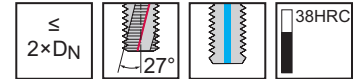
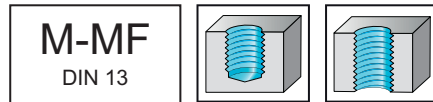
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide thread milling cutters

TMC



– Universal thread milling cutters with countersink



	P	M	K	N	S	H	O
TICN	●●	●●	●●	●●	●●		●

Tool		Designation	D _N	P mm	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
DIN 6535 HB		H5055116-M4	M 4	0.7	3.2	8.4	57	21	6	3
		H5055116-M5	M 5	0.8	4.1	10.4	57	21	6	3
		H5055116-M6	M 6	1	4.8	12	63	27	8	3
		H5055116-M8	M 8	1.25	6.5	16.3	72	32	10	3
		H5055116-M10	M 10	1.5	8.2	21	83	38	12	3
		H5055116-M12	M 12	1.75	9.9	24.5	83	38	14	4
		H5055116-M14	M 14	2	11.6	30	92	44	16	4
		H5055116-M16	M 16	2	13.6	32	92	44	18	4

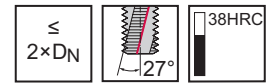
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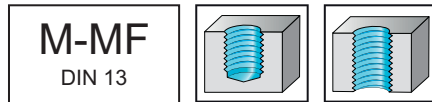
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide thread milling cutters

TMC



– Universal thread milling cutters with countersink



	P	M	K	N	S	H	O
uncoated	●●	●●	●●	●●	●●	●	●
TICN	●●	●●	●●	●●	●●	●	●

Tool	Designation uncoated	D _N	P mm	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
DIN 6535 HA	H505500-M3	M 3	0.5	2.3	6	57	21	6	3
Tool	Designation TICN	D _N	P mm	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
DIN 6535 HA	H5055006-M3	M 3	0.5	2.3	6	57	21	6	3

C3

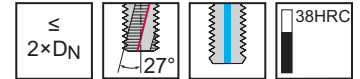
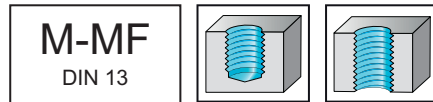
**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide thread milling cutters TMC



– Universal thread milling cutters with countersink



	P	M	K	N	S	H	O
TICN	●●	●●	●●	●●	●●		●

Tool		Designation	D _N	P mm	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
DIN 6535 HA		H5055016-M4	M 4	0.7	3.2	8.4	57	21	6	3
		H5055016-M5	M 5	0.8	4.1	10.4	57	21	6	3
		H5055016-M6	M 6	1	4.8	12	63	27	8	3
		H5055016-M8	M 8	1.25	6.5	16.3	72	32	10	3
		H5055016-M10	M 10	1.5	8.2	21	83	38	12	3
		H5055016-M12	M 12	1.75	9.9	24.5	83	38	14	4
		H5055016-M14	M 14	2	11.6	30	92	44	16	4
		H5055016-M16	M 16	2	13.6	32	92	44	18	4

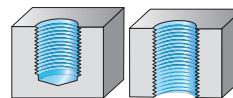
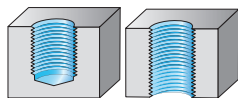
C3

**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Thread milling cutters without countersink

Machining



Thread depth

1.5 x D_N

1.5 x D_N

1.5 x D_N

2 x D_N

2 x D_N


Designation

TC610 Supreme

TMG HRC

TMG Ni

TC611 Supreme

TC620 Supreme

Thread type

M

✓

✓

✓

✓

MF

✓

✓

✓

✓

UNC / UNF / UN-8

✓

✓

✓

G / Rc / Rp

✓

MJ / UNJC / UNJF

✓

NPT / NPTF

Pg / BSW / Tr

STI / Eg / Thread insert

✓

✓

✓

✓

✓

Tolerance

Coolant supply

External / axial

External

External / axial

External / axial

axial

Chamfer form

Coating / grade

WB10RD / WJ30RC

TAX

TICN

WB10RD /
WJ30RC

WB10TJ

Cutting tool material

CARBIDE

CARBIDE

CARBIDE

CARBIDE

CARBIDE

P Steel

●●

●●

●●

●●

●●

M Stainless steel

●●

●●

●●

●●

●●

K Cast iron

●●

●●

●●

●●

●●

N NF metals

●●

●

●●

●●

S Materials with difficult cutting properties

●●

●

●●

●●

●●

H Hard materials

●●

●●

●●

●●

●●

O Other

●

●

●

●

●

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C 380

C 388

QR code



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TC610

tmg-hrc

tmg-ni

TC611

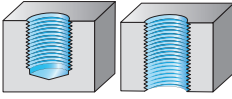
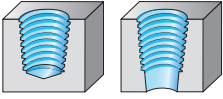
TC620

WALTER SELECT

●● Primary application

● Other application

Thread milling cutters without countersink

Machining			
Thread depth	2 x D _N	2.5 x D _N	
			
Designation	TME	TC620 Supreme	TMG
Thread type			
M	✓	✓	
MF	✓	✓	
UNC / UNF / UN-8		✓	
G / Rc / Rp			
MJ / UNJC / UNJF			
NPT / NPTF			✓
Pg / BSW / Tr			
STI / Eg / Thread insert	✓	✓	
Tolerance			
Coolant supply	External	axial	External
Chamfer form			
Coating / grade	TICN	WB10TJ	TICN
Cutting tool material	CARBIDE	CARBIDE	CARBIDE
P Steel	●●	●●	●●
M Stainless steel	●●	●●	●●
K Cast iron	●●	●●	●●
N NF metals	●●	●●	●●
S Materials with difficult cutting properties	●●	●●	●●
H Hard materials			
O Other	●	●	●
Page in catalog	C 398	C 386	C 405
QR code			
	tme	TC620	tmg

C3

Solid carbide thread milling cutters

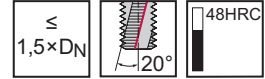
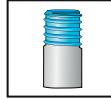
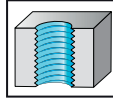
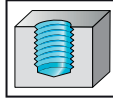
TC610 Supreme



– Universal thread milling cutters

G (BSP)
DIN EN ISO 228

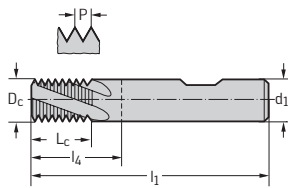
Rp
DIN EN 10226-1



P	M	K	N	S	H	O
●●	●●	●●	●●	●●	●●	●●

WJ30RC (TAM)

Tool



DIN 6535 HB

Designation	D _N	Threads per inch	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RC
TC610-G1/8-W0-	G 1/8-28	28	6	15.4	57	21	6	5	☺
TC610-G1/4-W0-	G 1/4-19	19	10	20.1	72	32	10	5	☺
TC610-G3/8-W0-	G 3/8-19	19	14	25.4	83	38	14	7	☺
TC610-G1/2-W0-	G 1/2-14	14	16	32.7	96	44	16	6	☺
TC610-G1X20-W0-	G 1"-11	11	20	50.8	120	75	20	6	☺

Ordering example for the grade WJ30RC: TC610-G1/2-W0-WJ30RC

Solid carbide thread milling cutters

TC610 Supreme



– Universal thread milling cutters

G (BSP)
DIN EN ISO 228

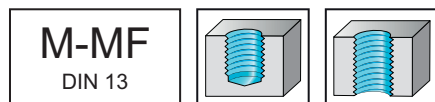
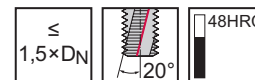
Rp
DIN EN 10226-1

Solid carbide thread milling cutters

TC610 Supreme

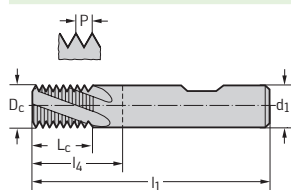


– Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC (TAM)	●●	●●	●●	●●	●●	●●	●●

Tool



DIN 6535 HB

Designation	D _N	P mm	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RC
TC610-M6-W0-	M 6	1	4.5	9	57	21	6	4	☺
TC610-M8-W0-	M 8	1.25	6	12.5	57	21	6	4	☺
TC610-M10-W0-	M 10	1.5	7.5	15	63	27	8	4	☺
TC610-M12-W0-	M 12	1.75	9.5	19.3	72	32	10	4	☺
TC610-M14-W0-	M 14	2	10	22	72	32	10	4	☺
TC610-M16-W0-	M 16	2	12	24	83	38	12	5	☺
TC610-M20-W0-	M 20	2.5	16	30	92	44	16	6	☺
TC610-M24-W0-	M 24	3	19	36	104	54	20	6	☺

Ordering example for the grade WJ30RC: TC610-M10-W0-WJ30RC

C3

WALTER
SELECT

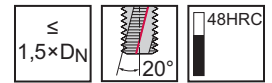
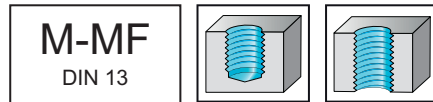
●● Primary application ● Other application
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

Solid carbide thread milling cutters

TC610 Supreme



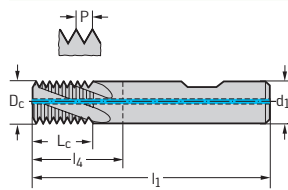
– Universal thread milling cutters



	P	M	K	N	S	H	O
WB10RD (TAZ)	●●	●●	●●	●●	●●		●
WJ30RC (TAM)	●●	●●	●●	●●	●●		●

Tool										WB10RD	WJ30RC
Designation	D _N	P mm	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z			
TC610-M6-W1-	M 6	1	4.5	9	57	21	6	4	☺	☺	
TC610-M8-W1-	M 8	1.25	6	12.5	57	21	6	4	☺	☺	
TC610-M10-W1-	M 10	1.5	7.5	15	63	27	8	4	☺	☺	
TC610-M12-W1-	M 12	1.75	9.5	19.3	72	32	10	4	☺	☺	
TC610-M14-W1-	M 14	2	10	22	72	32	10	4		☺	
TC610-M16-W1-	M 16	2	12	24	83	38	12	5	☺	☺	
TC610-M20-W1-	M 20	2.5	16	30	92	44	16	6		☺	
TC610-M24-W1-	M 24	3	19	36	104	54	20	6		☺	

Ordering example for the grade WB10RD: TC610-M10-W1-WB10RD



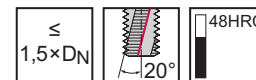
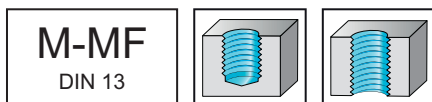
DIN 6535 HB

Solid carbide thread milling cutters

TC610 Supreme

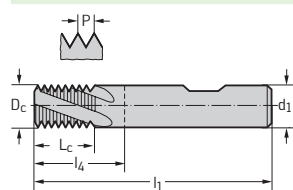


– Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC (TAM)	●●	●●	●●	●●	●●	●●	●●

Tool



DIN 6535 HB

Designation	D _N	P mm	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RC
TC610-M6X0.5-W0-	MF 6X0.5	0.5	4.8	9	57	21	6	5	☺
TC610-M8X0.75-W0-	MF 8X0.75	0.75	6	12	57	21	6	5	☺
TC610-M8X1-W0-	MF 8X1	1	6	12	57	21	6	4	☺
TC610-M10X0.5-W0-	MF 10X0.5	0.5	8	15	63	27	8	7	☺
TC610-M10X1-W0-	MF 10X1	1	8	15	63	27	8	5	☺
TC610-M12X1-W0-	MF 12X1	1	10	18	72	32	10	6	☺
TC610-M12X1.25-W0-	MF 12X1.25	1.25	10	18.8	72	32	10	6	☺
TC610-M12X1.5-W0-	MF 12X1.5	1.5	10	18	72	32	10	5	☺
TC610-M14X1-W0-	MF 14X1	1	12	21	83	38	12	7	☺
TC610-M14X1.5-W0-	MF 14X1.5	1.5	12	21	83	38	12	6	☺
TC610-M16X1-W0-	MF 16X1	1	14	24	83	38	14	7	☺
TC610-M16X1.5-W0-	MF 16X1.5	1.5	14	24	83	38	14	6	☺
TC610-M18X1-W0-	MF 18X1	1	16	27	92	44	16	8	☺
TC610-M18X1.5-W0-	MF 18X1.5	1.5	16	27	92	44	16	7	☺
TC610-M20X2-W0-	MF 20X2	2	16	30	92	44	16	6	☺
TC610-M24X2-W0-	MF 24X2	2	20	36	104	54	20	7	☺

Ordering example for the grade WJ30RC: TC610-M10X0.5-W0-WJ30RC

**WALTER
SELECT**

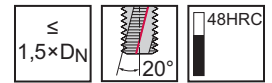
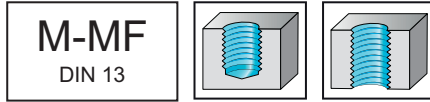
●● Primary application ● Other application
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

Solid carbide thread milling cutters

TC610 Supreme

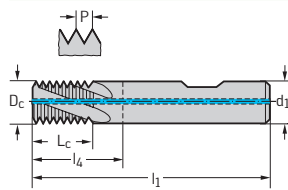


– Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC (TAM)	●●	●●	●●	●●	●●		●
WB10RD (TAZ)	●●	●●	●●	●●	●●		●

Tool



DIN 6535 HB

Designation	D _N	P mm	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RC	WB10RD
TC610-M6X0.5-W1-	MF 6X0.5	0.5	4.8	9	57	21	6	5	☹	
TC610-M8X0.75-W1-	MF 8X0.75	0.75	6	12	57	21	6	5	☹	☹
TC610-M8X1-W1-	MF 8X1	1	6	12	57	21	6	4	☹	
TC610-M10X0.5-W1-	MF 10X0.5	0.5	8	15	63	27	8	7	☹	
TC610-M10X1-W1-	MF 10X1	1	8	15	63	27	8	5	☹	☹
TC610-M12X1-W1-	MF 12X1	1	10	18	72	32	10	6	☹	☹
TC610-M12X1.25-W1-	MF 12X1.25	1.25	10	18.8	72	32	10	6	☹	
TC610-M12X1.5-W1-	MF 12X1.5	1.5	10	18	72	32	10	5	☹	☹
TC610-M14X1-W1-	MF 14X1	1	12	21	83	38	12	7	☹	☹
TC610-M14X1.5-W1-	MF 14X1.5	1.5	12	21	83	38	12	6	☹	☹
TC610-M16X1-W1-	MF 16X1	1	14	24	83	38	14	7	☹	
TC610-M16X1.5-W1-	MF 16X1.5	1.5	14	24	83	38	14	6	☹	☹
TC610-M18X1-W1-	MF 18X1	1	16	27	92	44	16	8	☹	
TC610-M18X1.5-W1-	MF 18X1.5	1.5	16	27	92	44	16	7	☹	☹
TC610-M20X2-W1-	MF 20X2	2	16	30	92	44	16	6	☹	☹
TC610-M24X2-W1-	MF 24X2	2	20	36	104	54	20	7	☹	

Ordering example for the grade WJ30RC: TC610-M10X0.5-W1-WJ30RC

**WALTER
SELECT**

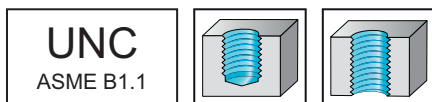
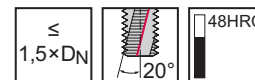
●● Primary application ● Other application
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

Solid carbide thread milling cutters

TC610 Supreme

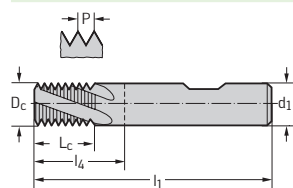


– Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC (TAM)	●●	●●	●●	●●	●●	●●	●●

Tool



DIN 6535 HB

Designation	D _N	Threads per inch	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RC
TC610-UNC1/4-W0-	UNC 1/4-20	20	4.8	10.2	57	21	6	3	☹
TC610-UNC5/16-W0-	UNC 5/16-18	18	5.5	12.7	57	21	6	4	☹
TC610-UNC3/8-W0-	UNC 3/8-16	16	7.5	14.3	63	27	8	4	☹
TC610-UNC7/16-W0-	UNC 7/16-14	14	8	18.1	63	27	8	4	☹
TC610-UNC1/2-W0-	UNC 1/2-13	13	10	19.5	72	32	10	4	☹
TC610-UNC9/16-W0-	UNC 9/16-12	12	10	19.5	72	32	10	4	☹
TC610-UNC5/8-W0-	UNC 5/8-11	11	12	25.4	83	38	12	5	☹
TC610-UNC3/4-W0-	UNC 3/4-10	10	14	30.5	90	45	14	5	☹
TC610-UNC1-W0-	UNC 1"-8	8	18	38.1	104	54	20	5	☹

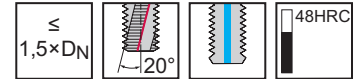
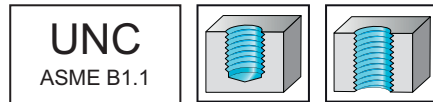
Ordering example for the grade WJ30RC: TC610-UNC1-W0-WJ30RC

Solid carbide thread milling cutters

TC610 Supreme



– Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC (TAM)	●●	●●	●●	●●	●●		●

Tool	Designation	D _N	Threads per inch	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RC
DIN 6535 HB	TC610-UNC1/4-W1-	UNC 1/4-20	20	4.8	10.2	57	21	6	3	☺
	TC610-UNC5/16-W1-	UNC 5/16-18	18	5.5	12.7	57	21	6	4	☺
	TC610-UNC3/8-W1-	UNC 3/8-16	16	7.5	14.3	63	27	8	4	☺
	TC610-UNC7/16-W1-	UNC 7/16-14	14	8	18.1	63	27	8	4	☺
	TC610-UNC1/2-W1-	UNC 1/2-13	13	10	19.5	72	32	10	4	☺
	TC610-UNC9/16-W1-	UNC 9/16-12	12	10	19.5	72	32	10	4	☺
	TC610-UNC5/8-W1-	UNC 5/8-11	11	12	25.4	83	38	12	5	☺
	TC610-UNC3/4-W1-	UNC 3/4-10	10	14	30.5	90	45	14	5	☺
	TC610-UNC7/8-W1-	UNC 7/8-9	9	16	33.9	98	50	16	5	☺
	TC610-UNC1-W1-	UNC 1"-8	8	18	38.1	104	54	20	5	☺

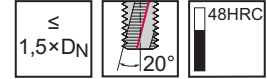
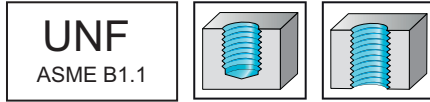
Ordering example for the grade WJ30RC: TC610-UNC1-W1-WJ30RC

Solid carbide thread milling cutters

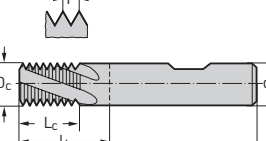
TC610 Supreme



– Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC (TAM)	●●	●●	●●	●●	●●		●

Tool											
 DIN 6535 HB	Designation	D _N	Threads per inch	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RC	
	TC610-UNF10-W0-	UNF #10-32	32	3.6	7.9	57	21	6	3		
	TC610-UNF1/4-W0-	UNF 1/4-28	28	4.8	10	57	21	6	4		
	TC610-UNF5/16-W0-	UNF 5/16-24	24	6	12.7	57	21	6	4		
	TC610-UNF7/16-W0-	UNF 7/16-20	20	8	17.8	63	27	8	4		
	TC610-UNF9/16-W0-	UNF 9/16-18	18	10	22.6	72	32	10	5		
	TC610-UNF3/4-W0-	UNF 3/4-16	16	14	28.6	88	43	14	6		

DIN 6535 HB

Ordering example for the grade WJ30RC: TC610-UNF1/4-W0-WJ30RC

C3

WALTER
SELECT

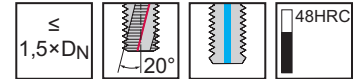
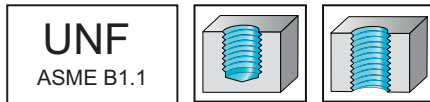
●● Primary application ● Other application
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

Solid carbide thread milling cutters

TC610 Supreme

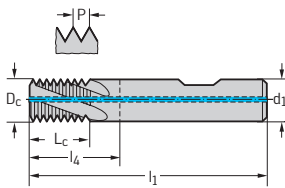


– Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC (TAM)	●●	●●	●●	●●	●●		●

Tool



DIN 6535 HB

Designation	D _N	Threads per inch	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RC
TC610-UNF10-W1-	UNF #10-32	32	3.6	7.9	57	21	6	3	☹
TC610-UNF1/4-W1-	UNF 1/4-28	28	4.8	10	57	21	6	4	☹
TC610-UNF5/16-W1-	UNF 5/16-24	24	6	12.7	57	21	6	4	☹
TC610-UNF7/16-W1-	UNF 7/16-20	20	8	17.8	63	27	8	4	☹
TC610-UNF9/16-W1-	UNF 9/16-18	18	10	22.6	72	32	10	5	☹
TC610-UNF3/4-W1-	UNF 3/4-16	16	14	28.6	88	43	14	6	☹

Ordering example for the grade WJ30RC: TC610-UNF1/4-W1-WJ30RC

C3

**WALTER
SELECT**

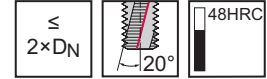
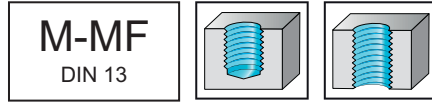
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

Solid carbide thread milling cutters

TC611 Supreme



– Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC (TAM)	●●	●●	●●	●●	●●		●

Tool	Designation	D _N	P mm	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RC
DIN 6535 HB	TC611-M6-W0-	M 6	1	4,5	12	57	21	6	4	☺
	TC611-M8-W0-	M 8	1,25	6	16,3	57	21	6	4	☺
	TC611-M10-W0-	M 10	1,5	7,5	21	63	27	8	4	☺
	TC611-M12-W0-	M 12	1,75	9,5	24,5	72	32	10	4	☺
	TC611-M14-W0-	M 14	2	10	28	80	40	10	4	☺
	TC611-M16-W0-	M 16	2	12	32	89	44	12	5	☺
	TC611-M20-W0-	M 20	2,5	16	40	105	57	16	6	☺
	TC611-M24-W0-	M 24	3	19	48	118	68	20	6	☺

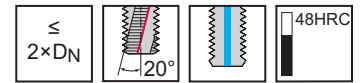
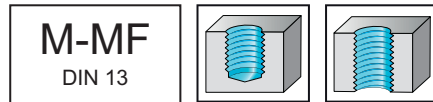
Ordering example for the grade WJ30RC: TC611-M10-W0-WJ30RC

Solid carbide thread milling cutters

TC611 Supreme



– Universal thread milling cutters



	P	M	K	N	S	H	O
WB10RD (TAZ)	●●	●●	●●	●●	●●		●
WJ30RC (TAM)	●●	●●	●●	●●	●●		●

Tool										WB10RD	WJ30RC
	Designation	D _N	P mm	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z		
DIN 6535 HB	TC611-M6-W1-	M 6	1	4.5	12	57	21	6	4	☺	☺
	TC611-M8-W1-	M 8	1.25	6	16.3	57	21	6	4	☺	☺
	TC611-M10-W1-	M 10	1.5	7.5	21	63	27	8	4	☺	☺
	TC611-M12-W1-	M 12	1.75	9.5	24.5	72	32	10	4	☺	☺
	TC611-M14-W1-	M 14	2	10	28	80	40	10	4		☺
	TC611-M16-W1-	M 16	2	12	32	89	44	12	5	☺	☺
	TC611-M20-W1-	M 20	2.5	16	40	105	57	16	6	☺	☺
	TC611-M24-W1-	M 24	3	19	48	118	68	20	6		☺

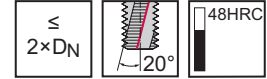
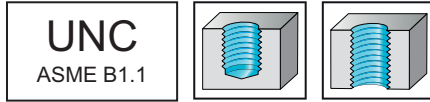
Ordering example for the grade WB10RD: TC611-M10-W1-WB10RD

Solid carbide thread milling cutters

TC611 Supreme



– Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC (TAM)	●●	●●	●●	●●	●●		●

Tool	Designation	D _N	Threads per inch	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RC
DIN 6535 HB	TC611-UNC1/4-W0-	UNC 1/4-20	20	4.8	12.7	57	21	6	3	☺
	TC611-UNC5/16-W0-	UNC 5/16-18	18	5.5	16.9	57	21	6	4	☺
	TC611-UNC3/8-W0-	UNC 3/8-16	16	7.5	19.1	63	27	8	4	☺
	TC611-UNC7/16-W0-	UNC 7/16-14	14	8	23.6	68	32	8	4	☺
	TC611-UNC1/2-W0-	UNC 1/2-13	13	10	25.4	76	36	10	4	☺
	TC611-UNC9/16-W0-	UNC 9/16-12	12	10	29.6	80	40	10	4	☺
	TC611-UNC5/8-W0-	UNC 5/8-11	11	12	32.3	90	45	12	5	☺
	TC611-UNC3/4-W0-	UNC 3/4-10	10	14	38.1	98	53	14	5	☺
	TC611-UNC7/8-W0-	UNC 7/8-9	9	16	45.2	108	60	16	5	☺
	TC611-UNC1-W0-	UNC 1"-8	8	18	50.8	116	68	20	5	☺

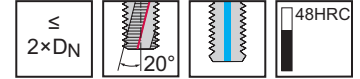
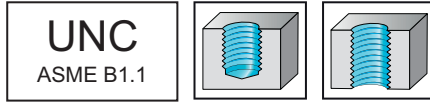
Ordering example for the grade WJ30RC: TC611-UNC1-W0-WJ30RC

Solid carbide thread milling cutters

TC611 Supreme



– Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC (TAM)	●●	●●	●●	●●	●●		●

Tool	Designation	D _N	Threads per inch	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RC
DIN 6535 HB	TC611-UNC1/4-W1-	UNC 1/4-20	20	4.8	12.7	57	21	6	3	☹
	TC611-UNC5/16-W1-	UNC 5/16-18	18	5.5	16.9	57	21	6	4	☹
	TC611-UNC3/8-W1-	UNC 3/8-16	16	7.5	19.1	63	27	8	4	☹
	TC611-UNC7/16-W1-	UNC 7/16-14	14	8	23.6	68	32	8	4	☹
	TC611-UNC1/2-W1-	UNC 1/2-13	13	10	25.4	76	36	10	4	☹
	TC611-UNC9/16-W1-	UNC 9/16-12	12	10	29.6	80	40	10	4	☹
	TC611-UNC5/8-W1-	UNC 5/8-11	11	12	32.3	90	45	12	5	☹
	TC611-UNC3/4-W1-	UNC 3/4-10	10	14	38.1	98	53	14	5	☹
	TC611-UNC7/8-W1-	UNC 7/8-9	9	16	45.2	108	60	16	5	☹
	TC611-UNC1-W1-	UNC 1"-8	8	18	50.8	116	68	20	5	☹

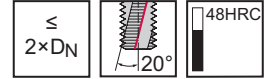
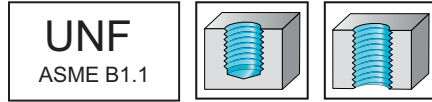
Ordering example for the grade WJ30RC: TC611-UNC1-W1-WJ30RC

Solid carbide thread milling cutters

TC611 Supreme



– Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC (TAM)	●●	●●	●●	●●	●●		●

Tool	Designation	D _N	Threads per inch	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RC
	TC611-UNF10-W0-	UNF #10-32	32	3.6	10.3	57	21	6	3	☺
	TC611-UNF1/4-W0-	UNF 1/4-28	28	4.8	12.7	57	21	6	4	☺
	TC611-UNF5/16-W0-	UNF 5/16-24	24	6	15.9	57	21	6	4	☺
	TC611-UNF7/16-W0-	UNF 7/16-20	20	8	22.9	68	32	8	4	☺
	TC611-UNF9/16-W0-	UNF 9/16-18	18	10	29.6	80	40	10	5	☺
	TC611-UNF3/4-W0-	UNF 3/4-16	16	14	38.1	98	53	14	6	☺

DIN 6535 HB

Ordering example for the grade WJ30RC: TC611-UNF1/4-W0-WJ30RC

C3

WALTER
SELECT

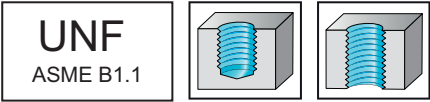
●● Primary application ● Other application
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

Solid carbide thread milling cutters

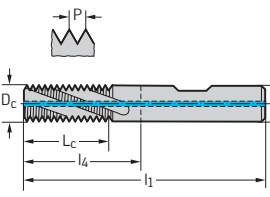
TC611 Supreme



– Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC (TAM)	●●	●●	●●	●●	●●		●

Tool		Designation	D _N	Threads per inch	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RC
		TC611-UNF10-W1-	UNF #10-32	32	3.6	10.3	57	21	6	3	☺
		TC611-UNF1/4-W1-	UNF 1/4-28	28	4.8	12.7	57	21	6	4	☺
		TC611-UNF5/16-W1-	UNF 5/16-24	24	6	15.9	57	21	6	4	☺
		TC611-UNF7/16-W1-	UNF 7/16-20	20	8	22.9	68	32	8	4	☺
		TC611-UNF9/16-W1-	UNF 9/16-18	18	10	29.6	80	40	10	5	☺
		TC611-UNF3/4-W1-	UNF 3/4-16	16	14	38.1	98	53	14	6	☺
DIN 6535 HB											

Ordering example for the grade WJ30RC: TC611-UNF1/4-W1-WJ30RC

WALTER
SELECT

●● Primary application ● Other application

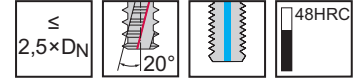
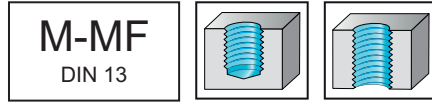
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

Multiple-row thread milling cutters

TC620 Supreme



- Universal multiple-row thread milling cutters
- For high cutting speeds and high feeds per tooth



	P	M	K	N	S	H	O
WB10TJ (TAM)	●●	●●	●●	●●	●●	●●	●

Tool		Designation	D _N	P mm	D _c mm	l ₂₁ mm	l _c mm	l ₄ mm	l ₁ mm	d ₁ h6 mm	Z	WB10TJ
 DIN 6535 HA		TC620-M4-A1E-	M 4	0.7	3.1	2.1	10.5	21	57	6	3	☺
		TC620-M5-A1E-	M 5	0.8	3.9	2.4	12.8	21	57	6	3	☺
		TC620-M6-A1E-	M 6	1	4.7	3	15	21	57	6	4	☺
		TC620-M8-A1E-	M 8	1.25	6.3	3.75	20	27	63	8	4	☺
		TC620-M10-A1E-	M 10	1.5	7.9	4.5	27	36	72	8	4	☺
		TC620-M12-A1E-	M 12	1.75	9.6	5.25	31.5	43	83	10	4	☺
		TC620-M14-A1E-	M 14	2	11.2	6	36	55	100	12	4	☺
		TC620-M16-A1E-	M 16	2	13.1	6	42	58	106	16	5	☺
		TC620-M20-A1E-	M 20	2.5	16.4	7.5	52.5	68	116	18	5	☺

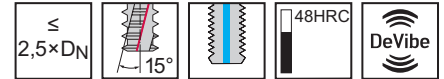
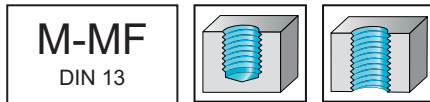
Ordering example for the grade WB10TJ: TC620-M10-A1E-WB10TJ

Multiple-row thread milling cutters

TC620 Supreme



- Universal multiple-row thread milling cutters
- For high cutting speeds and high feeds per tooth



	P	M	K	N	S	H	O
WB10TJ (TAM)	●●	●●	●●	●●	●●		●

Tool

	Designation	D _N	P mm	D _c mm	l ₂₁ mm	L _c mm	l ₄ mm	l ₁ mm	d ₁ h6 mm	Z	WB10TJ
	TC620-M8-W5E-	M 8	1.25	6.3	3.75	20	32	68	8	4	☺
	TC620-M10-W5E-	M 10	1.5	7.9	4.5	27	39	75	8	4	☺
	TC620-M12-W5E-	M 12	1.75	9.6	5.25	31.5	45	85	10	4	☺
	TC620-M14-W5E-	M 14	2	11.2	6	36	55	100	12	4	☺
	TC620-M16-W5E-	M 16	2	13.1	6	42	58	106	16	5	☺
	TC620-M18-W5E-	M 18	2.5	14.5	7.5	45	60	108	16	5	☺
	TC620-M20-W5E-	M 20	2.5	16.4	7.5	52.5	67	115	18	5	☺

DIN 6535 HB

Ordering example for the grade WB10TJ: TC620-M10-W5E-WB10TJ

**WALTER
SELECT**

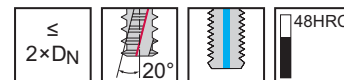
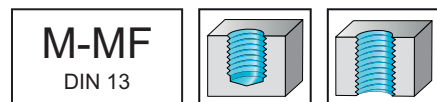
●● Primary application ● Other application
 Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

Multiple-row thread milling cutters

TC620 Supreme

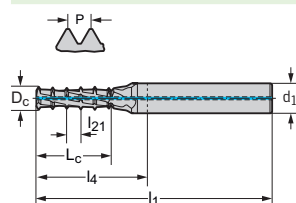


- Universal multiple-row thread milling cutters
- For high cutting speeds and high feeds per tooth



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●	●	●

Tool



DIN 6535 HA

Designation	D _N	P mm	D _c mm	l ₂₁ mm	L _c mm	l ₄ mm	l ₁ mm	d ₁ h6 mm	Z	WB10TJ
TC620-M4-A1D-	M 4	0.7	3.1	1.4	8.4	21	57	6	3	☺
TC620-M5-A1D-	M 5	0.8	3.9	1.6	10.4	21	57	6	3	☺
TC620-M6-A1D-	M 6	1	4.7	2	12	21	57	6	4	☺
TC620-M8-A1D-	M 8	1.25	6.3	2.5	16.3	27	63	8	4	☺
TC620-M10-A1D-	M 10	1.5	7.9	3	21	27	63	8	4	☺
TC620-M12-A1D-	M 12	1.75	9.6	3.5	24.5	32	72	10	4	☺
TC620-M14-A1D-	M 14	2	11.2	4	28	38	83	12	4	☺
TC620-M16-A1D-	M 16	2	13.1	4	32	44	92	16	5	☺
TC620-M20-A1D-	M 20	2.5	16.4	5	40	58	106	18	5	☺

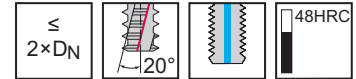
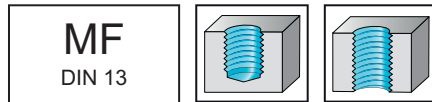
Ordering example for the grade WB10TJ: TC620-M10-A1D-WB10TJ

Multiple-row thread milling cutters

TC620 Supreme



- Universal multiple-row thread milling cutters
- For high cutting speeds and high feeds per tooth



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

Tool											WB10TJ
Designation	D _N	P mm	D _c mm	l ₂₁ mm	L _c mm	l ₄ mm	l ₁ mm	d ₁ h6 mm	Z		
TC620-M4X0.5-W1D-	MF 4X0.5	0.5	3.2	1	8	21	57	6	4	☺	
TC620-M6X0.75-W1D-	MF 6X0.75	0.75	4.9	1.5	12	21	57	6	4	☺	

DIN 6535 HB

Ordering example for the grade WB10TJ: TC620-M4X0.5-W1D-WB10TJ

C3

WALTER
SELECT

●● Primary application ● Other application

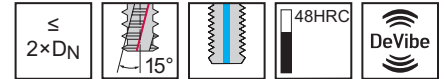
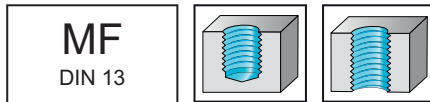
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

Multiple-row thread milling cutters

TC620 Supreme

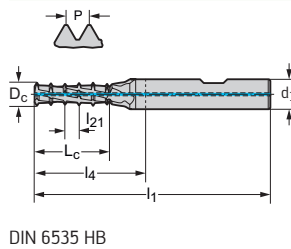


- Universal multiple-row thread milling cutters
- For high cutting speeds and high feeds per tooth



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●	●●	●

Tool



Designation	D _N	P mm	D _c mm	l ₂₁ mm	L _c mm	l ₄ mm	l ₁ mm	d ₁ h6 mm	Z	WB10TJ
TC620-M8X1-W5D-	MF 8X1	1	6.5	2	16	27	63	8	4	☺
TC620-M10X1.25W5D-	M10X1.25	1.25	8.2	2.5	20	32	72	10	5	☺
TC620-M10X1-W5D-	MF 10X1	1	8.4	2	20	32	72	10	5	☺
TC620-M12X1.5-W5D-	MF 12X1.5	1.5	9.8	3	24	38	78	10	5	☺
TC620-M12X1.25W5D-	MF 12X1.25	1.25	10	2.5	25	38	78	10	5	☺
TC620-M12X1-W5D-	MF 12X1	1	10.3	2	24	38	83	12	6	☺
TC620-M14X1.5-W5D-	MF 14X1.5	1.5	11.7	3	28.5	44	89	12	5	☺
TC620-M16X1.5-W5D-	MF 16X1.5	1.5	13.6	3	33	44	92	16	6	☺
TC620-M18X1.5-W5D-	MF 18X1.5	1.5	15.5	3	36	52	100	16	6	☺
TC620-M20X1.5-W5D-	MF 20X1.5	1.5	17.3	3	40.5	57	105	18	7	☺

Ordering example for the grade WB10TJ: TC620-M10X1-W5D-WB10TJ

**WALTER
SELECT**

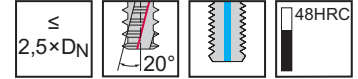
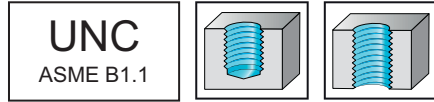
●● Primary application ● Other application
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

Multiple-row thread milling cutters

TC620 Supreme



- Universal multiple-row thread milling cutters
- For high cutting speeds and high feeds per tooth



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

Tool											
	Designation	D _N	Threads per inch	D _c mm	l ₂₁ mm	l _c mm	l ₄ mm	l ₁ mm	d ₁ h6 mm	Z	WB10TJ
	TC620-UNC8-W1E-	UNC #8-32	32	3.1	2.38	10.3	21	57	6	3	☺
	TC620-UNC10-W1E-	UNC #10-24	24	3.5	3.18	12.7	21	57	6	3	☺
	TC620-UNC1/4-W1E-	UNC 1/4-20	20	4.7	3.81	16.5	29	65	6	3	☺
DIN 6535 HB											

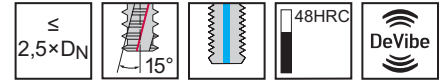
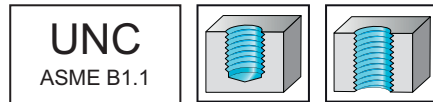
Ordering example for the grade WB10TJ: TC620-UNC1/4-W1E-WB10TJ

Multiple-row thread milling cutters

TC620 Supreme



- Universal multiple-row thread milling cutters
- For high cutting speeds and high feeds per tooth



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

Tool		Designation	D _N	Threads per inch	D _c mm	l ₂₁ mm	L _c mm	l ₄ mm	l ₁ mm	d ₁ h6 mm	Z	WB10TJ
		TC620-UNC5/16-W5E-	UNC 5/16-18	18	6.1	4.23	21.2	34	70	8	4	☺
		TC620-UNC3/8-W5E-	UNC 3/8-16	16	7.4	4.76	23.8	36	72	8	4	☺
		TC620-UNC1/2-W5E-	UNC 1/2-13	13	10.1	5.86	31.3	47	92	12	4	☺
		TC620-UNC5/8-W5E-	UNC 5/8-11	11	12.7	6.93	41.6	60	108	16	4	☺
		TC620-UNC3/4-W5E-	UNC 3/4-10	10	15.5	7.62	48.3	62	110	16	5	☺

DIN 6535 HB

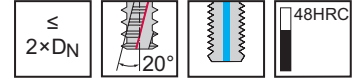
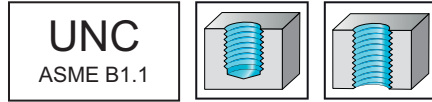
Ordering example for the grade WB10TJ: TC620-UNC1/2-W5E-WB10TJ

Multiple-row thread milling cutters

TC620 Supreme



- Universal multiple-row thread milling cutters
- For high cutting speeds and high feeds per tooth



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●	●	●

Tool		Designation	D _N	Threads per inch	D _c mm	l ₂₁ mm	L _c mm	l ₄ mm	l ₁ mm	d ₁ h6 mm	Z	WB10TJ
 DIN 6535 HA		TC620-UNC8-A1D-	UNC #8-32	32	3.1	1.59	8.7	21	57	6	3	☺
		TC620-UNC10-A1D-	UNC #10-24	24	3.5	2.12	10.6	21	57	6	3	☺
		TC620-UNC1/4-A1D-	UNC 1/4-20	20	4.7	2.54	12.7	21	57	6	3	☺
		TC620-UNC5/16-A1D-	UNC 5/16-18	18	6.1	2.82	16.9	27	63	8	4	☺
		TC620-UNC3/8-A1D-	UNC 3/8-16	16	7.4	3.18	19.1	27	63	8	4	☺
		TC620-UNC1/2-A1D-	UNC 1/2-13	13	10.1	3.91	25.4	38	83	12	4	☺
		TC620-UNC5/8-A1D-	UNC 5/8-11	11	12.7	4.62	32.3	44	92	16	4	☺
		TC620-UNC3/4-A1D-	UNC 3/4-10	10	15.5	5.08	38.1	56	104	16	5	☺
		TC620-UNC7/8-A1D-	UNC 7/8-9	9	18	5.64	45.2	67	115	18	5	☺

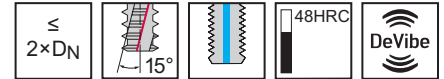
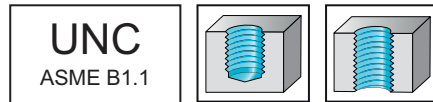
Ordering example for the grade WB10TJ: TC620-UNC1/2-A1D-WB10TJ

Multiple-row thread milling cutters

TC620 Supreme



- Universal multiple-row thread milling cutters
- For high cutting speeds and high feeds per tooth



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

Tool		Designation	D _N	Threads per inch	D _c mm	l ₂₁ mm	L _c mm	l ₄ mm	l ₁ mm	d ₁ h6 mm	Z	WB10TJ
		TC620-UNC5/16-W5D-	UNC 5/16-18	18	6.1	2.82	16.9	27	63	8	4	☺
		TC620-UNC3/8-W5D-	UNC 3/8-16	16	7.4	3.18	19.1	32	68	8	4	☺
		TC620-UNC1/2-W5D-	UNC 1/2-13	13	10.1	3.91	25.4	38	83	12	4	☺
		TC620-UNC5/8-W5D-	UNC 5/8-11	11	12.7	4.62	32.3	52	100	16	4	☺
		TC620-UNC3/4-W5D-	UNC 3/4-10	10	15.5	5.08	38.1	52	100	16	5	☺

DIN 6535 HB

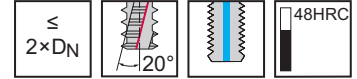
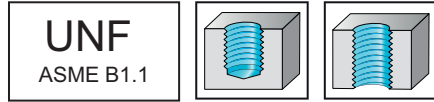
Ordering example for the grade WB10TJ: TC620-UNC1/2-W5D-WB10TJ

Multiple-row thread milling cutters

TC620 Supreme

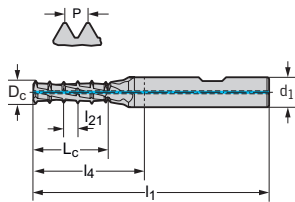


- Universal multiple-row thread milling cutters
- For high cutting speeds and high feeds per tooth



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

Tool											WB10TJ
Designation	D _N	Threads per inch	D _c mm	l ₂₁ mm	l _c mm	l ₄ mm	l ₁ mm	d ₁ h6 mm	Z		
TC620-UNF10-W1D-	UNF #10-32	32	3.7	1.59	10.3	21	57	6	3		
TC620-UNF1/4-W1D-	UNF 1/4-28	28	5.1	1.81	12.7	21	57	6	4		



DIN 6535 HB

Ordering example for the grade WB10TJ: TC620-UNF1/4-W1D-WB10TJ

C3

WALTER
SELECT

●● Primary application ● Other application

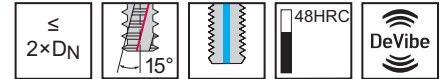
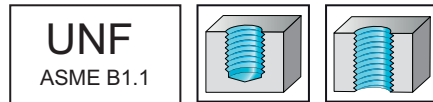
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Multiple-row thread milling cutters

TC620 Supreme



- Universal multiple-row thread milling cutters
- For high cutting speeds and high feeds per tooth



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

Tool		Designation	D _N	Threads per inch	D _c mm	l ₂₁ mm	L _c mm	l ₄ mm	l ₁ mm	d ₁ h6 mm	Z	WB10TJ
		TC620-UNF5/16-W5D-	UNF 5/16-24	24	6.4	2.12	15.9	27	63	8	4	☺
		TC620-UNF3/8-W5D-	UNF 3/8-24	24	7.9	2.12	19.1	31	67	8	5	☺
		TC620-UNF7/16-W5D-	UNF 7/16-20	20	9.2	2.54	22.9	32	72	10	5	☺
		TC620-UNF1/2-W5D-	UNF 1/2-20	20	10.7	2.54	25.4	38	83	12	5	☺
		TC620-UNF9/16-W5D-	UNF 9/16-18	18	12	2.82	29.6	45	90	12	5	☺
		TC620-UNF5/8-W5D-	UNF 5/8-18	18	13.5	2.82	32.5	48	96	16	6	☺
		TC620-UNF3/4-W5D-	UNF 3/4-16	16	16.4	3.18	38.1	56	104	18	6	☺
DIN 6535 HB												

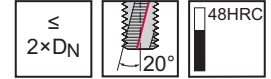
Ordering example for the grade WB10TJ: TC620-UNF1/2-W5D-WB10TJ

Solid carbide thread milling cutters

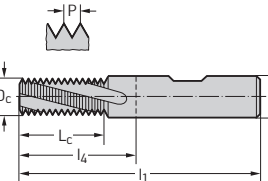
TME



– Universal thread milling cutter for external thread



	P	M	K	N	S	H	O
TICN	●●	●●	●●	●●	●●	●	●

Tool		Designation	D _N	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
	H5150106-M10X1	MF 10X1	10	16	72	32	10	4	
	H5150106-M12X1.5	MF 12X1.5	12	22.5	83	38	12	5	
	H5150106-M16X1	MF 16X1	16	30	92	44	16	6	
	H5150106-M16X1.25	MF 16X1.25	16	30	92	44	16	6	
	H5150106-M16X1.5	MF 16X1.5	16	30	92	44	16	6	
	H5150106-M16X2	MF 16X2	16	30	92	44	16	6	
DIN 6535 HB									

C3

WALTER
SELECT

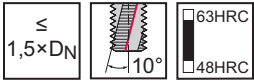
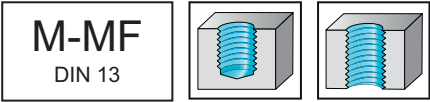
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide thread milling cutters

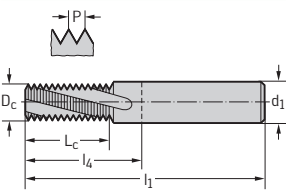
TMG HRC



– Thread milling cutters for hardened materials



	P	M	K	N	S	H	O
TAX	●●	●●	●●	●●	●●	●●	●●

Tool		Designation	D _N	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
		H5033008-M6	M 6	4.5	10	57	21	6	4
		H5033008-M8	M 8	6	12.5	57	21	6	5
		H5033008-M10	M 10	8	16.5	63	27	8	5
		H5033008-M12	M 12	9	19.3	72	32	10	5
		H5033008-M16	M 16	12	26	83	38	12	5
DIN 6535 HA									

C3

**WALTER
SELECT**

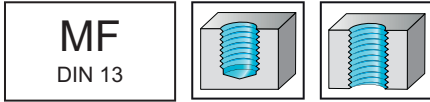
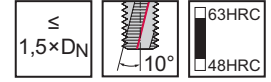
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide thread milling cutters

TMG HRC



– Thread milling cutters for hardened materials



	P	M	K	N	S	H	O
TAX	●●		●●		●	●●	●

Tool								
	Designation	D _N	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
	H5133008-M12X1	MF 12X1	10	20	72	32	10	5
	H5133008-M14X1.5	MF 14X1.5	12	27	83	38	12	6
DIN 6535 HA								

C3

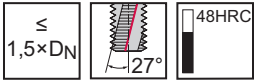
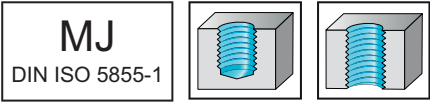
WALTER
SELECT

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide thread milling cutters
TMG Ni



– Thread milling cutters for nickel alloys



	P	M	K	N	S	H	O
TICN	●●	●●	●●	●●	●●	●●	●●

Tool								
	Designation	D _N	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
	H5036006-MJ4	MJ 4	3	6.3	54	18	6	3
	H5036006-MJ5	MJ 5	3.9	8	54	18	6	3
	H5036006-MJ6	MJ 6	4.8	9	54	20	6	3
	DIN 6535 HA							

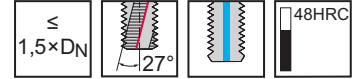
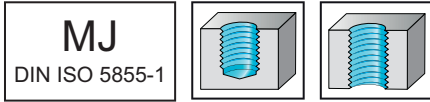
C3

Solid carbide thread milling cutters

TMG Ni

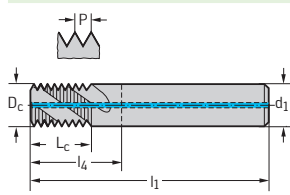


– Thread milling cutters for nickel alloys



	P	M	K	N	S	H	O
TICN	●●	●●	●●	●●	●●	●●	●●

Tool



DIN 6535 HA

Designation	D _N	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
H5036016-MJ8	MJ 8	6.3	12.5	58	22	8	4
H5036016-MJ10	MJ 10	7.5	15	58	22	8	4

C3

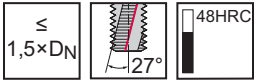
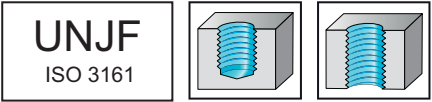
**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide thread milling cutters
TMG Ni



– Thread milling cutters for nickel alloys



	P	M	K	N	S	H	O
TICN	●●	●●	●●	●	●●		●

Tool									
	Designation	D _N	Threads per inch	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
	H5336006-UNJF10	UNJF #10-32	32	3.6	7.9	54	18	6	3
	H5336006-UNJF1/4	UNJF 1/4-28	28	4.8	10	54	18	6	3
DIN 6535 HA									

WALTER
SELECT

●● Primary application ● Other application

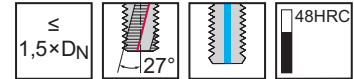
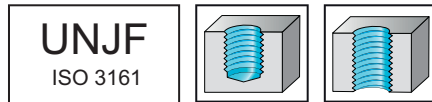
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

Solid carbide thread milling cutters

TMG Ni



– Thread milling cutters for nickel alloys



	P	M	K	N	S	H	O
TICN	●●	●●	●●	●●	●●	●●	●●

Tool	Designation	D _N	Threads per inch	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
	H5336016-UNJF5/16	UNJF 5/16-24	24	6.2	12.7	58	22	8	3
	H5336016-UNJF3/8	UNJF 3/8-24	24	8	14.8	58	22	8	3
	H5336016-UNJF7/16	UNJF 7/16-20	20	9.2	17.8	72	26	10	4
	H5336016-UNJF1/2	UNJF 1/2-20	20	10.5	19.1	73	28	12	4
DIN 6535 HA									

C3

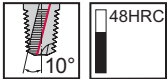
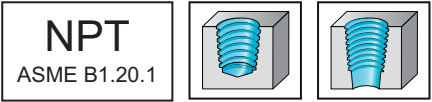
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●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

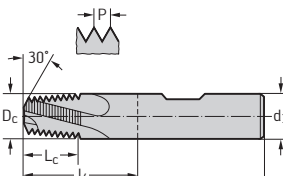
Solid carbide thread milling cutters
TMG



– Universal thread milling cutters



	P	M	K	N	S	H	O
TICN	●●	●●	●●	●●	●●		●

Tool		Designation	D _N	Threads per inch	D _C mm	L _C mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
	H5551106-NPT1/16	NPT 1/16-27	27	5.5	11.03	57	21	6	3	
	H5551106-NPT1/8	NPT 1/8-27	27	7.9	11.03	58	22	8	3	
	H5551106-NPT1/4-3/8	NPT 1/4-3/8-18	18	9.9	15.21	66	26	10	3	
	H5551106-NPT1/2-3/4	NPT 1/2-3/4-14	14	15.9	19.55	82	34	16	4	
	H5551106-NPT1-2	NPT 1-2-1/2		19.9	26.02	92	42	20	5	
DIN 6535 HB										

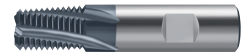
C3

WALTER
SELECT

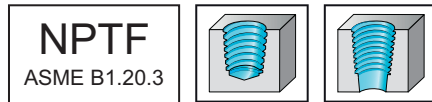
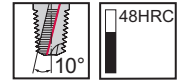
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide thread milling cutters

TMG



– Universal thread milling cutters



	P	M	K	N	S	H	O
TICN	●●	●●	●●	●●	●●	●●	●●

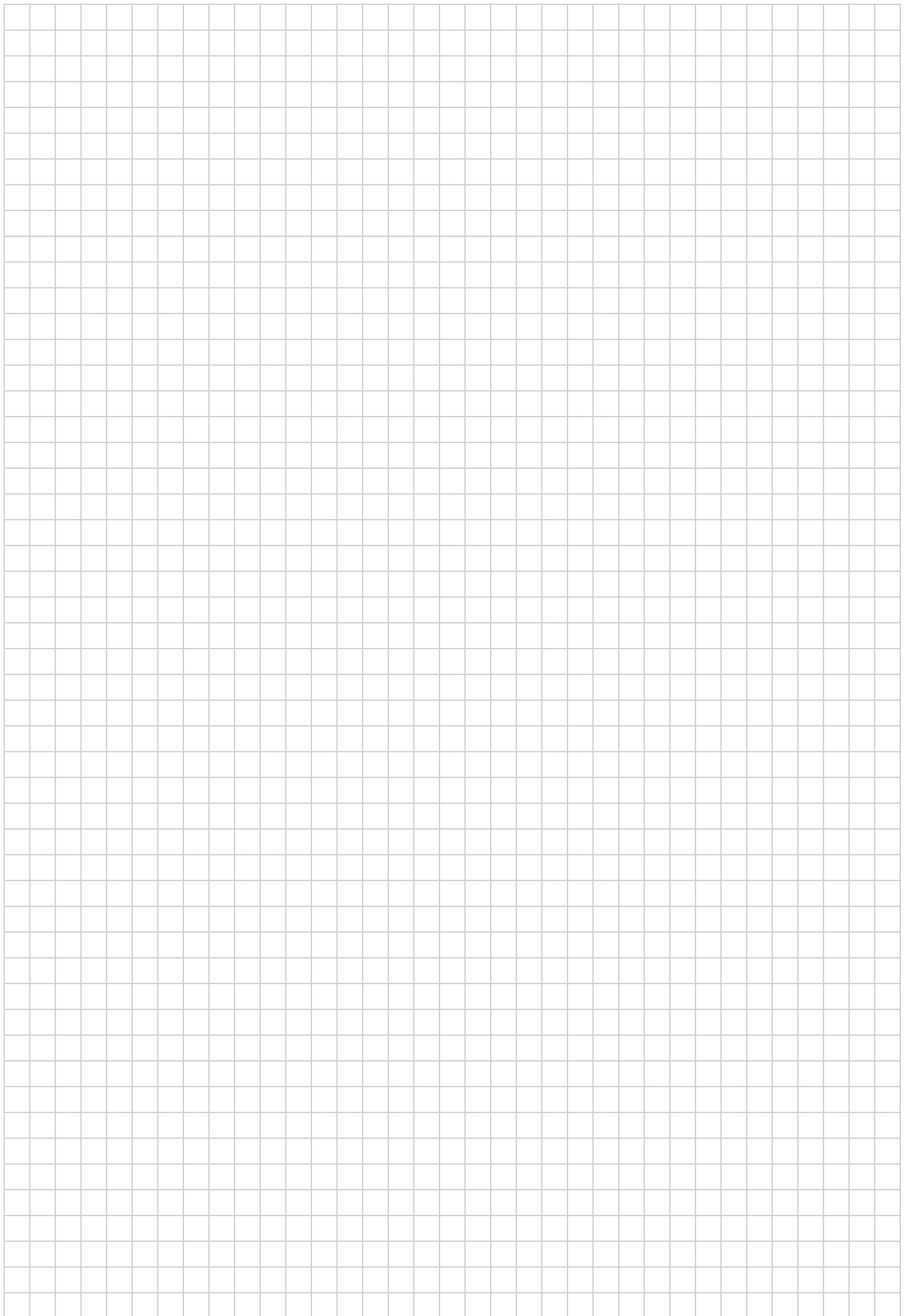
Tool	Designation	D _N	Threads per inch	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
	H5651106-NPTF1/16	NPTF 1/16-27	27	5.5	11.03	57	21	6	3
	H5651106-NPTF1/8	NPTF 1/8-27	27	7.9	11.03	58	22	8	3
	H5651106-NPTF1/4-3/8	NPTF 1/4-3/8-18	18	9.9	15.21	66	26	10	3
	H5651106-NPTF1/2-3/4	NPTF 1/2-3/4-14	14	15.9	19.55	82	34	16	4
	H5651106-NPTF1-2	NPTF 1-2-1/2		19.9	26.02	92	42	20	5

DIN 6535 HB

C3

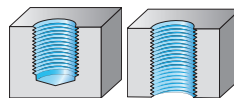
WALTER
SELECT

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions



Orbital thread milling cutters

Machining



Thread depth

 $2 \times D_N$
 $2 \times D_N$
 $2.5 \times D_N$
 $3 \times D_N$
 $4 \times D_N$


Designation

TC630 Supreme

TMO HRC

TC630 Supreme

TC630 Supreme

TC630 Supreme

Thread type

M

✓

✓

✓

✓

✓

MF

✓

✓

✓

✓

✓

UNC / UNF / UN-8

✓

G / Rc / Rp

MJ / UNJC / UNJF

NPT / NPTF

Pg / BSW / Tr

STI / Eg / Thread insert

✓

✓

✓

✓

✓

Tolerance

Coolant supply

External / axial

External

External

External / axial

axial

Chamfer form

Coating / grade

WB10RA / WB10TJ

TAX

WB10TJ

WB10TJ

WB10TJ

Cutting tool material

CARBIDE

CARBIDE

CARBIDE

CARBIDE

CARBIDE

P Steel

●●

●●

●●

●●

●●

M Stainless steel

●●

●●

●●

●●

●●

K Cast iron

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●●

●●

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N NF metals

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S Materials with difficult cutting properties

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Page in catalog

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TC630

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TC630

TC630

TC630

WALTER SELECT

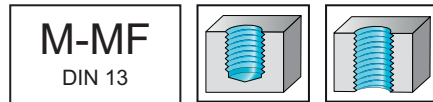
●● Primary application ● Other application

Solid carbide orbital thread mills

TC630 Supreme



– Universal orbital thread milling cutters



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

Tool		Designation	D _N	P mm	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
DIN 6535 HA		TC630-M1.6-A0D-	M 1.6	0.35	1.2	0.7	3.73	38	10	3	4	☹
		TC630-M1.8-A0D-	M 1.8	0.35	1.35	0.7	3.78	38	10	3	4	☹
		TC630-M2-A0D-	M 2	0.4	1.55	1.2	4.6	57	21	6	4	☹
		TC630-M2.2-A0D-	M 2.2	0.45	1.65	1.35	4.63	57	21	6	4	☹
		TC630-M2.5-A0D-	M 2.5	0.45	1.95	1.35	5.68	57	21	6	4	☹
		TC630-M3-A0D-	M 3	0.5	2.3	1.5	6.75	57	21	6	4	☹
		TC630-M3.5-A0D-	M 3.5	0.6	2.7	1.8	7.3	57	21	6	4	☹
		TC630-M4-A0D-	M 4	0.7	3.1	2.1	9.05	57	21	6	4	☹
		TC630-M4.5-A0D-	M 4.5	0.75	3.5	2.25	9.38	57	21	6	4	☹
		TC630-M5-A0D-	M 5	0.8	4	2.4	11.2	57	21	6	4	☹
		TC630-M6-A0D-	M 6	1	4.8	3	13.5	57	21	6	4	☹
		TC630-M8-A0D-	M 8	1.25	6.4	3.75	17.9	63	27	8	4	☹
		TC630-M10-A0D-	M 10	1.5	8.2	4.5	22.3	72	32	10	5	☹
		TC630-M12-A0D-	M 12	1.75	9.75	5.25	26.7	72	32	10	5	☹

Ordering example for the grade WB10TJ: TC630-M1.6-A0D-WB10TJ

C3

**WALTER
SELECT**

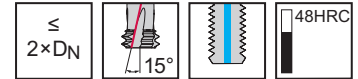
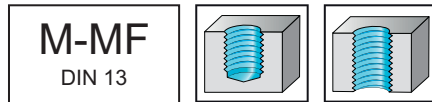
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

Solid carbide orbital thread mills

TC630 Supreme



– Universal orbital thread milling cutters



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●	●	●

Tool	Designation	D _N	P mm	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
 DIN 6535 HA	TC630-M5-A1D-	M 5	0.8	4	2.4	11.2	57	21	6	4	☹
	TC630-M6-A1D-	M 6	1	4.8	3	13.5	57	21	6	4	☹
	TC630-M8-A1D-	M 8	1.25	6.4	3.75	17.9	63	27	8	4	☹
	TC630-M10-A1D-	M 10	1.5	8.2	4.5	22.3	72	32	10	5	☹
	TC630-M12-A1D-	M 12	1.75	9.75	5.25	26.7	72	32	10	5	☹

Ordering example for the grade WB10TJ: TC630-M10-A1D-WB10TJ

C3

**WALTER
SELECT**

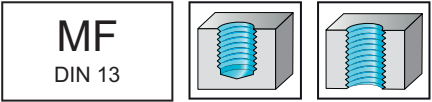
●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

Solid carbide orbital thread mills

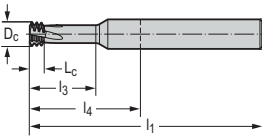
TC630 Supreme



– Universal orbital thread milling cutters



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

Tool		Designation	D _N	P mm	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
	DIN 6535 HA	TC630-M5X0.5-A0E-	M 5X0.5	0.5	4.3	1.5	12.75	57	21	6	4	☹
		TC630-M6X0.75-A0E-	M 6X0.75	0.75	5	2.25	15.38	57	21	6	4	☹
		TC630-M10X1-A0E-	M 10X1	1	8.55	3	25.5	72	32	10	5	☹
		TC630-M10X1.25A0E-	M 10X1.25	1.25	8.35	3.75	25.63	72	32	10	5	☹
		TC630-M14X1-A0E-	M 14X1	1	12	3	35.5	83	38	12	5	☹
		TC630-M14X1.5-A0E-	M 14X1.5	1.5	11.9	4.5	35.75	83	38	12	5	☹

Ordering example for the grade WB10TJ: TC630-M10X1-A0E-WB10TJ

WALTER
SELECT

●● Primary application ● Other application

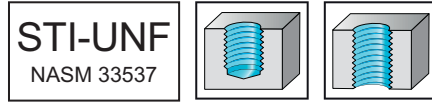
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

Solid carbide orbital thread mills

TC630 Supreme



- Specialist for aerospace industry
- Ideal for engine components



	P	M	K	N	S	H	O
WB10RA (TAX)	●	●●	●	●	●●		●

Tool		Designation	D _N -P	Threads per inch	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10RA
	TC630-SUNF10-A0D-	STIUNF #10-32		32	4.85	2.38	12.12	57	21	6	4	☹
	TC630-SUNF1/4-A0D-	STIUNF 1/4-28		28	6.3	2.72	15.52	63	27	8	4	☹
	TC630-SUNF5/16-A0D-	STIUNF 5/16-24		24	7.85	3.17	19.16	63	27	8	5	☹
	TC630-SUNF3/8-A0D-	STIUNF 3/8-24		24	9.35	3.17	22.33	72	32	10	5	☹

DIN 6535 HA

Ordering example for the grade WB10RA: TC630-SUNF1/4-A0D-WB10RA

C3

WALTER
SELECT

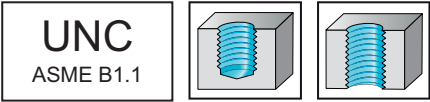
●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

Solid carbide orbital thread mills
TC630 Supreme



– Universal orbital thread milling cutters



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

Tool											
	Designation	D _N -P	Threads per inch	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
 DIN 6535 HA	TC630-UNC1-A0D-	UNC #1-64	64	1.4	0.79	3.91	38	10	3	4	☹
	TC630-UNC2-A0D-	UNC #2-56	56	1.6	1.36	4.59	57	21	6	4	☹
	TC630-UNC4-A0D-	UNC #4-40	40	2.1	1.91	6.7	57	21	6	4	☹
	TC630-UNC6-A0D-	UNC #6-32	32	2.6	2.38	8.3	57	21	6	4	☹
	TC630-UNC8-A0D-	UNC #8-32	32	3.25	2.38	8.73	57	21	6	4	☹
	TC630-UNC10-A0D-	UNC #10-24	24	3.55	3.18	11.3	57	21	6	4	☹

Ordering example for the grade WB10TJ: TC630-UNC1-A0D-WB10TJ

WALTER
SELECT

●● Primary application ● Other application

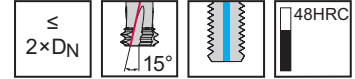
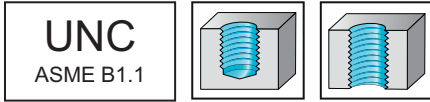
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

Solid carbide orbital thread mills

TC630 Supreme



– Universal orbital thread milling cutters



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

Tool

Designation	D _N -P	Threads per inch	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
TC630-UNC1/4-A1D-	UNC 1/4-20	20	4.85	3.81	14.7	57	21	6	4	☹
TC630-UNC5/16-A1D-	UNC 5/16-18	18	6.2	4.23	18.1	63	27	8	4	☹

DIN 6535 HA

Ordering example for the grade WB10TJ: TC630-UNC1/4-A1D-WB10TJ

C3

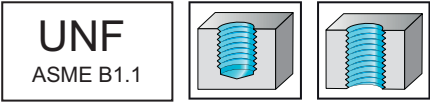
**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

Solid carbide orbital thread mills
TC630 Supreme



– Universal orbital thread milling cutters



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

Tool											
	Designation	D _N -P	Threads per inch	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
	TC630-UNF10-A0D-	UNF #10-32	32	3.85	2.38	10.9	57	21	6	4	
DIN 6535 HA											

Ordering example for the grade WB10TJ: TC630-UNF10-A0D-WB10TJ

WALTER
SELECT

●● Primary application ● Other application

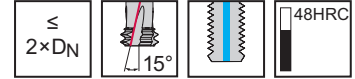
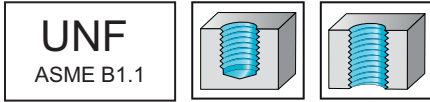
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide orbital thread mills

TC630 Supreme



– Universal orbital thread milling cutters



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

Tool

	Designation	D _N -P	Threads per inch	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
	TC630-UNF1/4-A1D-	UNF 1/4-28	28	5.25	2.72	14.1	57	21	6	4	☹
	TC630-UNF5/16-A1D-	UNF 5/16-24	24	6.55	3.18	17.5	63	27	8	4	☹
	TC630-UNF3/8-A1D-	UNF 3/8-24	24	8	3.18	20.7	63	27	8	5	☹

DIN 6535 HA

Ordering example for the grade WB10TJ: TC630-UNF1/4-A1D-WB10TJ

C3

**WALTER
SELECT**

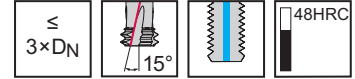
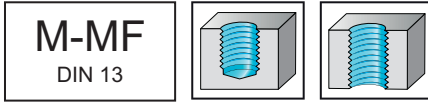
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

Solid carbide orbital thread mills

TC630 Supreme



– Universal orbital thread milling cutters



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

Tool

Designation	D _N	P mm	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
TC630-M5-A1F-	M 5	0.8	4	2.4	16.2	57	21	6	4	☹
TC630-M6-A1F-	M 6	1	4.8	3	19.5	57	22	6	4	☹
TC630-M8-A1F-	M 8	1.25	6.4	3.75	25.88	63	29	8	4	☹

DIN 6535 HA

Ordering example for the grade WB10TJ: TC630-M5-A1F-WB10TJ

C3

**WALTER
SELECT**

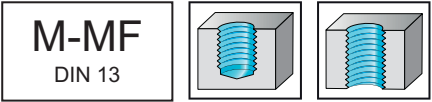
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

Solid carbide orbital thread mills

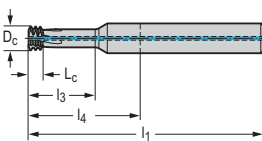
TC630 Supreme



- Universal orbital thread milling cutters
- Best running smoothness due to Walter DeVibe technology



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

Tool		Designation	D _N	P mm	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
	DIN 6535 HA	TC630-M8-A5F-	M 8	1.25	6.4	3.75	25.88	63	29	8	4	☹
		TC630-M10-A5F-	M 10	1.5	8.2	4.5	30.75	72	34	10	5	☹
		TC630-M12-A5F-	M 12	1.75	9.75	5.25	36.88	80	40	10	5	☹
		TC630-M14-A5F-	M 14	2	11.4	6	43	92	47	12	5	☹
		TC630-M16-A5F-	M 16	2	13.3	6	49	102	54	16	6	☹
		TC630-M18-A5F-	M 18	2.5	14.75	7.5	55.25	108	60	16	6	☹

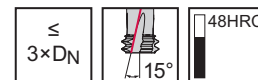
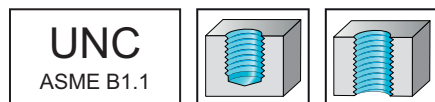
Ordering example for the grade WB10TJ: TC630-M10-A5F-WB10TJ

Solid carbide orbital thread mills

TC630 Supreme



– Universal orbital thread milling cutters



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●	●●	●●

Tool	Designation	D _N -P	Threads per inch	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
 DIN 6535 HA	TC630-UNC1-A0F-	UNC #1-64	64	1.4	0.79	5.76	38	10	3	4	●●
	TC630-UNC2-A0F-	UNC #2-56	56	1.6	1.36	7.25	57	21	6	4	●●
	TC630-UNC3-A0F-	UNC #3-48	48	1.85	1.59	7.81	57	21	6	4	●●
	TC630-UNC4-A0F-	UNC #4-40	40	2.1	1.91	9.5	57	21	6	4	●●
	TC630-UNC6-A0F-	UNC #6-32	32	2.6	2.38	11.75	57	21	6	4	●●
	TC630-UNC8-A0F-	UNC #8-32	32	3.25	2.38	13.7	57	21	6	4	●●
	TC630-UNC10-A0F-	UNC #10-24	24	3.55	3.18	16.1	57	21	6	4	●●
	TC630-UNC1/4-A0F-	UNC 1/4-20	20	4.85	3.81	21	57	24	6	4	●●
	TC630-UNC5/16-A0F-	UNC 5/16-18	18	6.2	4.23	25.95	63	29	8	4	●●

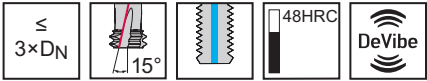
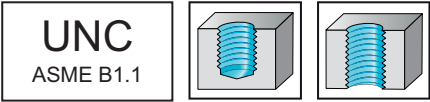
Ordering example for the grade WB10TJ: TC630-UNC1-A0F-WB10TJ

Solid carbide orbital thread mills

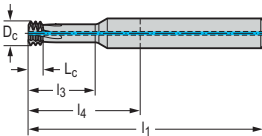
TC630 Supreme



- Universal orbital thread milling cutters
- Best running smoothness due to Walter DeVibe technology



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

Tool											
	Designation	D _N -P	Threads per inch	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
	TC630-UNC5/16-A5F-	UNC 5/16-18	18	6.2	4.23	25.95	63	29	8	4	☹
	TC630-UNC3/8-A5F-	UNC 3/8-16	16	7.55	4.76	29.37	68	32	8	5	☹
	TC630-UNC1/2-A5F-	UNC 1/2-13	13	10.25	5.86	39.08	89	44	12	5	☹
	TC630-UNC5/8-A5F-	UNC 5/8-11	11	12.9	6.93	48.78	103	55	16	5	☹
	TC630-UNC3/4-A5F-	UNC 3/4-10	10	15.7	7.62	58.42	110	62	16	6	☹
DIN 6535 HA											

Ordering example for the grade WB10TJ: TC630-UNC1/2-A5F-WB10TJ

WALTER
SELECT

●● Primary application ● Other application

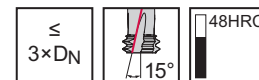
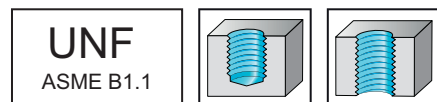
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

Solid carbide orbital thread mills

TC630 Supreme



– Universal orbital thread milling cutters



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

Tool	Designation	D _N -P	Threads per inch	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
 DIN 6535 HA	TC630-UNF1-A0F-	UNF #1-72	72	1.4	0.71	5.74	38	10	3	4	☹
	TC630-UNF5-A0F-	UNF #5-44	44	2.45	1.73	9.82	57	21	6	4	☹
	TC630-UNF6-A0F-	UNF #6-40	40	2.75	1.91	11.5	57	21	6	4	☹
	TC630-UNF8-A0F-	UNF #8-36	36	3.25	2.12	12.85	57	21	6	4	☹
	TC630-UNF10-A0F-	UNF #10-32	32	3.85	2.38	15.7	57	21	6	4	☹
	TC630-UNF1/4-A0F-	UNF 1/4-28	28	5.25	2.72	20.45	57	22	6	4	☹
	TC630-UNF5/16-A0F-	UNF 5/16-24	24	6.55	3.18	25.4	63	28	8	4	☹

Ordering example for the grade WB10TJ: TC630-UNF1-A0F-WB10TJ

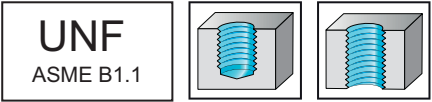
WALTER
SELECT

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

Solid carbide orbital thread mills
TC630 Supreme



- Universal orbital thread milling cutters
- Best running smoothness due to Walter DeVibe technology



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

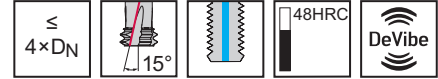
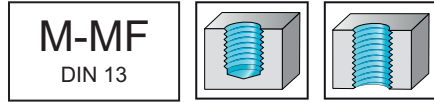
Tool											
	Designation	D _N -P	Threads per inch	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
	TC630-UNF7/16-A5F-	UNF 7/16-20	20	9.4	3.81	33.98	77	37	10	5	☹
	TC630-UNF9/16-A5F-	UNF 9/16-18	18	12	4.23	43.57	91	46	12	5	☹
	TC630-UNF3/4-A5F-	UNF 3/4-16	16	16.6	4.76	57.95	110	62	18	6	☹
DIN 6535 HA											
Ordering example for the grade WB10TJ: TC630-UNF3/4-A5F-WB10TJ											

Solid carbide orbital thread mills

TC630 Supreme



- Universal orbital thread milling cutters
- Best running smoothness due to Walter DeVibe technology



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

Tool		Designation	D _N	P mm	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
		TC630-M8-A5H-	M 8	1.25	6.4	3.75	32.63	72	36	8	4	☹
		TC630-M10-A5H-	M 10	1.5	8.2	4.5	40.75	85	45	10	5	☹
		TC630-M12-A5H-	M 12	1.75	9.75	5.25	48.88	92	52	10	5	☹
		TC630-M16-A5H-	M 16	2	13.3	6	65	115	70	16	6	☹

DIN 6535 HA

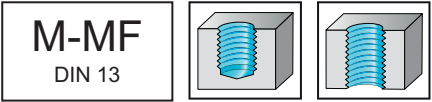
Ordering example for the grade WB10TJ: TC630-M10-A5H-WB10TJ

Solid carbide orbital thread mills

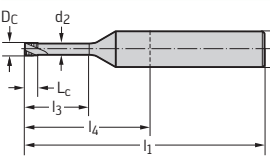
TMO HRC



– Orbital thread milling cutters for hardened materials

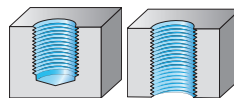


	P	M	K	N	S	H	O
TAX	●●		●●		●	●●	●

Tool		P mm	D _c mm	L _c mm	l ₃ mm	d ₂ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
	Designation									
	H5083008-M2	0.4	1.55	0.6	4.6	0.98	57	21	6	3
	H5083008-M2.5	0.45	1.95	0.68	5.675	1.3	57	21	6	3
	H5083008-M3	0.5	2.3	0.75	6.75	1.6	57	21	6	3
	H5083008-M4	0.7	3.1	1.05	9.05	2.1	57	21	6	3
	H5083008-M5	0.8	4	1.2	11.2	2.9	57	21	6	4
DIN 6535 HA	H5083008-M6	1	4.8	1.5	13.5	3.4	57	21	6	4

Thread milling cutters with indexable insert

Machining



Thread depth

 $1.5 \times D_N$
 $2 \times D_N$
 $2.5 \times D_N$
 $2.5 \times D_N$
 $3 \times D_N$


Designation

T2710

T2711

T2712

T2712

T2713

Thread type

M

✓

✓

✓

✓

✓

MF

✓

✓

✓

✓

✓

UNC / UNF / UN-8

✓

✓

✓

✓

✓

G / Rc / Rp

✓

✓

✓

MJ / UNJC / UNJF

NPT / NPTF

Pg / BSW / Tr

STI / Eg / Thread insert

✓

✓

✓

✓

✓

Tolerance

Coolant supply

radial

radial

radial

radial

radial

Chamfer form

Coating / grade

Cutting tool material

Stahl

Stahl

Stahl

Stahl

Stahl

P Steel

●●

●●

●●

●●

●●

M Stainless steel

●●

●●

●●

●●

●●

K Cast iron

●●

●●

●●

●●

●●

N NF metals

●

●

●

●

●

S Materials with difficult cutting properties

●●

●●

●●

●●

●●

H Hard materials

●

●

●

●

●

O Other

●

●

●

●

●

Page in catalog

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C 432

C 440

C 436

C 444

QR code


www.walter-tools.com/woc/

T2710

T2711

T2712

T2712

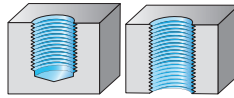
T2713

WALTER SELECT

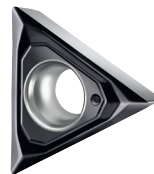
●● Primary application ● Other application

Thread milling cutters with indexable insert

Machining



Thread depth

 $3 \times D_N$ 

Designation

T2713

Tiger-tec® Silver

Thread type

M

✓

MF

✓

UNC / UNF / UN-8

✓

G / Rc / Rp

✓

✓

MJ / UNJC / UNJF

NPT / NPTF

Pg / BSW / Tr

STI / Eg / Thread insert

✓

Tolerance

Coolant supply

radial

Chamfer form

Coating / grade

WSM37S

Cutting tool material

Stahl

P Steel

●●

●●

M Stainless steel

●●

●●

K Cast iron

●●

●●

N NF metals

●

●

S Materials with difficult cutting properties

●●

●●

H Hard materials

●

●

O Other

●

Page in catalog

C 444

C 446

QR code


www.walter-tools.com/woc/

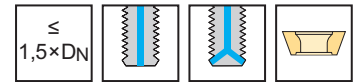
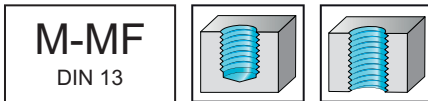
T2713

Indexable insert thread milling cutter

T2710



- Universal indexable insert thread milling cutter
- Radius correction values: Walter GPS/Technical information



	P	M	K	N	S	H	O
T2710	●	●	●	●	●	●	●

Tool

	Designation	D _N	P _{max} mm	D _c mm	l ₂₁ mm	l ₃ mm	l ₁ mm	d ₁ mm	Z	Number of cutting edges	Type
 DIN 1835 B	T2710-17-W16-3-06-2-15	M 20	2.5	16.5	15	33	88	16	3	6	P26300-06 ..
	T2710-19-W20-3-06-3-12	M 24	3	19	12	39.1	98	20	3	9	P26300-06 ..
 DIN 1835 B	T2710-24-W25-3-09-3-14	M 30	3.5	24	14	49.5	117	25	3	9	P26300-09 ..
	T2710-29-W32-3-09-3-16	M 36	4	29	16	58.5	131	32	3	9	P26300-11 ..
	T2710-35-W32-3-11-3-18	M 42	4.5	35	18	68.5	139	32	3	9	P26300-11 ..
	T2710-40-W40-3-14-3-20	M 48	5	40	20	79	163	40	3	9	P26300-14 ..
	T2710-44-W40-3-14-3-22	M 56	5.5	44	22	91	174	40	3	9	P26300-14 ..
	T2710-52-W40-4-14-3-24	M 64	6	52	24	103	185	40	4	12	P26300-14 ..

Adjustable coolant supply: remove front coolant screw for blind hole machining
 Bodies and assembly parts are included in the scope of delivery

Assembly parts

	D _c [mm]	16.5–19	24–29	35	40–52
	Coolant screw Tightening torque	FS2111 (T7IP) 8 in lbs	FS2061 (T7IP) 8 in lbs	FS1457 (T9IP) 18 in lbs	FS2147 (T6IP) 5 in lbs

Accessories

	D _c [mm]	16.5–19	24–35	40–52
	Torque screwdriver, analog	FS2001	FS2003	FS2001
	Torque screwdriver, digital		FS2248	
	Interchangeable blade	FS2011 (T7IP)	FS2013 (T9IP)	FS2085 (T6IP)
	Screwdriver	FS2088 (T7IP)	FS1484 (T9IP)	FS2086 (T6IP)

Indexable inserts

	Designation	Size	r mm	Pitch (P) mm	Pitch (P) (TPI) in	l mm	Number of cutting edges	P	M	K	N	S	H
								HC	HC	HC	HC	HC	HC
	P26300-0601-D61	06	0.1	1.40–2.90	9–18	6.73	3						
	P26300-0602-D61	06	0.2	3.00–3.20	8	6.58	3						
	P26300-0901-D61	09	0.1	1.40–2.90	9–18	9.48	3						
	P26300-0902-D61	09	0.2	3.00–4.30	6–8	9.34	3						
	P26300-1101-D61	11	0.1	1.40–2.90	9–18	10.85	3						
	P26300-1102-D61	11	0.2	3.00–4.50	6–8	10.71	3						
	P26300-1401-D61	14	0.1	1.40–2.90	9–18	13.87	3						
	P26300-1402-D61	14	0.2	3.00–5.20	5–8	13.72	3						
	P26300-1404-D61	14	0.4	5.50–6.40	4–5	13.43	3						
	P26300-0601-D67	06	0.1	1.40–2.90	9–18	6.73	3						
	P26300-0602-D67	06	0.2	3.00–3.20	8	6.58	3						
	P26300-0901-D67	09	0.1	1.40–2.90	9–18	9.48	3						
	P26300-0902-D67	09	0.2	3.00–4.30	6–8	9.34	3						
	P26300-1102-D67	11	0.2	3.00–4.50	6–8	10.71	3						
	P26300-1401-D67	14	0.1	1.40–2.90	9–18	13.87	3						
	P26300-1402-D67	14	0.2	3.00–5.20	5–8	13.72	3						
	P26300-1404-D67	14	0.4	5.50–6.40	4–5	13.43	3						

HC = Coated Carbide

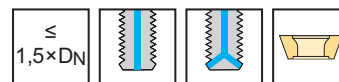
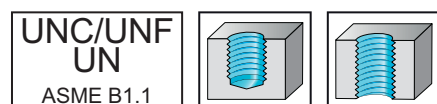
C3

Indexable insert thread milling cutter

T2710



- Universal indexable insert thread milling cutter
- Radius correction values: Walter GPS/Technical information



	P	M	K	N	S	H	O
T2710	●	●	●	●	●	●	●

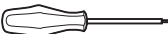
Tool	Designation	D _N	P _{max} TPI in	D _c mm	l ₂₁ mm	l ₃ mm	l ₁ mm	d ₁ mm	Z	Number of cutting edges	Type
 DIN 1835 B	T2710-18-W16-3-06-2-11.3	UNC 7/8-9	9	18	11.3	36.5	92	16	3	6	P26300-06 ..
	T2710-20-W20-3-06-3-12.7	UNC 1-8	8	20	12.7	41.1	100	20	3	9	P26300-06 ..
 DIN 1835 B	T2710-26-W25-3-09-3-12.7	UN 1.1/4-8	8	26	12.7	52.2	119	25	3	9	P26300-09 ..
	T2710-31-W32-3-09-3-19.1	UN 1.1/2-8	8	31	19.1	63.7	135	32	3	9	P26300-09 ..
	T2710-43-W40-4-09-3-25.4	UN 2-6	6	43	25.4	80.7	160	40	4	12	P26300-09 ..

Adjustable coolant supply: remove front coolant screw for blind hole machining
Bodies and assembly parts are included in the scope of delivery

Assembly parts

	D _c [mm]	18–20	26–43
	Coolant screw Tightening torque	FS2147 (T6IP) 5 in lbs	FS2111 (T7IP) 8 in lbs

Accessories

	D _c [mm]	18–20	26–43
	Torque screwdriver, analog	FS2001	FS2001
	Interchangeable blade	FS2085 (T6IP)	FS2011 (T7IP)
	Screwdriver	FS2086 (T6IP)	FS2088 (T7IP)

Indexable inserts

								P	M	K	N	S	H
								HC	HC	HC	HC	HC	HC
								WSM37S	WSM37S	WSM37S	WSM37S	WSM37S	WSM37S
	Designation	Size	r mm	Pitch (P) mm	Pitch (P) (TPI) in	l mm	Number of cutting edges						
	P26300-0601-D61	06	0.1	1.40–2.90	9–18	6.73	3						
	P26300-0602-D61	06	0.2	3.00–3.20	8	6.58	3						
	P26300-0901-D61	09	0.1	1.40–2.90	9–18	9.48	3						
	P26300-0902-D61	09	0.2	3.00–4.30	6–8	9.34	3						
	P26300-0601-D67	06	0.1	1.40–2.90	9–18	6.73	3						
	P26300-0602-D67	06	0.2	3.00–3.20	8	6.58	3						
	P26300-0901-D67	09	0.1	1.40–2.90	9–18	9.48	3						
	P26300-0902-D67	09	0.2	3.00–4.30	6–8	9.34	3						

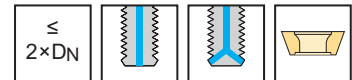
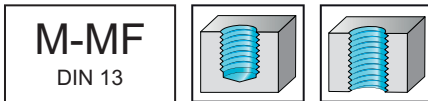
HC = Coated Carbide

Indexable insert thread milling cutter

T2711



- Universal indexable insert thread milling cutter
- Radius correction values: Walter GPS/Technical information



	P	M	K	N	S	H	O
T2711	●	●	●	●	●	●	●

Tool

Designation	D _N	P _{max} mm	D _c mm	l ₂₁ mm	l ₃ mm	l ₁ mm	d ₁ mm	Z	Number of cutting edges	Type
T2711-17-W16-3-06-2-20	M 20	2.5	16.5	20	43	98	16	3	6	P26300-06 ..
T2711-19-W20-3-06-2-24	M 24	3	19	24	51	110	20	3	6	P26300-09 ..
T2711-24-W25-3-09-2-31.5	M 30	3.5	24	31.5	64.5	132	25	3	6	P26300-14 ..
T2711-52-W40-4-14-2-60	M 64	6	52	60	135	217	40	4	8	P26300-14 ..
T2711-29-W32-3-09-3-24	M 36	4	29	24	72.1	149	32	3	9	P26300-09 ..
T2711-35-W32-3-11-3-27	M 42	4.5	35	27	89.5	160	32	3	9	P26300-11 ..
T2711-40-W40-3-14-3-30	M 48	5	40	30	103	187	40	3	9	P26300-14 ..
T2711-44-W40-3-14-3-33	M 56	5.5	44	33	119	202	40	3	9	P26300-14 ..

Adjustable coolant supply: remove front coolant screw for blind hole machining
Bodies and assembly parts are included in the scope of delivery

Assembly parts

	D _c [mm]	16.5–19	24–29	35	40–52
	Coolant screw Tightening torque	FS2111 (T7IP) 8 in lbs	FS2061 (T7IP) 8 in lbs	FS1457 (T9IP) 18 in lbs	FS2147 (T6IP) 5 in lbs

Accessories

	D _c [mm]	16.5–19	24–35	40–52
	Torque screwdriver, analog	FS2001	FS2003	FS2001
	Torque screwdriver, digital		FS2248	
	Interchangeable blade	FS2011 (T7IP)	FS2013 (T9IP)	FS2085 (T6IP)
	Screwdriver	FS2088 (T7IP)	FS1484 (T9IP)	FS2086 (T6IP)

Indexable inserts

	Designation	Size	r mm	Pitch (P) mm	Pitch (P) (TPI) in	l mm	Number of cutting edges	P	M	K	N	S	H
								HC	HC	HC	HC	HC	HC
	P26300-0601-D61	06	0.1	1.40–2.90	9–18	6.73	3						
	P26300-0602-D61	06	0.2	3.00–3.20	8	6.58	3						
	P26300-0901-D61	09	0.1	1.40–2.90	9–18	9.48	3						
	P26300-0902-D61	09	0.2	3.00–4.30	6–8	9.34	3						
	P26300-1401-D61	14	0.1	1.40–2.90	9–18	13.87	3						
	P26300-1402-D61	14	0.2	3.00–5.20	5–8	13.72	3						
	P26300-1404-D61	14	0.4	5.50–6.40	4–5	13.43	3						
	P26300-1101-D61	11	0.1	1.40–2.90	9–18	10.85	3						
	P26300-1102-D61	11	0.2	3.00–4.50	6–8	10.71	3						
	P26300-0601-D67	06	0.1	1.40–2.90	9–18	6.73	3						
	P26300-0602-D67	06	0.2	3.00–3.20	8	6.58	3						
	P26300-0901-D67	09	0.1	1.40–2.90	9–18	9.48	3						
	P26300-0902-D67	09	0.2	3.00–4.30	6–8	9.34	3						
	P26300-1401-D67	14	0.1	1.40–2.90	9–18	13.87	3						
	P26300-1402-D67	14	0.2	3.00–5.20	5–8	13.72	3						
	P26300-1404-D67	14	0.4	5.50–6.40	4–5	13.43	3						
	P26300-1102-D67	11	0.2	3.00–4.50	6–8	10.71	3						

HC = Coated Carbide

C3

WALTER SELECT

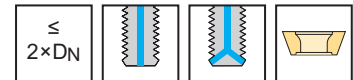
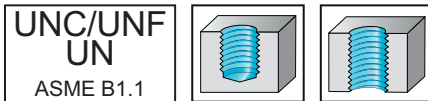
Stability of machine, workpiece and clamping arrangement → Very good =  → Good =  → Moderate = 

Indexable insert thread milling cutter

T2711



- Universal indexable insert thread milling cutter
- Radius correction values: Walter GPS/Technical information



	P	M	K	N	S	H	O
T2711	●	●	●	●	●	●	●

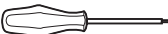
Tool	Designation	D _N	P _{max} T- Pl in	D _c mm	l ₂₁ mm	l ₃ mm	l ₁ mm	d ₁ mm	Z	Number of cutting edges	Type
 DIN 1835 B	T2711-18-W16-3-06-2-25.4	UNC 7/8-9	9	18	25.4	47.5	103	16	3	6	P26300-06 ..
	T2711-20-W20-3-06-2-25.4	UNC 1-8	8	20	25.4	53.9	113	20	3	6	P26300-09 ..
	T2711-26-W25-3-09-2-32.7	UNC 1.1/4-7	7	26	32.7	68	135	25	3	6	P26300-09 ..
 DIN 1835 B	T2711-31-W32-3-09-3-25.4	UNC 1.1/2-6	6	31	25.4	80.7	153	32	3	9	P26300-09 ..

Adjustable coolant supply: remove front coolant screw for blind hole machining
Bodies and assembly parts are included in the scope of delivery

Assembly parts

	D _c [mm]	18–20	26–31
	Coolant screw Tightening torque	FS2147 (T6IP) 5 in lbs	FS2111 (T7IP) 8 in lbs

Accessories

	D _c [mm]	18–20	26–31
	Torque screwdriver, analog	FS2001	FS2001
	Interchangeable blade	FS2085 (T6IP)	FS2011 (T7IP)
	Screwdriver	FS2086 (T6IP)	FS2088 (T7IP)

Indexable inserts

								P	M	K	N	S	H
								HC	HC	HC	HC	HC	HC
								WSM37S	WSM37S	WSM37S	WSM37S	WSM37S	WSM37S
	Designation	Size	r mm	Pitch (P) mm	Pitch (P) (TPI) in	l mm	Number of cutting edges						
	P26300-0601-D61	06	0.1	1.40–2.90	9–18	6.73	3						
	P26300-0602-D61	06	0.2	3.00–3.20	8	6.58	3						
	P26300-0901-D61	09	0.1	1.40–2.90	9–18	9.48	3						
	P26300-0902-D61	09	0.2	3.00–4.30	6–8	9.34	3						
	P26300-0601-D67	06	0.1	1.40–2.90	9–18	6.73	3						
	P26300-0602-D67	06	0.2	3.00–3.20	8	6.58	3						
	P26300-0901-D67	09	0.1	1.40–2.90	9–18	9.48	3						
	P26300-0902-D67	09	0.2	3.00–4.30	6–8	9.34	3						

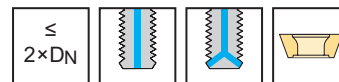
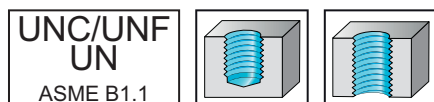
HC = Coated Carbide

Indexable insert thread milling cutter

T2711 / T2712



- Universal indexable insert thread milling cutter
- Radius correction values: Walter GPS/Technical information



	P	M	K	N	S	H	O
T2711	●	●	●	●	●	●	●
T2712	●	●	●	●	●	●	●

Tool

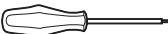
Designation	D _N	P _{max} TPI in	D _c inch	l ₂₁ inch	l ₃ inch	l ₁ inch	d ₁ inch	Z	Number of cutting edges	Type
T2711.20-W19-3-06-2-25.4	UNC 1	8	0.787	1.000	2.122	4.461	0.750	3	6	P26300-06 ..
T2711.26-W26-3-09-2-32.7	UNC 1.1/4-7	7	1.024	1.286	2.677	5.299	1.000	3	6	P26300-09 ..
T2711.31-W31-3-09-3-25.4	UNC 1.1/2-6	6	1.22	1.000	3.177	5.892	1.250	3	9	P26300-09 ..
T2712.20-W19-3-06	UNC 1	8	0.787		2.618	4.953	0.750	3	3	P26300-06 ..
T2712.23-W26-3-09	UNC 1 1/8	7	0.886		2.992	5.675	1.000	3	3	P26300-09 ..
T2712.28-W31-3-09	UNC 1 3/8	6	1.083		3.622	6.482	1.250	3	3	P26300-09 ..

Adjustable coolant supply: remove front coolant screw for blind hole machining
Bodies and assembly parts are included in the scope of delivery

Assembly parts

	D _c [inch]	0.79	0.89–1.22
	Coolant screw Tightening torque	FS2147 (T6IP) 5 in lbs	FS2111 (T7IP) 8 in lbs

Accessories

	D _c [inch]	0.79	0.89–1.22
	Torque screwdriver, analog	FS2002	FS2002
	Interchangeable blade	FS2085 (T6IP)	FS2011 (T7IP)
	Screwdriver	FS2086 (T6IP)	FS2088 (T7IP)

Indexable inserts

								P	M	K	N	S	H
								HC	HC	HC	HC	HC	HC
								WSM37S	WSM37S	WSM37S	WSM37S	WSM37S	WSM37S
	Designation	Size	r mm	Pitch (P) mm	Pitch (P) (TPI) in	l mm	Number of cutting edges						
	P26300-0601-D61	06	0.1	1.40–2.90	9–18	6.73	3						
	P26300-0602-D61	06	0.2	3.00–3.20	8	6.58	3						
	P26300-0901-D61	09	0.1	1.40–2.90	9–18	9.48	3						
	P26300-0902-D61	09	0.2	3.00–4.30	6–8	9.34	3						
	P26300-0601-D67	06	0.1	1.40–2.90	9–18	6.73	3						
	P26300-0602-D67	06	0.2	3.00–3.20	8	6.58	3						
	P26300-0901-D67	09	0.1	1.40–2.90	9–18	9.48	3						
	P26300-0902-D67	09	0.2	3.00–4.30	6–8	9.34	3						
	P26310-09G11-D61	09	0.2	2.30	11	9.34	3						

HC = Coated Carbide

Indexable insert thread milling cutter

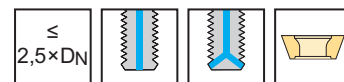
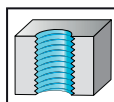
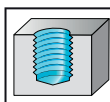
T2712



- Universal indexable insert thread milling cutter
- Radius correction values: Walter GPS/Technical information

M-MF
DIN 13

G (BSP)
DIN EN ISO 228



	P	M	K	N	S	H	O
T2712	●	●	●	●	●	●	●

Tool

	Designation	D _N	P _{max} mm	D _c mm	l ₂₁ mm	L _c mm	l ₃ mm	l ₁ mm	d ₁ mm	Z	Number of cutting edges	Type
 DIN 1835 B	T2712-17-W16-3-06	M 20	2.5	16.5			53	108	16	3	3	P26300-06 ..
	T2712-19-W20-3-06	M 24	3	19			63	123	20	3	3	
	T2712-24-W25-3-09	M 30	3.5	24			79.5	148	25	3	3	P26300-09 ..
	T2712-29-W32-3-09	M 36	4	29			94.5	167	32	3	3	
	T2712-35-W32-3-11	M 42	4.5	35			110.5	181	32	3	3	P26300-11 ..
	T2712-40-W40-3-14	M 48	5	40			127	211	40	3	3	P26300-14 ..
	T2712-44-W40-3-14	M 56	5.5	44			147	230	40	3	3	
 DIN 1835 B	T2712-52-W40-4-14	M 64	6	52			167	249	40	4	4	
	T2712-24-W25-3-09-2-31.5	M 30	3.5	24	31.5	63	79.5	147	25	3	6	P26300-09 ..
	T2712-29-W32-3-09-2-36	M 36	4	29	36	72	94.5	167	32	3	6	
	T2712-35-W32-3-11-2-40.5	M 42	4.5	35	40.5	81	110.5	180	32	3	6	P26300-11 ..
	T2712-40-W40-3-14-2-50	M 48	5	40	50	100	127	211	40	3	6	P26300-14 ..

Adjustable coolant supply: remove front coolant screw for blind hole machining
Bodies and assembly parts are included in the scope of delivery

Assembly parts

	D _c [mm]	16.5–19	24–29	35	40–52
	Coolant screw Tightening torque	FS2111 (T7IP) 8 in lbs	FS2061 (T7IP) 8 in lbs	FS1457 (T9IP) 18 in lbs	FS2147 (T6IP) 5 in lbs

Accessories

	D _c [mm]	16.5–19	24–35	40–52
	Torque screwdriver, analog	FS2001	FS2003	FS2001
	Torque screwdriver, digital		FS2248	
	Interchangeable blade	FS2011 (T7IP)	FS2013 (T9IP)	FS2085 (T6IP)
	Screwdriver	FS2088 (T7IP)	FS1484 (T9IP)	FS2086 (T6IP)

Indexable inserts

	Designation	Size	r mm	Pitch (P) mm	Pitch (P) (TPI) in	l mm	Number of cutting edges	P	M	K	N	S	H
								HC	HC	HC	HC	HC	HC
	P26300-0601-D61	06	0.1	1.40–2.90	9–18	6.73	3						
	P26300-0602-D61	06	0.2	3.00–3.20	8	6.58	3						
	P26300-0901-D61	09	0.1	1.40–2.90	9–18	9.48	3						
	P26300-0902-D61	09	0.2	3.00–4.30	6–8	9.34	3						
	P26300-1101-D61	11	0.1	1.40–2.90	9–18	10.85	3						
	P26300-1102-D61	11	0.2	3.00–4.50	6–8	10.71	3						
	P26300-1401-D61	14	0.1	1.40–2.90	9–18	13.87	3						
	P26300-1402-D61	14	0.2	3.00–5.20	5–8	13.72	3						
	P26300-1404-D61	14	0.4	5.50–6.40	4–5	13.43	3						
	P26300-0601-D67	06	0.1	1.40–2.90	9–18	6.73	3						
	P26300-0602-D67	06	0.2	3.00–3.20	8	6.58	3						
	P26300-0901-D67	09	0.1	1.40–2.90	9–18	9.48	3						
	P26300-0902-D67	09	0.2	3.00–4.30	6–8	9.34	3						
	P26300-1102-D67	11	0.2	3.00–4.50	6–8	10.71	3						
	P26300-1401-D67	14	0.1	1.40–2.90	9–18	13.87	3						
	P26300-1402-D67	14	0.2	3.00–5.20	5–8	13.72	3						
	P26310-09G11-D61	09	0.2	2.30	11	9.34	3						
	P26310-14G11-D61	14	0.2	2.30	11	13.72	3						

HC = Coated Carbide

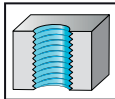
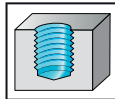
Indexable insert thread milling cutter T2712



- Universal indexable insert thread milling cutter
- Radius correction values: Walter GPS/Technical information

M-MF
DIN 13

G (BSP)
DIN EN ISO 228



$\leq$
 $2,5 \times D_N$



	P	M	K	N	S	H	O
T2712	●	●	●	●	●	●	●

Tool

	Designation	D_N	P_{max} mm	D_c mm	l_3 mm	l_1 mm	d_1 mm	Z	Number of cutting edges	Type
 DIN 1835 B	T2712-17-W16-3-06	M 20	2.5	16.5	53	108	16	3	3	P26300-06 ..
	T2712-19-W20-3-06	M 24	3	19	63	123	20	3	3	P26300-06 ..
	T2712-24-W25-3-09	M 30	3.5	24	79.5	148	25	3	3	P26300-09 ..
	T2712-29-W32-3-09	M 36	4	29	94.5	167	32	3	3	P26300-09 ..
	T2712-35-W32-3-11	M 42	4.5	35	110.5	181	32	3	3	P26300-11 ..
	T2712-40-W40-3-14	M 48	5	40	127	211	40	3	3	P26300-14 ..
	T2712-44-W40-3-14	M 56	5.5	44	147	230	40	3	3	P26300-14 ..
	T2712-52-W40-4-14	M 64	6	52	167	249	40	4	4	P26300-14 ..

Adjustable coolant supply: remove front coolant screw for blind hole machining
Bodies and assembly parts are included in the scope of delivery

Assembly parts

	D _c [mm]	16.5–19	24–29	35	40–52
	Coolant screw Tightening torque	FS2111 (T7IP) 8 in lbs	FS2061 (T7IP) 8 in lbs	FS1457 (T9IP) 18 in lbs	FS2147 (T6IP) 5 in lbs

Accessories

	D _c [mm]	16.5–19	24–35	40–52
	Torque screwdriver, analog	FS2001	FS2003	FS2001
	Torque screwdriver, digital		FS2248	
	Interchangeable blade	FS2011 (T7IP)	FS2013 (T9IP)	FS2085 (T6IP)
	Screwdriver	FS2088 (T7IP)	FS1484 (T9IP)	FS2086 (T6IP)

Indexable inserts

	Designation	Size	r mm	Pitch (P) mm	Pitch (P) (TPI) in	l mm	Number of cutting edges	P	M	K	N	S	H
								HC	HC	HC	HC	HC	HC
	P26300-0601-D61	06	0.1	1.40–2.90	9–18	6.73	3						
	P26300-0602-D61	06	0.2	3.00–3.20	8	6.58	3						
	P26300-0901-D61	09	0.1	1.40–2.90	9–18	9.48	3						
	P26300-0902-D61	09	0.2	3.00–4.30	6–8	9.34	3						
	P26300-1101-D61	11	0.1	1.40–2.90	9–18	10.85	3						
	P26300-1102-D61	11	0.2	3.00–4.50	6–8	10.71	3						
	P26300-1401-D61	14	0.1	1.40–2.90	9–18	13.87	3						
	P26300-1402-D61	14	0.2	3.00–5.20	5–8	13.72	3						
	P26300-1404-D61	14	0.4	5.50–6.40	4–5	13.43	3						
	P26300-0601-D67	06	0.1	1.40–2.90	9–18	6.73	3						
	P26300-0602-D67	06	0.2	3.00–3.20	8	6.58	3						
	P26300-0901-D67	09	0.1	1.40–2.90	9–18	9.48	3						
	P26300-0902-D67	09	0.2	3.00–4.30	6–8	9.34	3						
	P26300-1102-D67	11	0.2	3.00–4.50	6–8	10.71	3						
	P26300-1401-D67	14	0.1	1.40–2.90	9–18	13.87	3						
	P26300-1402-D67	14	0.2	3.00–5.20	5–8	13.72	3						
	P26300-1404-D67	14	0.4	5.50–6.40	4–5	13.43	3						
	P26310-09G11-D61	09	0.2	2.30	11	9.34	3						
	P26310-14G11-D61	14	0.2	2.30	11	13.72	3						

HC = Coated Carbide

C3

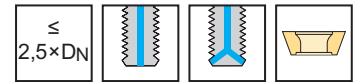
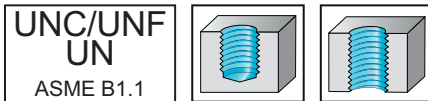
WALTER SELECT

Stability of machine, workpiece and clamping arrangement → Very good =  → Good =  → Moderate = 

Indexable insert thread milling cutter T2712



- Universal indexable insert thread milling cutter
- Radius correction values: Walter GPS/Technical information



	P	M	K	N	S	H	O
T2712	●	●	●	●	●	●	●

Tool

Designation	D _N	P _{max} T- Pl in	D _c mm	l ₂₁ mm	L _c mm	l ₃ mm	l ₁ mm	d ₁ mm	Z	Number of cutting edges	Type
T2712-26-W25-3-09-2-32.7	UNC 1 1/4-7	7	26	32.7	65.3	84	151	25	3	6	P26300-09 ..
T2712-31-W32-3-09-2-38.1	UNC 1 1/2-6	6	31	38.1	76.2	99.8	172	32	3	6	

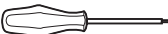
DIN 1835 B

Adjustable coolant supply: remove front coolant screw for blind hole machining
Bodies and assembly parts are included in the scope of delivery

Assembly parts

	D _c [mm]	26–31
	Coolant screw Tightening torque	FS2111 (T7IP) 8 in lbs

Accessories

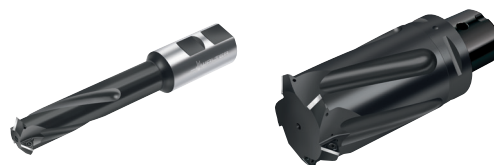
	D _c [mm]	26–31
	Torque screwdriver, analog	FS2001
	Interchangeable blade	FS2011 (T7IP)
	Screwdriver	FS2088 (T7IP)

Indexable inserts

	Designation	Size	r mm	Pitch (P) mm	Pitch (P) (TPI) in	l mm	Number of cutting edges	P	M	K	N	S	H
								HC	HC	HC	HC	HC	HC
	P26300-0901-D61	09	0.1	1.40–2.90	9–18	9.48	3						
	P26300-0902-D61	09	0.2	3.00–4.30	6–8	9.34	3						
	P26300-0901-D67	09	0.1	1.40–2.90	9–18	9.48	3						
	P26300-0902-D67	09	0.2	3.00–4.30	6–8	9.34	3						

HC = Coated Carbide

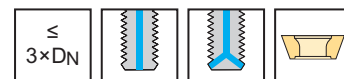
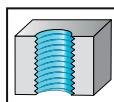
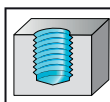
Indexable insert thread milling cutter T2713



- Universal indexable insert thread milling cutter
- Radius correction values: Walter GPS/Technical information

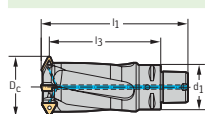
M-MF
DIN 13

G (BSP)
DIN EN ISO 228

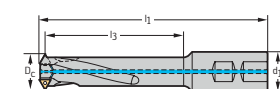


	P	M	K	N	S	H	O
T2713	●	●	●	●	●	●	●

Tool



Walter Capto™ in acc. with ISO 26623



DIN 1835 B

Designation	D _N	P _{max} mm	D _c mm	l ₃ mm	l ₁ mm	d ₁ mm	Z	Number of cutting edges	Type
T2713-60-C5-4-14	M 72	6	60	115	152	50	4	4	P26300-14 ..
T2713-73-C6-5-14	M 85	6	73	125	170	63	5	5	
T2713-94-C8-5-22	M 125	10	94	140	199	80	5	5	P26300-22 ..
T2713-17-W16-3-06	M 20	2.5	16.5	63	118	16	3	3	P26300-06 ..
T2713-19-W20-3-06	M 24	3	19	75	135	20	3	3	
T2713-24-W25-3-09	M 30	3.5	24	94.5	163	25	3	3	P26300-09 ..
T2713-29-W32-3-09	M 36	4	29	112.5	185	32	3	3	
T2713-35-W32-3-11	M 42	4.5	35	131.5	202	32	3	3	P26300-11 ..
T2713-40-W40-3-14	M 48	5	40	151	235	40	3	3	P26300-14 ..
T2713-44-W40-3-14	M 56	5.5	44	175	258	40	3	3	
T2713-52-W40-4-14	M 64	6	52	199	281	40	4	4	

Adjustable coolant supply: remove front coolant screw for blind hole machining
Bodies and assembly parts are included in the scope of delivery

Assembly parts

	D _c [mm]	16.5–19	24–29	35	40–73	94
	Coolant screw Tightening torque	FS2111 (T7IP) 8 in lbs	FS2061 (T7IP) 8 in lbs	FS1457 (T9IP) 18 in lbs	FS1495 (T20IP) 44 in lbs	FS2147 (T6IP) 5 in lbs

Accessories

	D _c [mm]	16.5–19	24–35	40–73	94
	Torque screwdriver, analog	FS2001	FS2003	FS2003	FS2001
	Torque screwdriver, digital		FS2248		
	Interchangeable blade			FS2015 (T20IP)	
	Screwdriver			FS1486 (T20IP)	
	Interchangeable blade	FS2011 (T7IP)	FS2013 (T9IP)		FS2085 (T6IP)
	Screwdriver	FS2088 (T7IP)	FS1484 (T9IP)		FS2086 (T6IP)

Indexable inserts

								P	M	K	N	S	H
								HC	HC	HC	HC	HC	HC
								WSM375	WSM375	WSM375	WSM375	WSM375	WSM375
	Designation	Size	r mm	Pitch (P) mm	Pitch (P) (TPI) in	l mm	Number of cutting edges						
	P26300-1401-D61	14	0.1	1.40–2.90	9–18	13.87	3						
	P26300-1402-D61	14	0.2	3.00–5.20	5–8	13.72	3						
	P26300-1404-D61	14	0.4	5.50–6.40	4–5	13.43	3						
	P26300-2204-D61	22	0.4	6.00–10.0	3–4	21.41	3						
	P26300-0601-D61	06	0.1	1.40–2.90	9–18	6.73	3						
	P26300-0602-D61	06	0.2	3.00–3.20	8	6.58	3						
	P26300-0901-D61	09	0.1	1.40–2.90	9–18	9.48	3						
	P26300-0902-D61	09	0.2	3.00–4.30	6–8	9.34	3						
	P26300-1101-D61	11	0.1	1.40–2.90	9–18	10.85	3						
	P26300-1102-D61	11	0.2	3.00–4.50	6–8	10.71	3						
	P26300-1401-D67	14	0.1	1.40–2.90	9–18	13.87	3						
	P26300-1402-D67	14	0.2	3.00–5.20	5–8	13.72	3						
	P26300-1404-D67	14	0.4	5.50–6.40	4–5	13.43	3						
	P26310-14G11-D61	14	0.2	2.30	11	13.72	3						
	P26310-09G11-D61	09	0.2	2.30	11	9.34	3						

HC = Coated Carbide

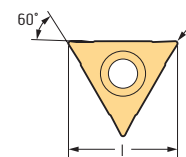
C3

WALTER SELECT

Stability of machine, workpiece and clamping arrangement → Very good =  → Good =  → Moderate = 

Thread milling cutter inserts – M, MF, UNC, UNF, UN

P26300 Tiger-tec® Silver



Indexable inserts

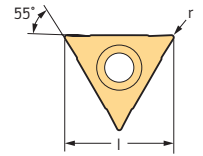
	Designation	Size	r mm	Pitch (P) mm	Pitch (P) (TPI) in	l mm	Number of cutting edges	P	M	K	N	S	H
								HC	HC	HC	HC	HC	HC
	P26300-0601-D61	06	0.1	1.40–2.90	9–18	6.73	3	WSM375	WSM375	WSM375	WSM375	WSM375	WSM375
	P26300-0602-D61	06	0.2	3.00–3.20	8	6.58	3	WSM375	WSM375	WSM375	WSM375	WSM375	WSM375
	P26300-0901-D61	09	0.1	1.40–2.90	9–18	9.48	3	WSM375	WSM375	WSM375	WSM375	WSM375	WSM375
	P26300-0902-D61	09	0.2	3.00–4.30	6–8	9.34	3	WSM375	WSM375	WSM375	WSM375	WSM375	WSM375
	P26300-1101-D61	11	0.1	1.40–2.90	9–18	10.85	3	WSM375	WSM375	WSM375	WSM375	WSM375	WSM375
	P26300-1102-D61	11	0.2	3.00–4.50	6–8	10.71	3	WSM375	WSM375	WSM375	WSM375	WSM375	WSM375
	P26300-1401-D61	14	0.1	1.40–2.90	9–18	13.87	3	WSM375	WSM375	WSM375	WSM375	WSM375	WSM375
	P26300-1402-D61	14	0.2	3.00–5.20	5–8	13.72	3	WSM375	WSM375	WSM375	WSM375	WSM375	WSM375
	P26300-1404-D61	14	0.4	5.50–6.40	4–5	13.43	3	WSM375	WSM375	WSM375	WSM375	WSM375	WSM375
	P26300-2204-D61	22	0.4	6.00–10.00	3–4	21.41	3	WSM375	WSM375	WSM375	WSM375	WSM375	WSM375
	P26300-0601-D67	06	0.1	1.40–2.90	9–18	6.73	3	WSM375	WSM375	WSM375	WSM375	WSM375	WSM375
	P26300-0602-D67	06	0.2	3.00–3.20	8	6.58	3	WSM375	WSM375	WSM375	WSM375	WSM375	WSM375
	P26300-0901-D67	09	0.1	1.40–2.90	9–18	9.48	3	WSM375	WSM375	WSM375	WSM375	WSM375	WSM375
	P26300-0902-D67	09	0.2	3.00–4.30	6–8	9.34	3	WSM375	WSM375	WSM375	WSM375	WSM375	WSM375
	P26300-1102-D67	11	0.2	3.00–4.50	6–8	10.71	3	WSM375	WSM375	WSM375	WSM375	WSM375	WSM375
	P26300-1401-D67	14	0.1	1.40–2.90	9–18	13.87	3	WSM375	WSM375	WSM375	WSM375	WSM375	WSM375
	P26300-1402-D67	14	0.2	3.00–5.20	5–8	13.72	3	WSM375	WSM375	WSM375	WSM375	WSM375	WSM375
	P26300-1404-D67	14	0.4	5.50–6.40	4–5	13.43	3	WSM375	WSM375	WSM375	WSM375	WSM375	WSM375

Ordering example for the grade WSM375: P26300-0601-D61 WSM375

HC = Coated Carbide

Thread milling cutter inserts – G (BSP)

P26310 Tiger-tec® Silver

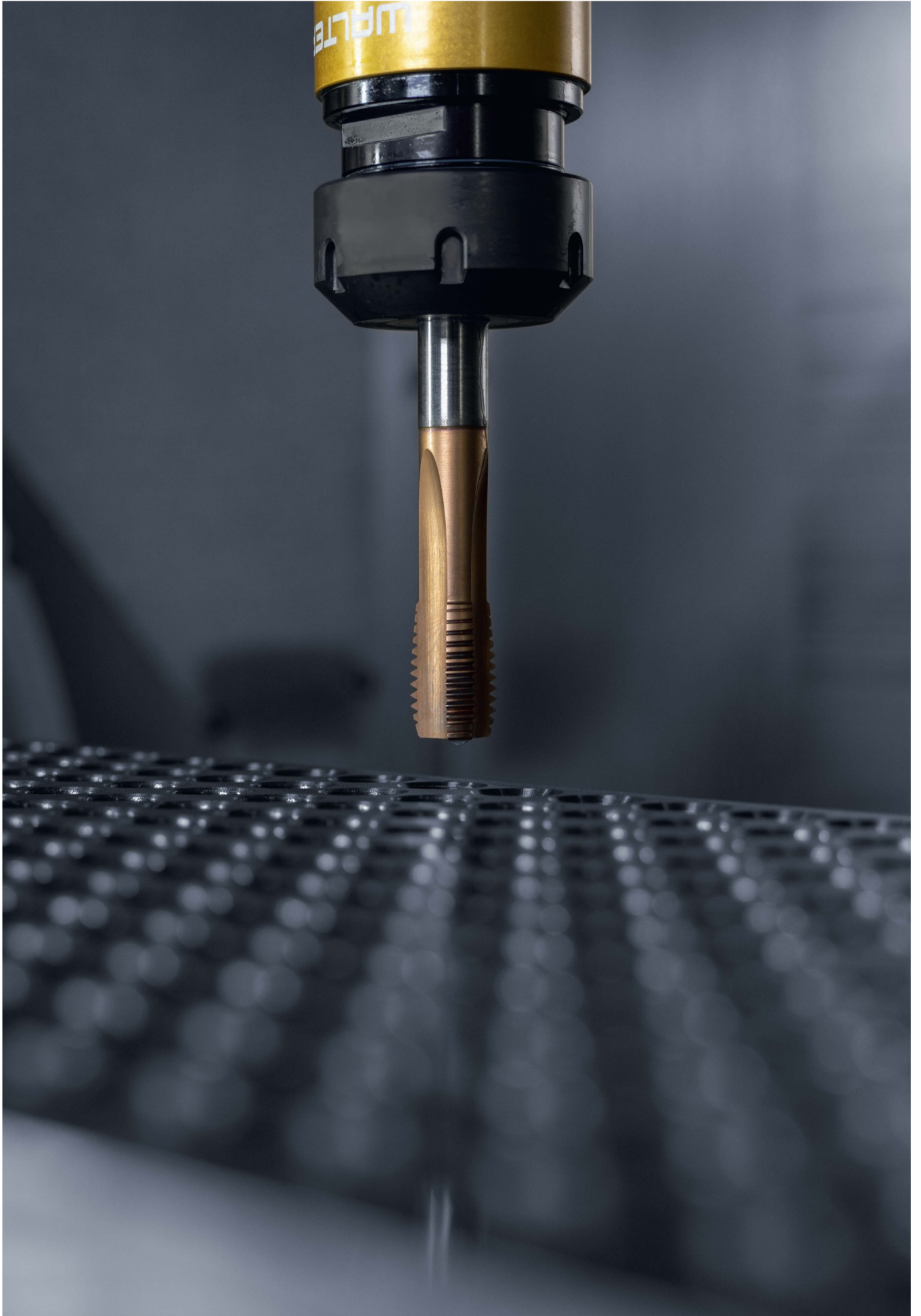


Indexable inserts

	Designation	Size	r mm	Pitch (P) mm	Pitch (P) (TPI) in	l mm	Number of cutting edges	P	M	K	N	S	H
								HC	HC	HC	HC	HC	HC
	P26310-09G11-D61	09	0.2	2.30	11	9.34	3	WSM375	WSM375	WSM375	WSM375	WSM375	WSM375
	P26310-14G11-D61	14	0.2	2.30	11	13.72	3	WSM375	WSM375	WSM375	WSM375	WSM375	WSM375

Ordering example for the grade WSM375: P26310-09G11-D61 WSM375

HC = Coated Carbide

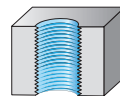


C – Threading

C4: Tapping		Page
HSS-E (-PM) taps	Product range overview	
	HSS-E (-PM) taps	502
	Order pages	
	M – Metric thread	506
	UNC	511
	UNF	536
	UN-8/UNS	558
	STI-UNC/STI-UNF	560
	NPT/NPTF	572
C4: Thread forming		Page
HSS-E (-PM) thread formers	Product range overview	
	HSS-E (-PM) thread formers	578
	Order pages	
	M – Metric thread	579
	UNC	580
	UNF	582

HSS-E (-PM) taps

Machining



Thread depth

 $2 \times D_N$
 $3 \times D_N$
 $3 \times D_N$
 $3.5 \times D_N$
 $3.5 \times D_N$


Designation

Prototex® TiNi

Prototex® Synchrospeed

TC217 Advance

Prototex® Eco Plus

TC216 Perform

Thread type

M

✓

✓

MF

UNC / UNF / UN-8

✓

✓

✓

✓

✓

G / Rc / Rp

MJ / UNJC / UNJF

NPT / NPTF

Pg / BSW / Tr

STI-UNC / STI-UNF

✓

✓

Tolerance

3B / 6HX

2B

2B/3B / 3B / 6HX / H11 / H7

2B

2B

Coolant supply

External

External

External

External

External

Chamfer form

B

B

B

B

B

Coating / grade

TICN / uncoated

TIN

WY80FC / WY80RG

THL

WY80AA

Cutting tool material

HSS-E-PM

HSS-E

HSS-E

HSS-E-PM

HSS-E

P Steel

● ●

● ●

● ●

● ●

● ●

M Stainless steel

● ●

● ●

● ●

● ●

● ●

K Cast iron

● ●

● ●

● ●

● ●

● ●

N NF metals

●

● ●

● ●

● ●

● ●

S Materials with difficult cutting properties

● ●

● ●

● ●

● ●

● ●

H Hard materials

O Other

● ●

● ●

● ●

● ●

● ●

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C 566

C 511

C 515

QR code


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prototex-tini

prototex-synchrospeed

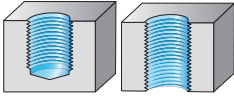
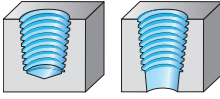
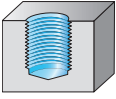
TC217

prototex-eco-plus

TC216

C4

HSS-E (-PM) taps

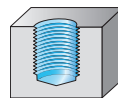
Machining					
Thread depth	3 x D _N				1.5 x D _N



Designation	Paradur® X-pert K	Paradur® Inox®	Paradur® H	Paradur® Ni	Paradur® Ni
Thread type					
M					
MF					
UNC / UNF / UN-8	✓				✓
G / Rc / Rp					
MJ / UNJC / UNJF					
NPT / NPTF		✓	✓	✓	
Pg / BSW / Tr					
STI-UNC / STI-UNF					✓
Tolerance	2B	NORMAL	NORMAL	NORMAL	3B
Coolant supply	External	External	External	External	External
Chamfer form	C	C	C	C	C / E
Coating / grade	TAFT	VAP	uncoated	VAP	TICN / VAP
Cutting tool material	HSS-E-PM	HSS-E	HSS-E	HSS-E	HSS-E-PM / HSS-E
P Steel		••		••	••
M Stainless steel		••			
K Cast iron	••	•	•	••	••
N NF metals	•		••	••	•
S Materials with difficult cutting properties					••
H Hard materials					
O Other			•		
Page in catalog	C 536	C 562	C 560	C 561	C 570
QR code					
	www.walter-tools.com/woc/paradur-xpert-k	www.walter-tools.com/woc/paradur-inox	www.walter-tools.com/woc/paradur-h	www.walter-tools.com/woc/paradur-ni	www.walter-tools.com/woc/paradur-ni

HSS-E (-PM) taps

Machining



Thread depth

 $1.5 \times D_N$
 $2 \times D_N$
 $2.5 \times D_N$
 $3 \times D_N$
 $3 \times D_N$


Designation

Paradur® Ni 10

Paradur® Ti

Paradur® Synchrospeed

Paradur® Eco CI

Paradur® Eco Plus

Thread type

M

✓

MF

UNC / UNF / UN-8

✓

✓

✓

✓

✓

G / Rc / Rp

MJ / UNJC / UNJF

NPT / NPTF

Pg / BSW / Tr

STI-UNC / STI-UNF

✓

Tolerance

3B

3B / 6HX

2B

2B

2B

Coolant supply

External

External

External

axial

External / axial

Chamfer form

C

C / E

C

C

C

Coating / grade

TICN

TICN / VAP

TIN/VAP

TICN

THL

Cutting tool material

HSS-E-PM

HSS-E-PM

HSS-E

HSS-E-PM / HSS

HSS-E-PM

P Steel

● ●

● ●

● ●

● ●

M Stainless steel

● ●

● ●

K Cast iron

● ●

● ●

● ●

N NF metals

●

●

●

● ●

● ●

S Materials with difficult cutting properties

● ●

● ●

●

H Hard materials

O Other

●

● ●

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C 519

QR code


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paradur-ni-10

paradur-ti

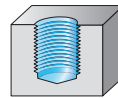
paradur-synchrospeed

paradur-eco-ci

paradur-eco-plus

HSS-E (-PM) taps

Machining



Thread depth

3 x D_N3 x D_N3 x D_N3 x D_N3.5 x D_N

Designation	Paradur® X-pert N	TC115 Perform	TC117 Advance	TC142 Supreme	Paradur® Short Chip HT
Thread type					
M	✓		✓		
MF					
UNC / UNF / UN-8	✓	✓	✓	✓	✓
G / Rc / Rp					
MJ / UNJC / UNJF					
NPT / NPTF					
Pg / BSW / Tr					
STI-UNC / STI-UNF	✓		✓		
Tolerance	2B / 3B / 6H	2B	2B/3B / 3B / 6HX / H11 / H7	2BX	2BX
Coolant supply	External	External	External	External	axial
Chamfer form	C	C	C / E	C	C
Coating / grade	uncoated	WY80AA	WY80FC / WY80RG	WW60RB / WY80FC	uncoated
Cutting tool material	HSS-E	HSS-E	HSS-E	HSS-E-PM / HSS-E	HSS-E
P Steel		••	••	•	••
M Stainless steel		••	••	••	
K Cast iron		••	••		•
N NF metals	••	•	••		•
S Materials with difficult cutting properties	•				
H Hard materials					
O Other	•				
Page in catalog	C 575	C 542	C 568	C 554	C 529
QR code					
www.walter-tools.com/woc/	paradur-xpert-n	TC115	TC117	TC142	paradur-short-chip-ht

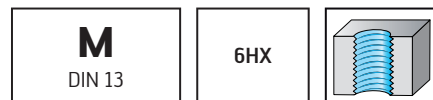
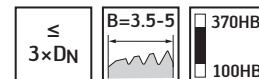
C4

HSS-E machine taps

TC217 Advance inch shank



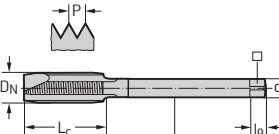
- Universal cut tap
- WY80FC: best chip control



	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●	●●	●●	●●

DIN/ANSI	Designation	D _N	P mm	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N	WY80FC
	TC217.M3-C0-	M 3	0.5	2.205	0.354	0.709	0.141	0.110	0.190	2	●●
	TC217.M4-C0-	M 4	0.7	2.480	0.472	0.827	0.168	0.131	0.250	3	●●
	TC217.M5-C0-	M 5	0.8	2.756	0.512	0.984	0.194	0.152	0.250	3	●●
	TC217.M6-C0-	M 6	1.0	3.150	0.591	1.181	0.255	0.191	0.313	3	●●
	TC217.M8-C0-	M 8	1.25	3.543	0.709	1.378	0.318	0.238	0.380	3	●●
	TC217.M10-C0-	M 10	1.5	3.937	0.787	1.535	0.381	0.286	0.437	3	●●

Order example for grade WY80FC: TC217.M3-C0-WY80FC

DIN/ANSI												
	Designation	D _N	P mm	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	 in	l _g in	N	WY80FC	
	TC217.M12-L0-	M 12	1.75	4.331	0.906	3.224	0.367	0.275	0.437	3		
	TC217.M16-L0-	M 12	2.0	4.331	0.984	2.587	0.480	0.360	0.563	4		
	TC217.M20-L0-	M 16	2.5	5.512	1.181	3.642	0.652	0.489	0.689	4		

Order example for grade WY80FC: TC217.M12-L0-WY80FC

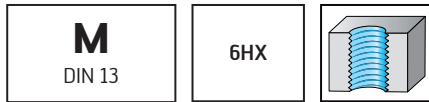
HSS-E-PM machine taps

Prototex® TiNi

inch shank



- Recommended with oil
- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●●	●	●	●●	●	●

ANSI B94.9

	Designation uncoated	D _N	P mm	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
	A2021760-M3	M3	0.5	1.937	0.433	0.433	0.141	0.110	0.190	2
	A2021760-M4	M4	0.7	2.126	0.591	0.591	0.168	0.131	0.250	3
	A2021760-M6	M6	1.0	2.500	0.630	0.906	0.255	0.191	0.313	3
	A2021760-M10	M10	1.5	2.937	0.748	1.299	0.381	0.286	0.437	3

ANSI B94.9

	Designation uncoated	D _N	P mm	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
	A2026760-M12	M12	1.75	3.378	0.945	2.272	0.367	0.275	0.437	4
	A2026760-M16	M16	2.0	3.811	1.102	2.067	0.480	0.360	0.563	4
	A2026760-M20	M20	2.5	4.469	1.181	2.598	0.652	0.489	0.689	4

C4

WALTER
SELECT

●● Primary application ● Other application

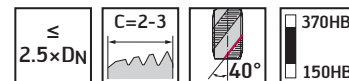
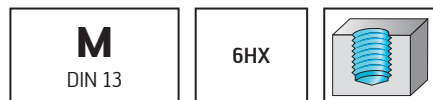
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

TC117 Advance inch shank



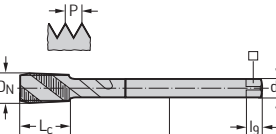
- Universal cut tap
- WY80FC: best chip control
- WY80RG: good chip control and good wear resistance



	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●	●●	●●	●●
WY80RG (TiAlN)	●●	●●	●●	●●	●●	●●	●●

DIN/ANSI	Designation	D _N -P	P mm	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80FC	WY80RG
	TC117.M3-C0-	M 3	0.5	2.205	0.236	0.709	0.141	0.110	0.190	3	●●	●●
	TC117.M4-C0-	M 4	0.7	2.480	0.276	0.827	0.168	0.131	0.250	3	●●	●●
	TC117.M5-C0-	M 5	0.8	2.756	0.315	0.984	0.194	0.152	0.250	3	●●	●●
	TC117.M6-C0-	M 6	1.0	3.150	0.394	1.181	0.255	0.191	0.313	3	●●	●●
	TC117.M8-C0-	M 8	1.25	3.543	0.472	1.378	0.318	0.238	0.380	3	●●	●●
	TC117.M10-C0-	M 10	1.5	3.937	0.591	1.535	0.381	0.286	0.437	3	●●	●●

Order example for grade WY80RG: TC117.M3-C0-WY80RG

DIN/ANSI												
	Designation	D _N -P	P mm	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	 in	l _g in	N	WY80FC	WY80RG
	TC117.M12-L0-	M 12	1.75	4.331	0.630	3.224	0.367	0.275	0.437	4		
	TC117.M16-L0-	M 16	2.0	4.331	0.787	2.587	0.480	0.360	0.563	4		
	TC117.M20-L0-	M 20	2.5	5.512	0.984	3.642	0.652	0.489	0.689	4		

Order example for grade WY80RG: TC117.M12-L0-WY80RG

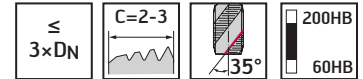
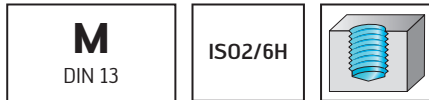
WALTER
SELECT

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

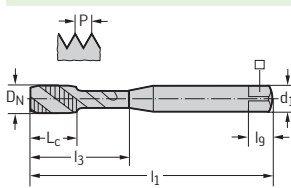
Paradur® X-pert N inch shank

– For long-chipping aluminum alloys (Si content < 7 %>



	P	M	K	N	S	H	O
uncoated				●●	●		●

DIN/ANSI



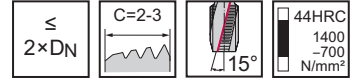
Designation uncoated	D _N -P	P mm	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	in	l _g in	N
★ AN20516-M2	M 2	0.4	1.772	0.157	0.354	0.141	0.110	0.190	2
★ AN20516-M2.5	M 2.5	0.45	1.969	0.157	0.492	0.141	0.110	0.190	2
★ AN20516-M3	M 3	0.5	2.205	0.236	0.709	0.141	0.110	0.190	2
★ AN20516-M4	M 4	0.7	2.480	0.276	0.827	0.168	0.131	0.250	2
★ AN20516-M5	M 5	0.8	2.756	0.315	0.984	0.194	0.152	0.250	2
★ AN20516-M6	M 6	1.0	3.150	0.394	1.181	0.255	0.191	0.313	2
★ AN20516-M8	M 8	1.25	3.543	0.472	1.378	0.318	0.238	0.380	2

HSS-E Machine taps

Paradur® Ti inch shank



- Recommended with oil
- For long-chipping materials



	P	M	K	N	S	H	O
VAP	●●			●	●●		

ANSI B94.9										
	Designation VAP	D _N	P mm	l ₁ inch	L _c inch	l ₃ inch	d ₁ h9 inch		l _g inch	N
	A20416S-M8	M 8	1.25	2.717	0.748	1.299	0.318	0.238	0.380	3

C4

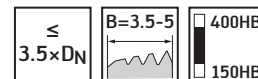
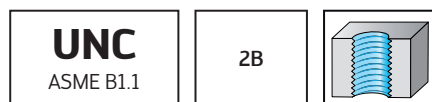
**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Prototex® Eco Plus inch shank

- Universal high-performance cut tap
- THL: good chip control and good wear resistance



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			

DIN/ANSI

	Designation THL	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N
	AEP2221002-UNC4	UNC 4-40	0.112	2.205	0.354	0.709	0.141	0.110	0.187	3
	AEP2221002-UNC5	UNC 5-40	0.125	2.205	0.394	0.709	0.141	0.110	0.190	3
	AEP2221002-UNC6	UNC 6-32	0.138	2.205	0.433	0.787	0.141	0.110	0.187	3
	AEP2221002-UNC8	UNC 8-32	0.164	2.480	0.472	0.827	0.168	0.131	0.250	3
	AEP2221002-UNC10	UNC 10-24	0.190	2.756	0.512	0.984	0.194	0.152	0.250	3
	AEP2221002-UNC12	UNC 12-24	0.216	3.150	0.591	1.181	0.220	0.165	0.281	3
	AEP2221002-UNC1/4	UNC 1/4-20	0.250	3.150	0.591	1.181	0.255	0.191	0.313	3
	AEP2221002-UNC5/16	UNC 5/16-18	0.313	3.543	0.709	1.378	0.318	0.238	0.380	3
	AEP2221002-UNC3/8	UNC 3/8-16	0.375	3.937	0.787	1.535	0.381	0.286	0.437	3

DIN/ANSI

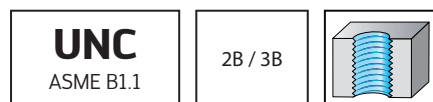
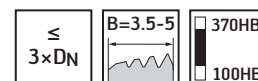
	Designation THL	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N
	AEP2226002-UNC7/16	UNC 7/16-14	0.438	3.937	0.787	2.862	0.323	0.242	0.406	3
	AEP2226002-UNC1/2	UNC 1/2-13	0.500	4.331	0.906	3.224	0.367	0.275	0.437	4
	AEP2226002-UNC9/16	UNC 9/16-12	0.563	4.331	0.984	3.161	0.429	0.322	0.500	4
	AEP2226002-UNC5/8	UNC 5/8-11	0.625	4.331	0.984	2.587	0.480	0.360	0.563	4
	AEP2226002-UNC3/4	UNC 3/4-10	0.750	4.921	1.181	3.051	0.590	0.442	0.689	4

HSS-E machine taps

TC217 Advance inch shank



- Universal cut tap
- For 2B and 3B tolerances
- WY80FC: best chip control
- WY80RG: good chip control, good wear resistance



	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●	●●	●●	●●
WY80RG (TiAlN)	●●	●●	●●	●●	●●	●●	●●

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N	WY80FC	WY80RG
	TC217.UNC1-G0-	UNC 1-64	0.073	1.772	0.236	0.354	0.141	0.110	0.190	2	●●	●●
	TC217.UNC2-G0-	UNC 2-56	0.086	1.772	0.276	0.472	0.141	0.110	0.190	2	●●	●●
	TC217.UNC3-G0-	UNC 3-48	0.099	1.969	0.315	0.492	0.141	0.110	0.190	2	●●	●●
	TC217.UNC4-G0-	UNC 4-40	0.112	2.205	0.354	0.709	0.141	0.110	0.190	2	●●	●●
	TC217.UNC5-G0-	UNC 5-40	0.125	2.205	0.394	0.709	0.141	0.110	0.190	2	●●	●●
	TC217.UNC6-G0-	UNC 6-32	0.138	2.205	0.433	0.787	0.141	0.110	0.190	2	●●	●●
	TC217.UNC8-G0-	UNC 8-32	0.164	2.480	0.472	0.827	0.168	0.131	0.250	3	●●	●●
	TC217.UNC10-G0-	UNC 10-24	0.190	2.756	0.512	0.984	0.194	0.152	0.250	3	●●	●●
	TC217.UNC12-G0-	UNC 12-24	0.216	3.150	0.591	1.181	0.220	0.165	0.281	3	●●	●●
	TC217.UNC1/4-G0-	UNC 1/4-20	0.250	3.150	0.591	1.181	0.255	0.191	0.313	3	●●	●●
	TC217.UNC5/16-G0-	UNC 5/16-18	0.313	3.543	0.709	1.378	0.318	0.238	0.380	3	●●	●●
	TC217.UNC3/8-G0-	UNC 3/8-16	0.375	3.937	0.787	1.535	0.381	0.286	0.437	3	●●	●●

Order example for grade WY80RG: TC217.UNC1-G0-WY80RG

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N	WY80FC	WY80RG
	TC217.UNC7/16-R0-	UNC 7/16-14	0.438	3.937	0.787	2.862	0.323	0.242	0.406	3	●●	●●
	TC217.UNC1/2-R0-	UNC 1/2-13	0.500	4.331	0.906	3.224	0.367	0.275	0.437	3	●●	●●
	TC217.UNC9/16-R0-	UNC 9/16-12	0.563	4.331	0.984	3.161	0.429	0.322	0.500	4	●●	●●
	TC217.UNC5/8-R0-	UNC 5/8-11	0.625	4.331	0.984	2.587	0.480	0.360	0.563	4	●●	●●
	TC217.UNC3/4-R0-	UNC 3/4-10	0.750	4.921	1.181	3.051	0.590	0.442	0.689	4	●●	●●
	TC217.UNC7/8-R0-	UNC 7/8-9	0.875	5.512	1.181	3.583	0.697	0.523	0.750	4	●●	●●
	TC217.UNC1.0-R0-	UNC 1"-8	1.000	6.299	1.417	3.756	0.800	0.600	0.811	4	●●	●●

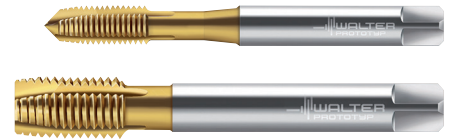
Order example for grade WY80RG: TC217.UNC7/16-R0-WY80RG

WALTER
SELECT

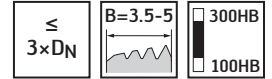
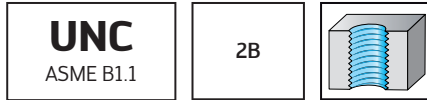
●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

TC216 Perform inch shank

– Universal cut tap



	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●●	●●	●●			

DIN/ANSI

	Designation	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N	WY80AA
	TC216.UNC6-C0-	UNC 6-32	0.138	2.205	0.433	0.787	0.141	0.110	0.188	3	☼
	TC216.UNC8-C0-	UNC 8-32	0.164	2.480	0.472	0.827	0.168	0.131	0.250	3	☼
	TC216.UNC10-C0-	UNC 10-24	0.190	2.756	0.512	0.984	0.194	0.152	0.250	3	☼
	TC216.UNC1/4-C0-	UNC 1/4-20	0.250	3.150	0.591	1.181	0.255	0.191	0.313	3	☼
	TC216.UNC5/16-C0-	UNC 5/16-18	0.313	3.543	0.709	1.378	0.318	0.238	0.375	3	☼
	TC216.UNC3/8-C0-	UNC 3/8-16	0.375	3.937	0.787	1.535	0.381	0.286	0.438	3	☼

Order example for grade WY80AA: TC216.UNC6-C0-WY80AA

DIN/ANSI

	Designation	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N	WY80AA
	TC216.UNC1/2-L0-	UNC 1/2-13	0.500	4.331	0.906	3.224	0.367	0.275	0.438	4	☼
	TC216.UNC5/8-L0-	UNC 5/8-11	0.625	4.331	0.984	2.587	0.480	0.360	0.563	4	☼
	TC216.UNC3/4-L0-	UNC 3/4-10	0.750	4.921	1.181	3.051	0.590	0.442	0.688	4	☼

Order example for grade WY80AA: TC216.UNC1/2-L0-WY80AA

WALTER
SELECT

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☼ machining conditions

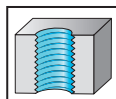
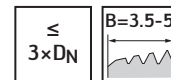
HSS-E machine taps

Prototex® Synchrospeed

inch shank

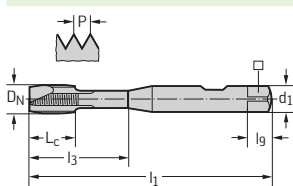


– For long-chipping materials



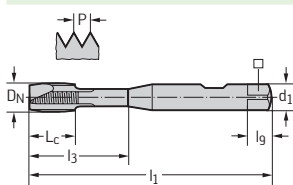
	P	M	K	N	S	H	O
TIN	●●	●●	●●	●●	●●	●●	●●

DIN/ANSI



Designation TIN	DN-P	DN in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l ₉ in	N
AS2221005-UNC1/4	UNC 1/4-20	0.250	3.150	0.500	1.181	0.255	0.191	0.313	3
AS2221005-UNC3/8	UNC 3/8-16	0.375	3.937	0.626	1.535	0.381	0.286	0.437	3

DIN/ANSI



Designation TIN	DN-P	DN in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l ₉ in	N
AS2226005-UNC1/2	UNC 1/2-13	0.500	4.331	0.768	3.224	0.367	0.275	0.437	3
AS2226005-UNC5/8	UNC 5/8-11	0.625	4.331	0.909	2.587	0.480	0.360	0.563	4
AS2226005-UNC3/4	UNC 3/4-10	0.750	4.921	1.000	3.051	0.590	0.442	0.689	4

C4

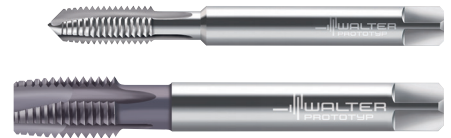
WALTER
SELECT

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Prototex® TiNi

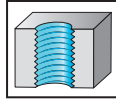
inch shank



- Recommended with oil
- For long-chipping materials

UNC
ASME B1.1

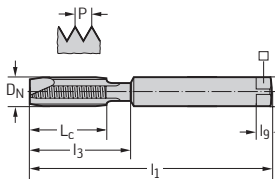
3B



	P	M	K	N	S	H	O
TICN	●●	●●	●●	●●	●●	●●	●●
uncoated	●●	●●	●●	●●	●●	●●	●●

ANSI B94.9

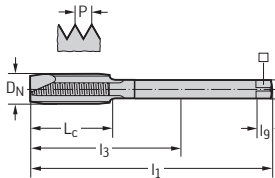
Cylindrical shank



Designation TICN	Designation uncoated	D _N -P	D _N in	h ₉ in	L _c in	l ₃ in	d ₁ in	□ in	l ₉ in	N
A2220766-UNC2	A2220760-UNC2	UNC 2-56	0.086	1.752	0.315	0.315	0.141	0.110	0.190	2
A2220766-UNC4	A2220760-UNC4	UNC 4-40	0.112	1.878	0.394	0.394	0.141	0.110	0.190	2
A2220766-UNC5		UNC 5-40	0.125	1.937	0.433	0.433	0.141	0.110	0.190	2
A2220766-UNC6	A2220760-UNC6	UNC 6-32	0.138	2.000	0.512	0.512	0.141	0.110	0.190	3
A2220766-UNC8	A2220760-UNC8	UNC 8-32	0.164	2.126	0.591	0.591	0.168	0.131	0.250	3
A2220766-UNC10	A2220760-UNC10	UNC 10-24	0.190	2.378	0.709	0.709	0.194	0.152	0.250	3
A2220766-UNC1/4	A2220760-UNC1/4	UNC 1/4-20	0.250	2.500	0.630	1.102	0.255	0.191	0.313	3
A2220766-UNC5/16	A2220760-UNC5/16	UNC 5/16-18	0.313	2.717	0.748	1.299	0.318	0.238	0.380	3
A2220766-UNC3/8	A2220760-UNC3/8	UNC 3/8-16	0.375	2.937	0.748	1.398	0.381	0.286	0.437	3

ANSI B94.9

Cylindrical shank



Designation TICN	Designation uncoated	D _N -P	D _N in	h ₉ in	L _c in	l ₃ in	d ₁ in	□ in	l ₉ in	N
A2225766-UNC7/16		UNC 7/16-14	0.438	3.157	0.866	2.083	0.323	0.242	0.406	4
A2225766-UNC1/2	A2225760-UNC1/2	UNC 1/2-13	0.500	3.378	0.945	2.272	0.367	0.275	0.437	4
A2225766-UNC9/16		UNC 9/16-12	0.563	3.594	1.024	2.425	0.429	0.322	0.500	4
A2225766-UNC5/8		UNC 5/8-11	0.625	3.811	1.102	2.067	0.480	0.360	0.563	4
A2225766-UNC3/4	A2225760-UNC3/4	UNC 3/4-10	0.750	4.252	1.181	2.382	0.590	0.442	0.689	4
A2225766-UNC7/8		UNC 7/8-9	0.875	4.685	1.260	2.756	0.697	0.523	0.750	4
A2225766-UNC1		UNC 1"-8	1.000	5.126	1.457	2.583	0.800	0.600	0.811	4

**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

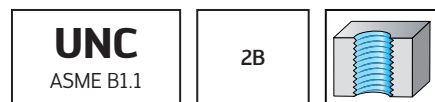
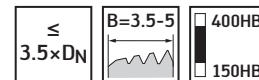
HSS-E PM machine taps

Prototex® Eco Plus

inch shank



- Universal high-performance cut tap
- THL: good chip control and good wear resistance



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			

DIN/ANSI	Designation THL	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N
	AEP2221002-UNC4	UNC 4-40	0.112	2.205	0.354	0.709	0.141	0.110	0.187	3
	AEP2221002-UNC5	UNC 5-40	0.125	2.205	0.394	0.709	0.141	0.110	0.190	3
	AEP2221002-UNC6	UNC 6-32	0.138	2.205	0.433	0.787	0.141	0.110	0.187	3
	AEP2221002-UNC8	UNC 8-32	0.164	2.480	0.472	0.827	0.168	0.131	0.250	3
	AEP2221002-UNC10	UNC 10-24	0.190	2.756	0.512	0.984	0.194	0.152	0.250	3
	AEP2221002-UNC12	UNC 12-24	0.216	3.150	0.591	1.181	0.220	0.165	0.281	3
	AEP2221002-UNC1/4	UNC 1/4-20	0.250	3.150	0.591	1.181	0.255	0.191	0.313	3
	AEP2221002-UNC5/16	UNC 5/16-18	0.313	3.543	0.709	1.378	0.318	0.238	0.380	3
	AEP2221002-UNC3/8	UNC 3/8-16	0.375	3.937	0.787	1.535	0.381	0.286	0.437	3

DIN/ANSI	Designation THL	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N
	AEP2226002-UNC7/16	UNC 7/16-14	0.438	3.937	0.787	2.862	0.323	0.242	0.406	3
	AEP2226002-UNC1/2	UNC 1/2-13	0.500	4.331	0.906	3.224	0.367	0.275	0.437	4
	AEP2226002-UNC9/16	UNC 9/16-12	0.563	4.331	0.984	3.161	0.429	0.322	0.500	4
	AEP2226002-UNC5/8	UNC 5/8-11	0.625	4.331	0.984	2.587	0.480	0.360	0.563	4
	AEP2226002-UNC3/4	UNC 3/4-10	0.750	4.921	1.181	3.051	0.590	0.442	0.689	4

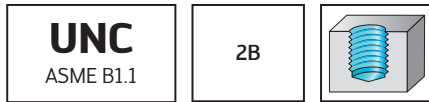
WALTER
SELECT

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® Eco Plus inch shank

- Universal high-performance cut tap
- THL: good chip control and good wear resistance



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			

DIN/ANSI

Designation THL	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
AEP2251312-UNC1/4	UNC 1/4-20	0.250	3.150	0.394	1.075	0.255	0.191	0.313	3
AEP2251312-UNC5/16	UNC 5/16-18	0.313	3.543	0.472	1.378	0.318	0.238	0.380	3
AEP2251312-UNC3/8	UNC 3/8-16	0.375	3.937	0.591	1.535	0.381	0.286	0.437	3

DIN/ANSI

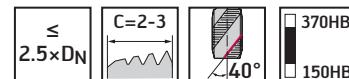
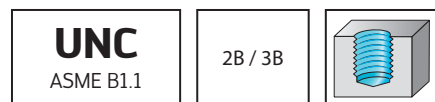
Designation THL	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
AEP2256312-UNC1/2	UNC 1/2-13	0.500	4.331	0.709	3.224	0.367	0.275	0.437	4
AEP2256312-UNC5/8	UNC 5/8-11	0.625	4.331	0.787	2.587	0.480	0.360	0.563	4
AEP2256312-UNC3/4	UNC 3/4-10	0.750	4.921	0.984	3.051	0.590	0.442	0.689	4

HSS-E machine taps

TC117 Advance inch shank



- Universal cut tap
- For 2B and 3B tolerances
- WY80FC: best chip control
- WY80RG: good chip control, good wear resistance



	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●	●●	●●	●●
WY80RG (TiAlN)	●●	●●	●●	●●	●●	●●	●●

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80FC	WY80RG
	TC117.UNC1-G0-	UNC 1-64	0.073	1.772	0.157	0.354	0.141	0.110	0.190	3	●●	●●
	TC117.UNC2-G0-	UNC 2-56	0.086	1.772	0.157	0.472	0.141	0.110	0.190	3	●●	●●
	TC117.UNC3-G0-	UNC 3-48	0.099	1.969	0.157	0.492	0.141	0.110	0.190	3	●●	●●
	TC117.UNC4-G0-	UNC 4-40	0.112	2.205	0.236	0.709	0.141	0.110	0.190	3	●●	●●
	TC117.UNC5-G0-	UNC 5-40	0.125	2.205	0.236	0.709	0.141	0.110	0.190	3	●●	●●
	TC117.UNC6-G0-	UNC 6-32	0.138	2.205	0.256	0.787	0.141	0.110	0.190	3	●●	●●
	TC117.UNC8-G0-	UNC 8-32	0.164	2.480	0.276	0.827	0.168	0.131	0.250	3	●●	●●
	TC117.UNC10-G0-	UNC 10-24	0.190	2.756	0.315	0.984	0.194	0.152	0.250	3	●●	●●
	TC117.UNC12-G0-	UNC 12-24	0.216	3.150	0.394	1.181	0.220	0.165	0.281	3	●●	●●
	TC117.UNC1/4-G0-	UNC 1/4-20	0.250	3.150	0.394	1.181	0.255	0.191	0.313	3	●●	●●
	TC117.UNC5/16-G0-	UNC 5/16-18	0.313	3.543	0.472	1.378	0.318	0.238	0.380	3	●●	●●
	TC117.UNC3/8-G0-	UNC 3/8-16	0.375	3.937	0.591	1.614	0.381	0.286	0.437	3	●●	●●

Order example for grade WY80RG: TC117.UNC1-G0-WY80RG

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80FC	WY80RG
	TC117.UNC7/16-R0-	UNC 7/16-14	0.438	3.937	0.591	2.862	0.323	0.242	0.406	3	●●	●●
	TC117.UNC1/2-R0-	UNC 1/2-13	0.500	4.331	0.709	3.224	0.367	0.275	0.437	4	●●	●●
	TC117.UNC9/16-R0-	UNC 9/16-12	0.563	4.331	0.787	3.161	0.429	0.322	0.500	4	●●	●●
	TC117.UNC5/8-R0-	UNC 5/8-11	0.625	4.331	0.787	2.587	0.480	0.360	0.563	4	●●	●●
	TC117.UNC3/4-R0-	UNC 3/4-10	0.750	4.921	0.984	3.051	0.590	0.442	0.689	4	●●	●●
	TC117.UNC7/8-R0-	UNC 7/8-9	0.875	5.512	0.984	3.583	0.697	0.523	0.750	4	●●	●●
	TC117.UNC1-R0-	UNC 1"-8	1.000	6.299	1.181	3.756	0.800	0.600	0.811	4	●●	●●
	TC117.UNC1.1/8-R0-	UNC 1.1/8-7	1.125	7.087	1.378	4.472	0.896	0.672	0.880	5	●●	●●
	TC117.UNC1.1/4-R0-	UNC 1.1/4-7	1.250	7.087	1.378	4.354	1.021	0.766	1.000	5	●●	●●
	TC117.UNC1.1/2-R0-	UNC 1.1/2-6	1.500	7.874	1.575	3.953	1.233	0.925	1.126	5	●●	●●

Order example for grade WY80RG: TC117.UNC7/16-R0-WY80RG

WALTER
SELECT

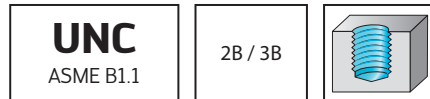
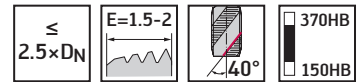
●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

TC117 Advance **inch shank**

- Universal cut tap
- For 2B and 3B tolerances
- WY80FC: best chip control
- WY80RG: good chip control, good wear resistance



	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●	●●	●●	●●
WY80RG (TiAlN)	●●	●●	●●	●●	●●	●●	●●

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80FC	WY80RG
	TC117.UNC2-GE-	UNC 2-56	0.086	1.772	0.157	0.472	0.141	0.110	0.190	3	●●	●●
	TC117.UNC4-GE-	UNC 4-40	0.112	2.205	0.236	0.709	0.141	0.110	0.190	3	●●	●●
	TC117.UNC6-GE-	UNC 6-32	0.138	2.205	0.256	0.787	0.141	0.110	0.190	3	●●	●●
	TC117.UNC8-GE-	UNC 8-32	0.164	2.480	0.276	0.827	0.168	0.131	0.250	3	●●	●●
	TC117.UNC10-GE-	UNC 10-24	0.190	2.756	0.315	0.984	0.194	0.152	0.250	3	●●	●●
	TC117.UNC1/4-GE-	UNC 1/4-20	0.250	3.150	0.394	1.181	0.255	0.191	0.313	3	●●	●●
	TC117.UNC5/16-GE-	UNC 5/16-18	0.313	3.543	0.472	1.378	0.318	0.238	0.380	3	●●	●●
	TC117.UNC3/8-GE-	UNC 3/8-16	0.375	3.937	0.591	1.535	0.381	0.286	0.437	3	●●	●●

Order example for grade WY80RG: TC117.UNC6-GE-WY80RG

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80FC	WY80RG
	TC117.UNC7/16-RE-	UNC 7/16-14	0.438	3.937	0.591	2.862	0.323	0.242	0.406	3	●●	●●
	TC117.UNC1/2-RE-	UNC 1/2-13	0.500	4.331	0.709	3.224	0.367	0.275	0.437	4	●●	●●
	TC117.UNC9/16-RE-	UNC 9/16-12	0.563	4.331	0.787	3.161	0.429	0.322	0.500	4	●●	●●
	TC117.UNC5/8-RE-	UNC 5/8-11	0.625	4.331	0.787	2.587	0.480	0.360	0.563	4	●●	●●
	TC117.UNC3/4-RE-	UNC 3/4-10	0.750	4.921	0.984	3.051	0.590	0.442	0.689	4	●●	●●
	TC117.UNC7/8-RE-	UNC 7/8-9	0.875	5.512	0.984	3.583	0.697	0.523	0.750	4	●●	●●
	TC117.UNC1.0-RE-	UNC 1"-8	1.000	6.299	1.181	3.756	0.800	0.600	0.811	4	●●	●●

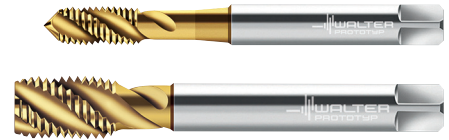
Order example for grade WY80RG: TC117.UNC1/2-RE-WY80RG

WALTER
SELECT

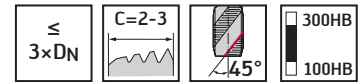
●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

TC115 Perform inch shank



– Universal cut tap



	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●●	●●	●			

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80AA
	TC115.UNC6-C0-	UNC 6-32	0.138	2.205	0.256	0.787	0.141	0.110	0.188	3	☼
	TC115.UNC8-C0-	UNC 8-32	0.164	2.480	0.276	0.827	0.168	0.131	0.250	3	☼
	TC115.UNC10-C0-	UNC 10-24	0.190	2.756	0.315	0.984	0.194	0.152	0.250	3	☼
	TC115.UNC1/4-C0-	UNC 1/4-20	0.250	3.150	0.394	1.181	0.255	0.191	0.313	3	☼
	TC115.UNC5/16-C0-	UNC 5/16-18	0.313	3.543	0.472	1.378	0.318	0.238	0.375	3	☼
	TC115.UNC3/8-C0-	UNC 3/8-16	0.375	3.937	0.591	1.535	0.381	0.286	0.438	3	☼

Order example for grade WY80AA: TC115.UNC6-C0-WY80AA

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80AA
	TC115.UNC1/2-L0-	UNC 1/2-13	0.500	4.331	0.709	3.224	0.367	0.275	0.438	3	☼
	TC115.UNC5/8-L0-	UNC 5/8-11	0.625	4.331	0.787	2.587	0.480	0.360	0.563	3	☼
	TC115.UNC3/4-L0-	UNC 3/4-10	0.750	4.921	0.984	3.051	0.590	0.442	0.688	4	☼

Order example for grade WY80AA: TC115.UNC1/2-L0-WY80AA

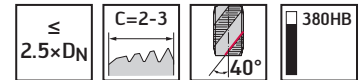
HSS-E machine taps

Paradur® Synchrospeed

inch shank



– For long-chipping materials



	P	M	K	N	S	H	O
TIN/VAP	●●	●●	●●	●	●		●

DIN/ANSI	Designation TIN/VAP	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h ₉ in	□ in	l _g in	N
	AS2251005-UNC4	UNC 4-40	0.112	2.205	0.256	0.709	0.141	0.110	0.187	3
	AS2251005-UNC6	UNC 6-32	0.138	2.205	0.315	0.787	0.141	0.110	0.187	3
	AS2251005-UNC8	UNC 8-32	0.164	2.480	0.315	0.827	0.168	0.131	0.250	3
	AS2251005-UNC10	UNC 10-24	0.190	2.756	0.433	0.984	0.194	0.152	0.250	3
	AS2251005-UNC1/4	UNC 1/4-20	0.250	3.150	0.531	1.181	0.255	0.191	0.313	3
	AS2251005-UNC5/16	UNC 5/16-18	0.313	3.543	0.591	1.378	0.318	0.238	0.380	3
	AS2251005-UNC3/8	UNC 3/8-16	0.375	3.937	0.669	1.535	0.381	0.286	0.437	3

DIN/ANSI	Designation TIN/VAP	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h ₉ in	□ in	l _g in	N
	AS2256005-UNC1/2	UNC 1/2-13	0.500	4.331	0.807	3.224	0.367	0.275	0.437	4
	AS2256005-UNC5/8	UNC 5/8-11	0.625	4.331	0.965	2.587	0.480	0.360	0.563	4
	AS2256005-UNC3/4	UNC 3/4-10	0.750	4.921	1.063	3.051	0.590	0.442	0.689	4

C4

WALTER
SELECT

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

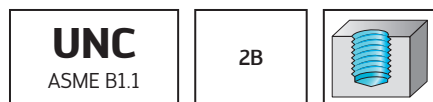
HSS-E machine taps

Paradur® Short Chip HT

inch shank



- Problem solver for steels: no bird-nesting
- Reduced helix and bright rake face in chamfer area



	P	M	K	N	S	H	O
uncoated	●●		●	●			

DIN/ANSI	Designation uncoated	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
	AC22410TR-UNC1/4	UNC 1/4-20	0.250	3.150	0.394	1.181	0.255	0.191	0.313	3
	AC22410TR-UNC3/8	UNC 3/8-16	0.375	3.937	0.591	1.535	0.381	0.286	0.437	3

DIN/ANSI	Designation uncoated	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
	AC22460TR-UNC1/2	UNC 1/2-13	0.500	4.331	0.709	3.224	0.367	0.275	0.437	4
	AC22460TR-UNC5/8	UNC 5/8-11	0.625	4.331	0.787	2.587	0.480	0.360	0.563	4

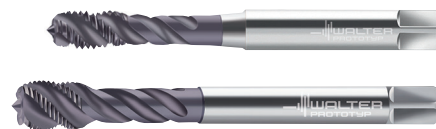
WALTER
SELECT

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

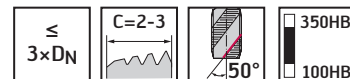
HSS-E (-PM) machine taps

TC142 Supreme

inch shank



- For stainless steels
- WY80FC: very good chip control
- WW60RB: very good wear resistance



	P	M	K	N	S	H	O
WW60RB (TiAlN)	●	●●	●	●	●	●	●
WY80FC (VAC)	●	●●	●	●	●	●	●

DIN/ANSI

Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WW60RB	WY80FC
TC142.UNC2-C0-	UNC 2-56	0.086	1.772	0.157	0.472	0.141	0.110	0.190	3	●	●
TC142.UNC4-C0-	UNC 4-40	0.112	2.205	0.236	0.709	0.141	0.110	0.190	3	●	●
TC142.UNC6-C0-	UNC 6-32	0.138	2.205	0.256	0.787	0.141	0.110	0.190	3	●	●
TC142.UNC8-C0-	UNC 8-32	0.164	2.480	0.276	0.827	0.168	0.131	0.250	3	●	●
TC142.UNC10-C0-	UNC 10-24	0.190	2.756	0.315	0.984	0.194	0.152	0.250	3	●	●
TC142.UNC1/4-C0-	UNC 1/4-20	0.250	3.150	0.394	1.181	0.255	0.191	0.313	3	●	●
TC142.UNC5/16-C0-	UNC 5/16-18	0.313	3.543	0.472	1.378	0.318	0.238	0.380	3	●	●
TC142.UNC3/8-C0-	UNC 3/8-16	0.375	3.937	0.591	1.535	0.381	0.286	0.437	3	●	●

Order example for grade WY80FC: TC142.UNC2-C0-WY80FC

DIN/ANSI

Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WW60RB	WY80FC
TC142.UNC1/2-L0-	UNC 1/2-13	0.500	4.331	0.709	3.224	0.367	0.275	0.437	3	●	●
TC142.UNC5/8-L0-	UNC 5/8-11	0.625	4.331	0.787	2.587	0.480	0.360	0.563	4	●	●
TC142.UNC3/4-L0-	UNC 3/4-10	0.750	4.921	0.984	3.051	0.590	0.442	0.689	4	●	●

Order example for grade WY80FC: TC142.UNC1/2-L0-WY80FC

WALTER
SELECT

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

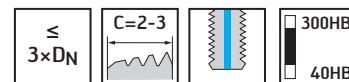
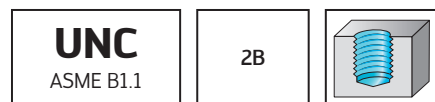
HSS-E PM machine taps

Paradur® Eco CI

inch shank



- For short-chipping ISO K materials (GJL / CGI)
- For short-chipping aluminum alloys (Si content > 7 %)



TICN	P	M	K	N	S	H	O
			●●	●●			●●

DIN/ANSI	Designation TICN	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
	AE2231416-UNC8	UNC 8-32	0.164	2.480	0.472	0.827	0.168	0.131	0.250	3
	AE2231416-UNC10	UNC 10-24	0.190	2.756	0.512	0.984	0.194	0.152	0.250	4
	AE2231416-UNC1/4	UNC 1/4-20	0.250	3.150	0.591	1.181	0.255	0.191	0.313	4
	AE2231416-UNC5/16	UNC 5/16-18	0.313	3.543	0.709	1.378	0.318	0.238	0.380	4
	AE2231416-UNC3/8	UNC 3/8-16	0.375	3.937	0.787	1.535	0.381	0.286	0.437	4

DIN/ANSI	Designation TICN	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
	AE2236416-UNC7/16	UNC 7/16-14	0.438	3.937	0.787	2.862	0.323	0.242	0.406	4
	AE2236416-UNC1/2	UNC 1/2-13	0.500	4.331	0.906	3.224	0.367	0.275	0.437	4
	AE2236416-UNC9/16	UNC 9/16-12	0.563	4.331	0.984	3.161	0.429	0.322	0.500	4
	AE2236416-UNC5/8	UNC 5/8-11	0.625	4.331	0.984	2.587	0.480	0.360	0.563	4
	AE2236416-UNC3/4	UNC 3/4-10	0.750	4.921	1.181	3.051	0.590	0.442	0.689	4
	AE2236416-UNC7/8	UNC 7/8-9	0.875	5.512	1.181	3.583	0.697	0.523	0.750	4
	AE2236416-UNC1.0	UNC 1"-8	1.000	6.299	1.417	3.756	0.800	0.600	0.811	5

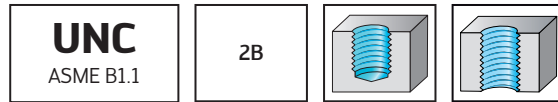
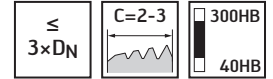
WALTER
SELECT

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® X-pert K inch shank

- For short- and long-chipping ISO K materials (GJL / CGI / GJS)
- For short-chipping aluminum alloys (Si content > 7 %)



	P	M	K	N	S	H	O
TAFT			●●	●			

DIN/ANSI	Designation TAFT	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h ₉ in	□ in	l _g in	N
	AK2231407-UNC2	UNC 2-56	0.086	1.772	0.276	0.472	0.141	0.110	0.190	3
	AK2231407-UNC4	UNC 4-40	0.112	2.205	0.354	0.709	0.141	0.110	0.190	3
	AK2231407-UNC6	UNC 6-32	0.138	2.205	0.433	0.787	0.141	0.110	0.190	3
	AK2231407-UNC10	UNC 10-24	0.190	2.756	0.512	0.984	0.194	0.152	0.250	4
	AK2231407-UNC1/4	UNC 1/4-20	0.250	3.150	0.591	0.984	0.255	0.191	0.313	4
	AK2231407-UNC5/16	UNC 5/16-18	0.313	3.543	0.709	1.378	0.318	0.238	0.380	4
	AK2231407-UNC3/8	UNC 3/8-16	0.375	3.937	0.787	1.535	0.381	0.286	0.437	4

DIN/ANSI	Designation TAFT	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h ₉ in	□ in	l _g in	N
	AK2236407-UNC1/2	UNC 1/2-13	0.500	4.331	0.906	3.224	0.367	0.275	0.437	4
	AK2236407-UNC5/8	UNC 5/8-11	0.625	4.331	0.984	2.587	0.480	0.360	0.563	4
	AK2236407-UNC3/4	UNC 3/4-10	0.750	4.921	1.181	3.051	0.590	0.442	0.689	4

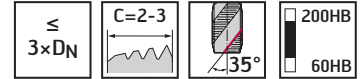
HSS-E machine taps

Paradur® X-pert N

inch shank



– For long-chipping aluminum alloys (Si content < 7 %)



	P	M	K	N	S	H	O
uncoated				●●	●		●

DIN/ANSI	Designation uncoated	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
	AN22516-UNC2	UNC 2-56	0.086	1.772	0.157	0.472	0.141	0.110	0.190	2
	AN22516-UNC4	UNC 4-40	0.112	2.205	0.236	0.709	0.141	0.110	0.190	2
	AN22516-UNC6	UNC 6-32	0.138	2.205	0.256	0.787	0.141	0.110	0.190	2
	AN22516-UNC8	UNC 8-32	0.164	2.480	0.276	0.827	0.168	0.131	0.250	2
	AN22516-UNC10	UNC 10-24	0.190	2.756	0.315	0.984	0.194	0.152	0.250	2
	AN22516-UNC1/4	UNC 1/4-20	0.250	3.150	0.394	1.181	0.255	0.191	0.313	2
	AN22516-UNC5/16	UNC 5/16-18	0.313	3.543	0.472	1.378	0.318	0.238	0.380	2
	AN22516-UNC3/8	UNC 3/8-16	0.375	3.937	0.591	1.535	0.381	0.286	0.437	2

C4

WALTER
SELECT

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® Ti

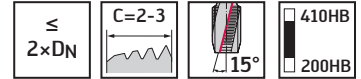
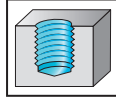
inch shank



- Recommended with oil
- For long-chipping materials

UNC
ASME B1.1

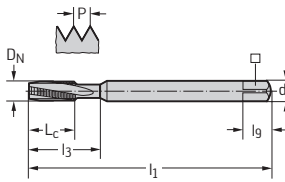
3B



	P	M	K	N	S	H	O
TICN	●●			●	●●		
VAP	●●			●	●●		

ANSI B94.9

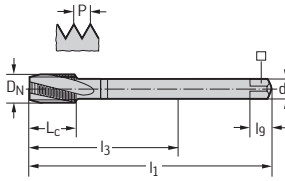
Cylindrical shank



Designation TICN	Designation VAP	DN-P	DN in	l1 in	lC in	l3 in	d1 h9 in	□ in	l9 in	N
A2240606-UNC2	A22406S-UNC2	UNC 2-56	0.086	1.752	0.315	0.315	0.141	0.110	0.190	2
A2240606-UNC4	A22406S-UNC4	UNC 4-40	0.112	1.878	0.394	0.394	0.141	0.110	0.190	2
A2240606-UNC5	A22406S-UNC5	UNC 5-40	0.125	1.937	0.433	1.157	0.141	0.110	0.190	3
A2240606-UNC6	A22406S-UNC6	UNC 6-32	0.138	2.000	0.512	1.220	0.141	0.110	0.190	3
A2240606-UNC8	A22406S-UNC8	UNC 8-32	0.164	2.126	0.591	1.283	0.168	0.131	0.250	3
A2240606-UNC10	A22406S-UNC10	UNC 10-24	0.190	2.378	0.709	0.709	0.194	0.152	0.250	3
A2240606-UNC1/4	A22406S-UNC1/4	UNC 1/4-20	0.250	2.500	0.630	1.102	0.255	0.191	0.313	3
A2240606-UNC5/16	A22406S-UNC5/16	UNC 5/16-18	0.313	2.717	0.748	1.299	0.318	0.238	0.380	3
A2240606-UNC3/8	A22406S-UNC3/8	UNC 3/8-16	0.375	2.937	0.748	1.398	0.381	0.286	0.437	3

ANSI B94.9

Cylindrical shank



Designation TICN	Designation VAP	DN-P	DN in	l1 in	lC in	l3 in	d1 h9 in	□ in	l9 in	N
A2245606-UNC7/16	A22456S-UNC7/16	UNC 7/16-14	0.438	3.157	0.866	2.083	0.323	0.242	0.406	4
A2245606-UNC1/2	A22456S-UNC1/2	UNC 1/2-13	0.500	3.378	0.945	2.272	0.367	0.275	0.437	4
	A22456S-UNC9/16	UNC 9/16-12	0.563	3.594	1.024	2.425	0.429	0.322	0.500	4
A2245606-UNC5/8	A22456S-UNC5/8	UNC 5/8-11	0.625	3.811	1.102	2.067	0.480	0.360	0.563	4
A2245606-UNC3/4	A22456S-UNC3/4	UNC 3/4-10	0.750	4.252	1.181	2.382	0.590	0.442	0.689	4
	A22456S-UNC1	UNC 1"-8	1.000	5.126	1.457	2.583	0.800	0.600	0.811	4

**WALTER
SELECT**

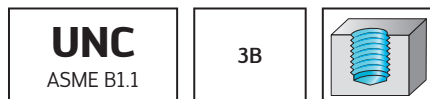
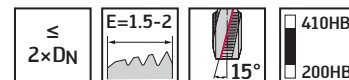
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® Ti inch shank



- Recommended with oil
- For long-chipping materials



	P	M	K	N	S	H	O
VAP	●●			●	●●		

ANSI B94.9

	Designation VAP	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
Cylindrical shank	A2240661S-UNC2	UNC 2-56	0.086	1.752	0.315	0.315	0.141	0.110	0.190	2
	A2240661S-UNC4	UNC 4-40	0.112	1.878	0.394	0.394	0.141	0.110	0.190	2
	A2240661S-UNC6	UNC 6-32	0.138	2.000	0.512	0.512	0.141	0.110	0.190	3
	A2240661S-UNC8	UNC 8-32	0.164	2.126	0.591	0.591	0.168	0.131	0.250	3
	A2240661S-UNC10	UNC 10-24	0.190	2.378	0.709	0.709	0.194	0.152	0.250	3
	A2240661S-UNC1/4	UNC 1/4-20	0.250	2.500	0.630	1.102	0.255	0.191	0.313	3
	A2240661S-UNC5/16	UNC 5/16-18	0.313	2.717	0.748	1.299	0.318	0.238	0.380	3

ANSI B94.9

	Designation VAP	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
Cylindrical shank	A2245661S-UNC1/2	UNC 1/2-13	0.500	3.378	0.945	2.272	0.367	0.275	0.437	4
	A2245661S-UNC5/8	UNC 5/8-11	0.625	3.811	1.102	2.067	0.480	0.360	0.563	4
	A2245661S-UNC3/4	UNC 3/4-10	0.750	4.252	1.181	2.382	0.590	0.442	0.689	4

WALTER
SELECT

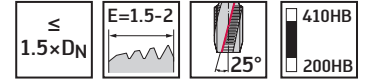
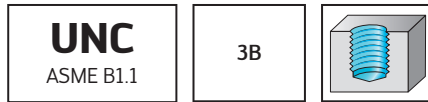
●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® Ni inch shank

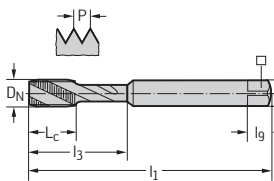
– For long-chipping materials



	P	M	K	N	S	H	O
TiCN	●				●●		

ANSI B94.9

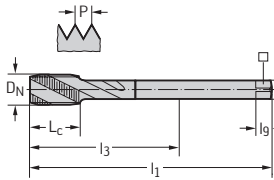
Cylindrical shank



Designation TiCN	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h ₉ in	□ in	l ₉ in	N
A224003-UNC2	UNC 2-56	0.086	1.752	0.315	0.315	0.141	0.110	0.190	3
A224003-UNC4	UNC 4-40	0.112	1.878	0.394	0.394	0.141	0.110	0.190	3
A224003-UNC5	UNC 5-40	0.125	1.937	0.433	1.157	0.141	0.110	0.190	3
A224003-UNC6	UNC 6-32	0.138	2.000	0.512	0.512	0.141	0.110	0.190	3
A224003-UNC8	UNC 8-32	0.164	2.126	0.591	1.283	0.168	0.131	0.250	3
A224003-UNC1/4	UNC 1/4-20	0.250	2.500	0.630	1.102	0.255	0.191	0.313	3
A224003-UNC5/16	UNC 5/16-18	0.313	2.717	0.748	1.299	0.318	0.238	0.380	3
A224003-UNC3/8	UNC 3/8-16	0.375	2.937	0.748	1.398	0.381	0.286	0.437	3

ANSI B94.9

Cylindrical shank



Designation TiCN	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h ₉ in	□ in	l ₉ in	N
A224503-UNC1/2	UNC 1/2-13	0.500	3.378	0.945	2.272	0.367	0.275	0.437	4
A224503-UNC5/8	UNC 5/8-11	0.625	3.811	1.102	2.067	0.480	0.360	0.563	4
A224503-UNC7/8	UNC 7/8-9	0.875	4.685	1.260	2.756	0.697	0.523	0.750	5
A224503-UNC1	UNC 1"-8	1.000	5.126	1.457	2.583	0.800	0.600	0.811	5

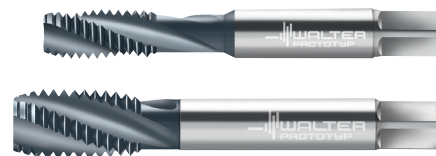
WALTER
SELECT

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® Ni

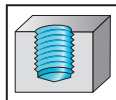
inch shank



– For long-chipping materials

UNC
ASME B1.1

3B

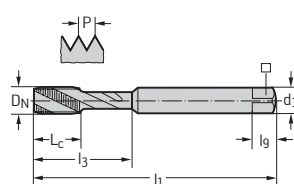

 $\leq 1.5 \times D_N$
 $E=1.5-2$
 25°

410HB
200HB

	P	M	K	N	S	H	O
VAP	●				●●		

ANSI B94.9

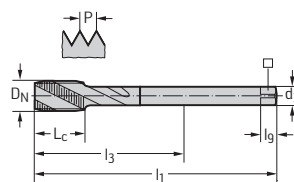
Cylindrical shank



Designation VAP	D _N -P	D _N in	l ₁ in	L _C in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
A224003S-UNC6	UNC 6-32	0.138	2.000	0.512	0.512	0.141	0.110	0.190	3
A224003S-UNC8	UNC 8-32	0.164	2.126	0.591	1.283	0.168	0.131	0.250	3
A224003S-UNC10	UNC 10-24	0.190	2.378	0.709	0.709	0.194	0.152	0.250	3
A224003S-UNC1/4	UNC 1/4-20	0.250	2.500	0.630	1.102	0.255	0.191	0.313	3
A224003S-UNC5/16	UNC 5/16-18	0.313	2.717	0.748	1.299	0.318	0.238	0.380	3
A224003S-UNC3/8	UNC 3/8-16	0.375	2.937	0.748	1.398	0.381	0.286	0.437	3

ANSI B94.9

Cylindrical shank



Designation VAP	D _N -P	D _N in	l ₁ in	L _C in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
A224503S-UNC7/16	UNC 7/16-14	0.438	3.157	0.866	2.083	0.323	0.242	0.406	4
A224503S-UNC1/2	UNC 1/2-13	0.500	3.378	0.945	2.272	0.367	0.275	0.437	4
A224503S-UNC5/8	UNC 5/8-11	0.625	3.811	1.102	2.067	0.480	0.360	0.563	4

C4

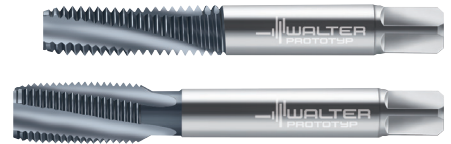
WALTER
SELECT

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

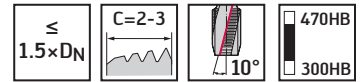
HSS-E PM machine taps

Paradur® Ni 10

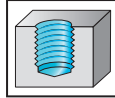
inch shank



– For long- and short-chipping materials


UNC
ASME B1.1

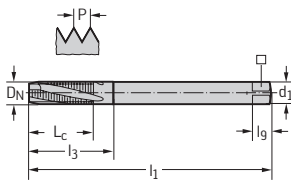
3B



	P	M	K	N	S	H	O
TICN	●●			●	●●		

ANSI B94.9

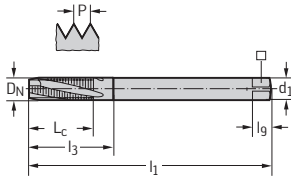
Cylindrical shank



Designation TICN	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l ₉ in	N
A2240876-UNC4	UNC 4-40	0.112	1.878	0.394	1.100	0.141	0.110	0.190	3
A2240876-UNC6	UNC 6-32	0.138	2.000	0.472	1.222	0.141	0.110	0.190	3
A2240876-UNC8	UNC 8-32	0.164	2.126	0.512	1.285	0.168	0.131	0.250	3
A2240876-UNC10	UNC 10-24	0.190	2.378	0.630	1.537	0.194	0.152	0.250	3
A2240876-UNC1/4	UNC 1/4-20	0.250	2.500	0.787	1.596	0.255	0.191	0.313	3
A2240876-UNC5/16	UNC 5/16-18	0.313	2.717	0.984	1.746	0.318	0.238	0.380	3
A2240876-UNC3/8	UNC 3/8-16	0.375	2.937	1.181	1.831	0.381	0.286	0.437	3

ANSI B94.9

Cylindrical shank



Designation TICN	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l ₉ in	N
A2245876-UNC1/2	UNC 1/2-13	0.500	3.378	0.945	2.272	0.367	0.275	0.437	4
A2245876-UNC5/8	UNC 5/8-11	0.625	3.811	1.102	2.067	0.480	0.360	0.563	4
A2245876-UNC3/4	UNC 3/4-10	0.750	4.252	1.181	2.382	0.590	0.442	0.689	5
A2245876-UNC7/8	UNC 7/8-9	0.875	4.685	1.260	2.754	0.697	0.523	0.750	5

**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

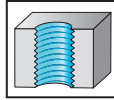
TC217 Advance inch shank



– Universal cut tap

UNC
ASME B1.1

+0.003"
(H7)



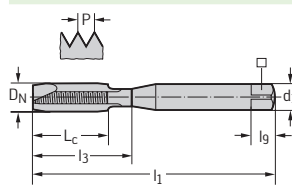
≤
3×D_N

B=3.5-5

370HB
100HB

	P	M	K	N	S	H	O
WY80RG (TiAlN)	●●	●●	●●	●●			

DIN/ANSI



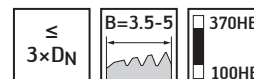
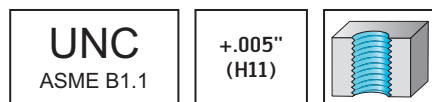
Designation	D _N -P	D _N in	l ₁ h9 in	L _C in	l ₃ in	d ₁ in	in	l ₉ in	N	WY80RG
TC217.UNC6-E0-	UNC 6-32	0.138	2.205	0.433	0.787	0.141	0.110	0.190	2	
TC217.UNC8-E0-	UNC 8-32	0.164	2.480	0.472	0.827	0.168	0.131	0.250	3	
TC217.UNC10-E0-	UNC 10-24	0.190	2.756	0.512	0.984	0.194	0.152	0.250	3	
TC217.UNC1/4-E0-	UNC 1/4-20	0.250	3.150	0.591	1.181	0.255	0.191	0.313	3	
TC217.UNC5/16-E0-	UNC 5/16-18	0.313	3.543	0.709	1.378	0.318	0.238	0.380	3	

Order example for grade WY80RG: TC217.UNC6-E0-WY80RG

HSS-E machine taps

TC217 Advance inch shank

– Universal cut tap



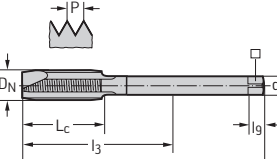
	P	M	K	N	S	H	O
WY80RG (TiAlN)	●●	●●	●●	●●			

DIN/ANSI

Technical drawing of a tap with dimensions: D_N , P , L_c , l_3 , l_1 , d_1 , l_g .

Designation	D_N -P	D_N in	l_1 h9 in	L_c in	l_3 in	d_1 in	 in	l_g in	N	WY80RG
TC217.UNC1/4-F0-	UNC 1/4-20	0.250	3.150	0.591	1.181	0.255	0.191	0.313	3	
TC217.UNC5/16-F0-	UNC 5/16-18	0.313	3.543	0.709	1.378	0.318	0.238	0.380	3	
TC217.UNC3/8-F0-	UNC 3/8-16	0.375	3.937	0.787	1.614	0.381	0.286	0.437	3	

Order example for grade WY80RG: TC217.UNC1/4-F0-WY80RG

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	 in	l _g in	N	WY80RG
	TC217.UNC7/16-P0-	UNC 7/16-14	0.438	3.937	0.787	2.862	0.323	0.242	0.406	3	
	TC217.UNC1/2-P0-	UNC 1/2-13	0.500	4.331	0.906	3.224	0.367	0.275	0.437	3	
	TC217.UNC3/4-P0-	UNC 3/4-10	0.750	4.921	1.181	3.051	0.590	0.442	0.689	4	

Order example for grade WY80RG: TC217.UNC7/16-P0-WY80RG

WALTER
SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

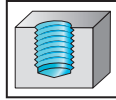
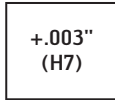
HSS-E machine taps

TC117 Advance

inch shank



– Universal cut tap



	P	M	K	N	S	H	O
WY80RG (TiAlN)	●●	●●	●●	●●			

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h ₉ in	□ in	l _g in	N	WY80RG
	TC117.UNC6-E0-	UNC 6-32	0.138	2.205	0.256	0.827	0.141	0.110	0.190	3	●●
	TC117.UNC8-E0-	UNC 8-32	0.164	2.480	0.276	0.984	0.168	0.131	0.250	3	●●
	TC117.UNC1/4-E0-	UNC 1/4-20	0.250	3.150	0.394	1.181	0.255	0.191	0.313	3	●●
	TC117.UNC5/16-E0-	UNC 5/16-18	0.313	3.543	0.472	1.378	0.318	0.238	0.380	3	●●

Order example for grade WY80RG: TC117.UNC6-E0-WY80RG

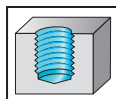
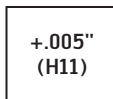
HSS-E machine taps

TC117 Advance

inch shank

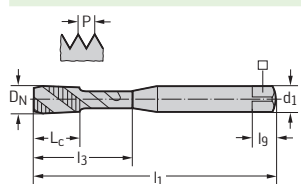


– Universal cut tap



	P	M	K	N	S	H	O
WY80RG (TiAlN)	●●	●●	●●	●●			

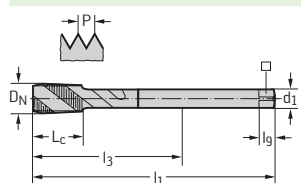
DIN/ANSI



Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	in	l _g in	N	WY80RG
TC117.UNC1/4-F0-	UNC 1/4-20	0.250	3.150	0.394	1.181	0.255	0.191	0.313	3	●●
TC117.UNC3/8-F0-	UNC 3/8-16	0.375	3.937	0.591	1.535	0.381	0.286	0.437	3	●●

Order example for grade WY80RG: TC117.UNC1/4-F0-WY80RG

DIN/ANSI



Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	in	l _g in	N	WY80RG
TC117.UNC1/2-P0-	UNC 1/2-13	0.500	4.331	0.709	3.224	0.367	0.275	0.437	4	●●
TC117.UNC9/16-P0-	UNC 9/16-12	0.563	4.331	0.787	3.161	0.429	0.322	0.500	4	●●
TC117.UNC5/8-P0-	UNC 5/8-11	0.625	4.331	0.787	2.587	0.480	0.360	0.563	4	●●

Order example for grade WY80RG: TC117.UNC1/2-P0-WY80RG

WALTER
SELECT

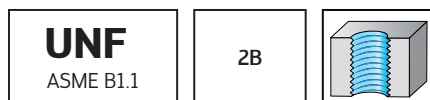
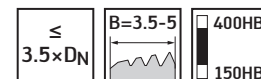
●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Prototex® Eco Plus inch shank



- Universal high-performance cut tap
- THL: good chip control and good wear resistance



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			

DIN/ANSI	Designation THL	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N
	AEP2321002-UNF10	UNF 10-32	0.190	2.756	0.512	0.984	0.194	0.152	0.250	3
	AEP2321002-UNF1/4	UNF 1/4-28	0.250	3.150	0.591	1.181	0.255	0.191	0.313	3
	AEP2321002-UNF5/16	UNF 5/16-24	0.313	3.543	0.709	1.378	0.318	0.238	0.380	3
	AEP2321002-UNF3/8	UNF 3/8-24	0.375	3.937	0.787	1.535	0.381	0.286	0.437	3

DIN/ANSI	Designation THL	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N
	AEP2326002-UNF7/16	UNF 7/16-20	0.438	3.937	0.787	2.862	0.323	0.242	0.406	3
	AEP2326002-UNF1/2	UNF 1/2-20	0.500	3.937	0.827	2.831	0.367	0.275	0.437	4
	AEP2326002-UNF9/16	UNF 9/16-12	0.563	3.937	0.827	2.768	0.429	0.322	0.500	4
	AEP2326002-UNF5/8	UNF 5/8-18	0.625	3.937	0.827	2.193	0.480	0.360	0.563	4
	AEP2326002-UNF3/4	UNF 3/4-16	0.750	4.331	0.945	2.461	0.590	0.442	0.689	4

WALTER
SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

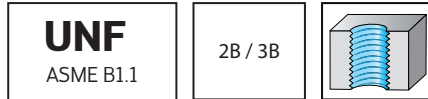
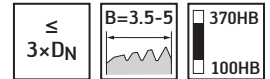
HSS-E machine taps

TC217 Advance

inch shank

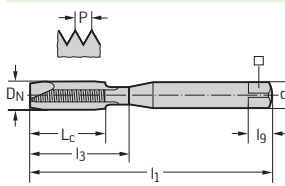


- Universal cut tap
- For 2B and 3B tolerances
- WY80FC: best chip control
- WY80RG: good chip control, good wear resistance



	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●	●●	●●	●●
WY80RG (TiAlN)	●●	●●	●●	●●	●●	●●	●●

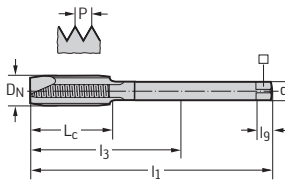
DIN/ANSI



Designation	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l ₉ in	N	WY80FC	WY80RG
TC217.UNF0-G0-	UNF 0-80	0.060	1.575	0.256	0.256	0.141	0.110	0.190	2	●●	●●
TC217.UNF1-G0-	UNF 1-72	0.073	1.772	0.236	0.354	0.141	0.110	0.190	2	●●	●●
TC217.UNF3-G0-	UNF 3-56	0.099	1.969	0.315	0.492	0.141	0.110	0.190	2	●●	●●
TC217.UNF4-G0-	UNF 4-48	0.112	2.205	0.354	0.709	0.141	0.110	0.190	2	●●	●●
TC217.UNF5-G0-	UNF 5-44	0.125	2.205	0.394	0.709	0.141	0.110	0.190	2	●●	●●
TC217.UNF6-G0-	UNF 6-40	0.138	2.205	0.433	0.787	0.141	0.110	0.190	2	●●	●●
TC217.UNF8-G0-	UNF 8-36	0.164	2.480	0.472	0.827	0.168	0.131	0.250	3	●●	●●
TC217.UNF10-G0-	UNF 10-32	0.190	2.756	0.512	0.984	0.194	0.152	0.250	3	●●	●●
TC217.UNF12-G0-	UNF 12-28	0.216	3.150	0.591	1.181	0.220	0.165	0.281	3	●●	●●
TC217.UNF1/4-G0-	UNF 1/4-28	0.250	3.150	0.591	1.181	0.255	0.191	0.313	3	●●	●●
TC217.UNF5/16-G0-	UNF 5/16-24	0.313	3.543	0.709	1.378	0.318	0.238	0.380	3	●●	●●
TC217.UNF3/8-G0-	UNF 3/8-24	0.375	3.543	0.787	1.535	0.381	0.286	0.437	3	●●	●●

Order example for grade WY80RG: TC217.UNF0-G0-WY80RG

DIN/ANSI



Designation	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l ₉ in	N	WY80FC	WY80RG
TC217.UNF7/16-R0-	UNF 7/16-20	0.438	3.937	0.787	2.862	0.323	0.242	0.406	3	●●	●●
TC217.UNF1/2-R0-	UNF 1/2-20	0.500	3.937	0.827	2.831	0.367	0.275	0.437	4	●●	●●
TC217.UNF9/16-R0-	UNF 9/16-18	0.563	3.937	0.827	2.768	0.429	0.322	0.500	4	●●	●●
TC217.UNF5/8-R0-	UNF 5/8-18	0.625	3.937	0.827	2.193	0.480	0.360	0.563	4	●●	●●
TC217.UNF3/4-R0-	UNF 3/4-16	0.750	4.331	0.945	2.461	0.590	0.442	0.689	4	●●	●●
TC217.UNF7/8-R0-	UNF 7/8-14	0.875	4.921	0.945	2.992	0.697	0.523	0.750	4	●●	●●
TC217.UNF1.0-R0-	UNF 1"-12	1.000	5.512	1.024	2.969	0.800	0.600	0.811	4	●●	●●

Order example for grade WY80RG: TC217.UNF7/16-R0-WY80RG

WALTER
SELECT

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

TC216 Perform

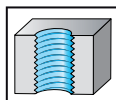
inch shank



– Universal cut tap

UNF
ASME B1.1

2B


 $\leq 3 \times D_N$
 $B=3.5-5$

300HB
100HB

	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●●	●●	●●	●●	●●	●●

DIN/ANSI

Designation	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N	WY80AA
TC216.UNF10-C0-	UNF 10-32	0.190	2.756	0.512	0.984	0.194	0.152	0.250	3	●●
TC216.UNF1/4-C0-	UNF 1/4-28	0.250	3.150	0.591	1.181	0.255	0.191	0.313	3	●●
TC216.UNF5/16-C0-	UNF 5/16-24	0.313	3.543	0.709	1.378	0.318	0.238	0.380	3	●●
TC216.UNF3/8-C0-	UNF 3/8-24	0.375	3.937	0.787	1.535	0.381	0.286	0.437	3	●●

Order example for grade WY80AA: TC216.UNF10-C0-WY80AA

DIN/ANSI

Designation	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N	WY80AA
TC216.UNF7/16-L0-	UNF 7/16-20	0.438	3.937	0.787	2.862	0.323	0.242	0.406	3	●●
TC216.UNF1/2-L0-	UNF 1/2-20	0.500	3.937	0.827	2.831	0.367	0.275	0.437	4	●●
TC216.UNF9/16-L0-	UNF 9/16-18	0.563	3.937	0.827	2.768	0.429	0.322	0.500	4	●●
TC216.UNF5/8-L0-	UNF 5/8-18	0.625	3.937	0.827	2.193	0.480	0.360	0.563	4	●●
TC216.UNF3/4-L0-	UNF 3/4-16	0.750	4.331	0.945	2.461	0.590	0.442	0.689	4	●●

Order example for grade WY80AA: TC216.UNF9/16-L0-WY80AA

**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Prototex® Synchrospeed

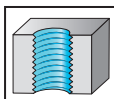
inch shank



– For long-chipping materials

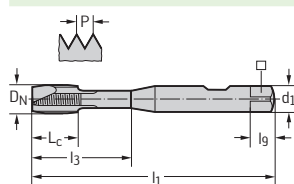
UNF
ASME B1.1

2B



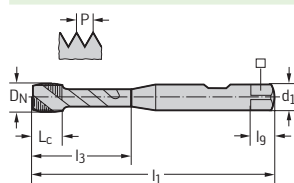
	P	M	K	N	S	H	O
TIN	●●	●●	●●	●●	●●	●●	●●

DIN/ANSI



Designation TIN	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N
AS2321005-UNF10	UNF 10-32	0.190	2.756	0.311	0.984	0.194	0.152	0.250	3
AS2321005-UNF1/4	UNF 1/4-28	0.250	3.150	0.358	1.181	0.255	0.191	0.313	3

DIN/ANSI



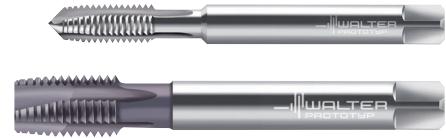
Designation TIN	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N
AS2326005-UNF1/2	UNF 1/2-20	0.500	3.937	0.500	2.831	0.367	0.275	0.437	3
AS2326005-UNF5/8	UNF 5/8-18	0.625	3.937	0.555	2.193	0.480	0.360	0.563	4

C4

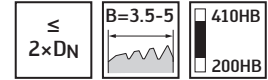
**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Prototex® TiNi
inch shank


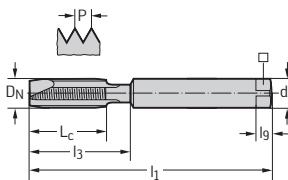
- Recommended with oil
- For long-chipping materials



	P	M	K	N	S	H	O
TiCN	●●	●●	●●	●●	●●	●●	●●
uncoated	●●	●●	●●	●●	●●	●●	●●

ANSI B94.9

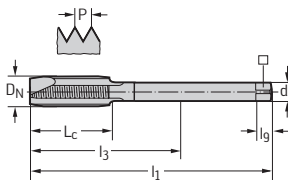
Cylindrical shank



Designation TiCN	Designation uncoated	DN-P	DN in	h9 in	Lc in	l3 in	d1 in	□ in	lg in	N
A2320766-UNF0	A2320760-UNF0	UNF 0-80	0.060	1.626	0.217	0.217	0.141	0.110	0.190	2
A2320766-UNF1		UNF 1-72	0.073	1.689	0.276	0.276	0.141	0.110	0.190	2
	A2320760-UNF8	UNF 8-36	0.164	2.126	0.591	0.591	0.168	0.131	0.250	3
A2320766-UNF10	A2320760-UNF10	UNF 10-32	0.190	2.378	0.709	0.709	0.194	0.152	0.250	3
A2320766-UNF12		UNF 12-28	0.216	2.378	0.787	0.787	0.220	0.165	0.281	3
A2320766-UNF1/4	A2320760-UNF1/4	UNF 1/4-28	0.250	2.500	0.630	1.102	0.255	0.191	0.313	3
A2320766-UNF5/16	A2320760-UNF5/16	UNF 5/16-24	0.313	2.717	0.748	1.299	0.318	0.238	0.380	3
A2320766-UNF3/8	A2320760-UNF3/8	UNF 3/8-24	0.375	2.937	0.748	1.398	0.381	0.286	0.437	3

ANSI B94.9

Cylindrical shank



Designation TiCN	Designation uncoated	DN-P	DN in	h9 in	Lc in	l3 in	d1 in	□ in	lg in	N
A2325766-UNF7/16	A2325760-UNF7/16	UNF 7/16-20	0.438	3.157	0.866	2.083	0.323	0.242	0.406	4
A2325766-UNF1/2	A2325760-UNF1/2	UNF 1/2-20	0.500	3.378	0.945	2.272	0.367	0.275	0.437	4
A2325766-UNF9/16	A2325760-UNF9/16	UNF 9/16-18	0.563	3.594	1.024	2.425	0.429	0.322	0.500	4
A2325766-UNF5/8	A2325760-UNF5/8	UNF 5/8-18	0.625	3.811	1.102	2.067	0.480	0.360	0.563	4
A2325766-UNF3/4	A2325760-UNF3/4	UNF 3/4-16	0.750	4.252	1.181	2.382	0.590	0.442	0.689	4
	A2325760-UNF7/8	UNF 7/8-14	0.875	4.685	1.260	2.756	0.697	0.523	0.750	4

**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

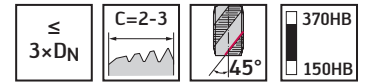
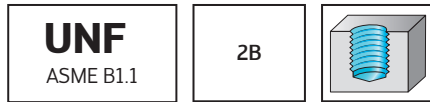
HSS-E PM machine taps

Paradur® Eco Plus

inch shank



- Universal high-performance cut tap
- THL: good chip control and good wear resistance



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●	●●	●●	●●

DIN/ANSI	Designation THL	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
	AEP2351302-UNF10	UNF 10-32	0.190	2.756	0.315	0.791	0.194	0.152	0.250	3
	AEP2351302-UNF1/4	UNF 1/4-28	0.250	3.150	0.394	1.020	0.255	0.191	0.313	3
	AEP2351302-UNF5/16	UNF 5/16-24	0.313	3.543	0.472	1.378	0.318	0.238	0.380	3
	AEP2351302-UNF3/8	UNF 3/8-24	0.375	3.937	0.472	1.535	0.381	0.286	0.437	3

DIN/ANSI	Designation THL	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
	AEP2356302-UNF7/16	UNF 7/16-20	0.438	3.937	0.591	2.862	0.323	0.242	0.406	3
	AEP2356302-UNF1/2	UNF 1/2-20	0.500	3.937	0.512	2.831	0.367	0.275	0.437	4
	AEP2356302-UNF9/16	UNF 9/16-18	0.563	3.937	0.591	2.768	0.429	0.322	0.500	4
	AEP2356302-UNF5/8	UNF 5/8-18	0.625	3.937	0.591	2.193	0.480	0.360	0.563	4
	AEP2356302-UNF3/4	UNF 3/4-16	0.750	4.331	0.669	2.461	0.590	0.442	0.689	4

C4

WALTER
SELECT

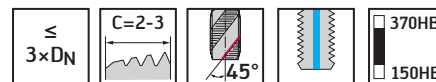
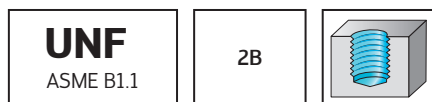
●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® Eco Plus inch shank



- Universal high-performance cut tap
- THL: good chip control and good wear resistance



	P	M	K	N	S	H	O
THL	●	●	●	●			

DIN/ANSI	Designation THL	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h ₉ in	□ in	l _g in	N
	AEP2351312-UNF1/4	UNF 1/4-28	0.250	3.150	0.394	1.020	0.255	0.191	0.313	3
	AEP2351312-UNF5/16	UNF 5/16-24	0.313	3.543	0.472	1.378	0.318	0.238	0.380	3
	AEP2351312-UNF3/8	UNF 3/8-24	0.375	3.937	0.472	1.535	0.381	0.286	0.437	3

DIN/ANSI	Designation THL	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h ₉ in	□ in	l _g in	N
	AEP2356312-UNF7/16	UNF 7/16-20	0.438	3.937	0.591	2.862	0.323	0.242	0.406	3
	AEP2356312-UNF1/2	UNF 1/2-20	0.500	3.937	0.512	2.831	0.367	0.275	0.437	4
	AEP2356312-UNF5/8	UNF 5/8-18	0.625	3.937	0.591	2.193	0.480	0.360	0.563	4
	AEP2356312-UNF3/4	UNF 3/4-16	0.750	4.331	0.669	2.461	0.590	0.442	0.689	4

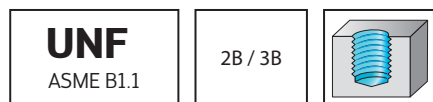
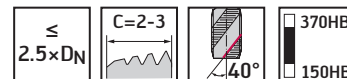
HSS-E machine taps

TC117 Advance

inch shank



- Universal cut tap
- For 2B and 3B tolerances
- WY80FC: best chip control
- WY80RG: good chip control, good wear resistance



	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●	●●	●●	●●
WY80RG (TiAlN)	●●	●●	●●	●●	●●	●●	●●

DIN/ANSI

Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80FC	WY80RG
TC117.UNF0-G0-	UNF 0-80	0.060	1.575	0.197	0.197	0.141	0.110	0.190	3	●●	●●
TC117.UNF1-G0-	UNF 1-72	0.073	1.772	0.157	0.354	0.141	0.110	0.190	3	●●	●●
TC117.UNF2-G0-	UNF 2-64	0.086	1.772	0.157	0.472	0.141	0.110	0.190	3	●●	●●
TC117.UNF3-G0-	UNF 3-56	0.099	1.969	0.157	0.492	0.141	0.110	0.190	3	●●	●●
TC117.UNF4-G0-	UNF 4-48	0.112	2.205	0.236	0.709	0.141	0.110	0.190	3	●●	●●
TC117.UNF5-G0-	UNF 5-44	0.125	2.205	0.236	0.709	0.141	0.110	0.190	3	●●	●●
TC117.UNF6-G0-	UNF 6-40	0.138	2.205	0.256	0.787	0.141	0.110	0.190	3	●●	●●
TC117.UNF8-G0-	UNF 8-36	0.164	2.480	0.276	0.827	0.168	0.131	0.250	3	●●	●●
TC117.UNF10-G0-	UNF 10-32	0.190	2.756	0.315	0.984	0.194	0.152	0.250	3	●●	●●
TC117.UNF12-G0-	UNF 12-28	0.216	3.150	0.394	1.181	0.220	0.165	0.281	3	●●	●●
TC117.UNF1/4-G0-	UNF 1/4-28	0.250	3.150	0.394	1.181	0.255	0.191	0.313	3	●●	●●
TC117.UNF5/16-G0-	UNF 5/16-24	0.313	3.543	0.472	1.378	0.318	0.238	0.380	3	●●	●●
TC117.UNF3/8-G0-	UNF 3/8-24	0.375	3.543	0.472	1.535	0.381	0.286	0.437	3	●●	●●

Order example for grade WY80RG: TC117.UNF0-G0-WY80RG

DIN/ANSI

Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80FC	WY80RG
TC117.UNF7/16-R0-	UNF 7/16-20	0.438	3.937	0.591	2.862	0.323	0.242	0.406	3	●●	●●
TC117.UNF1/2-R0-	UNF 1/2-20	0.500	3.937	0.591	2.831	0.367	0.275	0.437	4	●●	●●
TC117.UNF9/16-R0-	UNF 9/16-18	0.563	3.937	0.591	2.768	0.429	0.322	0.500	4	●●	●●
TC117.UNF5/8-R0-	UNF 5/8-18	0.625	3.937	0.591	2.193	0.480	0.360	0.563	4	●●	●●
TC117.UNF3/4-R0-	UNF 3/4-16	0.750	4.331	0.669	2.461	0.590	0.442	0.689	4	●●	●●
TC117.UNF7/8-R0-	UNF 7/8-14	0.875	4.921	0.709	2.992	0.697	0.523	0.750	4	●●	●●
TC117.UNF1.0-R0-	UNF 1"-12	1.000	5.512	0.787	2.969	0.800	0.600	0.811	5	●●	●●
TC117.UNF1.1/8-R0-	UNF 1.1/8-12	1.125	5.906	0.787	3.291	0.896	0.672	0.880	5	●●	●●
TC117.UNF1.1/4-R0-	UNF 1.1/4-12	1.250	5.906	0.787	3.173	1.021	0.766	1.000	5	●●	●●

Order example for grade WY80RG: TC117.UNF7/16-R0-WY80RG

WALTER
SELECT

●● Primary application ● Other application

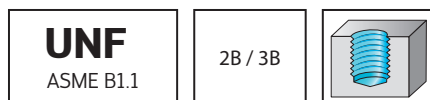
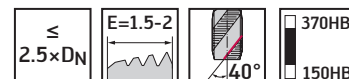
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

TC117 Advance inch shank



- Universal cut tap
- For 2B and 3B tolerances
- WY80FC: best chip control



	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●	●●	●●	●●

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h ₉ in	□ in	l ₉ in	N	WY80FC
	TC117.UNF0-GE-	UNF 0-80	0.060	1.575	0.197	0.197	0.141	0.110	0.190	3	●●
	TC117.UNF10-GE-	UNF 10-32	0.190	2.756	0.315	0.984	0.194	0.152	0.250	3	●●
	TC117.UNF1/4-GE-	UNF 1/4-28	0.250	3.150	0.394	1.181	0.255	0.191	0.313	3	●●
	TC117.UNF5/16-GE-	UNF 5/16-24	0.313	3.543	0.472	1.378	0.318	0.238	0.380	3	●●
	TC117.UNF3/8-GE-	UNF 3/8-24	0.375	3.543	0.472	1.535	0.381	0.286	0.437	3	●●

Order example for grade WY80FC: TC117.UNF0-GE-WY80FC

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h ₉ in	□ in	l ₉ in	N	WY80FC
	TC117.UNF7/16-RE-	UNF 7/16-20	0.438	3.937	0.591	2.862	0.323	0.242	0.406	3	●●
	TC117.UNF1/2-RE-	UNF 1/2-20	0.500	3.937	0.591	2.831	0.367	0.275	0.437	4	●●
	TC117.UNF9/16-RE-	UNF 9/16-18	0.563	3.937	0.591	2.768	0.429	0.322	0.500	4	●●
	TC117.UNF5/8-RE-	UNF 5/8-18	0.625	3.937	0.591	2.193	0.480	0.360	0.563	4	●●
	TC117.UNF3/4-RE-	UNF 3/4-16	0.750	4.331	0.669	2.461	0.590	0.442	0.689	4	●●

Order example for grade WY80FC: TC117.UNF7/16-RE-WY80FC

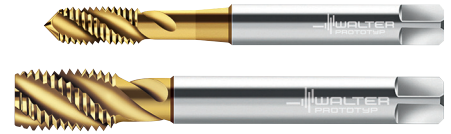
WALTER
SELECT

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

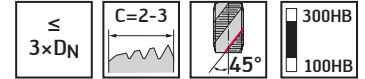
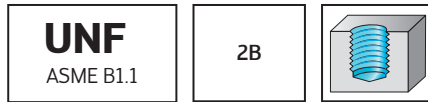
HSS-E machine taps

TC115 Perform

inch shank



– Universal cut tap



	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●●	●●	●			

DIN/ANSI

	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80AA
	TC115.UNF10-C0-	UNF 10-32	0.190	2.756	0.315	0.984	0.194	0.152	0.250	3	✖
	TC115.UNF1/4-C0-	UNF 1/4-28	0.250	3.150	0.394	1.181	0.255	0.191	0.313	3	✖
	TC115.UNF5/16-C0-	UNF 5/16-24	0.313	3.543	0.472	1.378	0.318	0.238	0.380	3	✖
	TC115.UNF3/8-C0-	UNF 3/8-24	0.375	3.937	0.472	1.535	0.381	0.286	0.437	3	✖

Order example for grade WY80AA: TC115.UNF10-C0-WY80AA

DIN/ANSI

	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80AA
	TC115.UNF7/16-L0-	UNF 7/16-20	0.438	3.937	0.591	2.862	0.323	0.242	0.406	3	✖
	TC115.UNF1/2-L0-	UNF 1/2-20	0.500	3.937	0.512	2.831	0.367	0.275	0.437	4	✖
	TC115.UNF9/16-L0-	UNF 9/16-18	0.563	3.937	0.591	2.768	0.429	0.322	0.500	4	✖
	TC115.UNF5/8-L0-	UNF 5/8-18	0.625	3.937	0.591	2.193	0.480	0.360	0.563	4	✖
	TC115.UNF3/4-L0-	UNF 3/4-16	0.750	4.331	0.669	2.461	0.590	0.442	0.689	4	✖

Order example for grade WY80AA: TC115.UNF9/16-L0-WY80AA

WALTER
SELECT

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine taps

Paradur® Synchrospeed

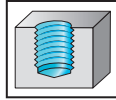
inch shank



– For long-chipping materials

UNF
ASME B1.1

2B



$\leq$
 $2.5 \times D_N$

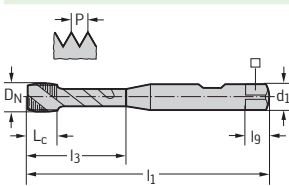
C=2-3

40°

380HB

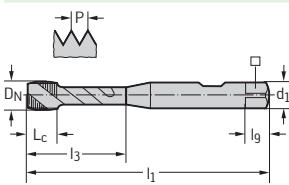
	P	M	K	N	S	H	O
TIN/VAP	●●	●●	●●	●	●		●

DIN/ANSI



Designation TIN/VAP	D_N -P	D_N in	l_1 in	L_c in	l_3 in	d_1 h9 in	$\square$ in	l_g in	N
AS2351005-UNF10	UNF 10-32	0.190	2.756	0.335	0.984	0.194	0.152	0.250	3
AS2351005-UNF1/4	UNF 1/4-28	0.250	3.150	0.374	1.181	0.255	0.191	0.313	3
AS2351005-UNF5/16	UNF 5/16-24	0.313	3.543	0.433	1.378	0.318	0.238	0.380	3
AS2351005-UNF3/8	UNF 3/8-24	0.375	3.937	0.433	1.535	0.381	0.286	0.437	3

DIN/ANSI



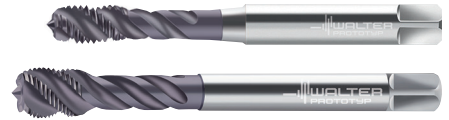
Designation TIN/VAP	D_N -P	D_N in	l_1 in	L_c in	l_3 in	d_1 h9 in	$\square$ in	l_g in	N
AS2356005-UNF7/16	UNF 7/16-20	0.438	3.937	0.531	2.862	0.323	0.242	0.406	3
AS2356005-UNF1/2	UNF 1/2-20	0.500	3.937	0.531	2.831	0.367	0.275	0.437	4

C4

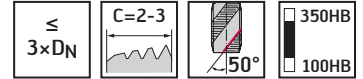
**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E (-PM) machine taps

TC142 Supreme inch shank

- For stainless steels
- WY80FC: best chip control



	P	M	K	N	S	H	O
WY80FC (VAP)	●	●●					

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80FC
	TC142.UNF10-C0-	UNF 10-32	0.190	2.756	0.315	0.984	0.194	0.152	0.250	3	☼
	TC142.UNF1/4-C0-	UNF 1/4-28	0.250	3.150	0.394	1.181	0.255	0.191	0.313	3	☼
	TC142.UNF5/16-C0-	UNF 5/16-24	0.313	3.543	0.472	1.378	0.318	0.238	0.380	3	☼
	TC142.UNF3/8-C0-	UNF 3/8-24	0.375	3.937	0.472	1.535	0.381	0.286	0.437	3	☼

Order example for grade WY80FC: TC142.UNF10-C0-WY80FC

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80FC
	TC142.UNF7/16-L0-	UNF 7/16-20	0.438	3.937	0.591	2.862	0.323	0.242	0.406	3	☼
	TC142.UNF1/2-L0-	UNF 1/2-20	0.500	3.937	0.591	2.831	0.367	0.275	0.437	4	☼

Order example for grade WY80FC: TC142.UNF7/16-L0-WY80FC

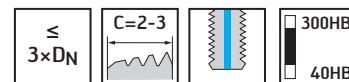
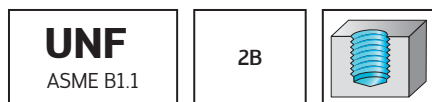
HSS-E PM machine taps

Paradur® Eco CI

inch shank

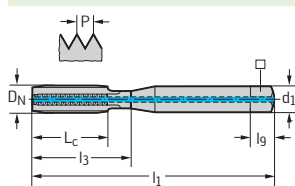


- For short-chipping ISO K materials (GJL / CGI)
- For short-chipping aluminum alloys (Si content > 7 %)



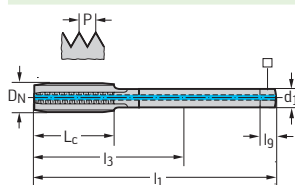
TICN	P	M	K	N	S	H	O
			●●	●●			●●

DIN/ANSI



Designation TICN	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
AE2331416-UNF12	UNF 12-28	0.216	3.150	0.591	1.181	0.220	0.165	0.281	4
AE2331416-UNF1/4	UNF 1/4-28	0.250	3.150	0.591	1.181	0.255	0.191	0.313	4
AE2331416-UNF5/16	UNF 5/16-24	0.313	3.543	0.709	1.378	0.318	0.238	0.380	4
AE2331416-UNF3/8	UNF 3/8-24	0.375	3.937	0.787	1.535	0.381	0.286	0.437	4

DIN/ANSI



Designation TICN	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
AE2336416-UNF7/16	UNF 7/16-20	0.438	3.937	0.787	2.862	0.323	0.242	0.406	4
AE2336416-UNF1/2	UNF 1/2-20	0.500	3.937	0.827	2.831	0.367	0.275	0.437	4
AE2336416-UNF9/16	UNF 9/16-18	0.563	3.937	0.827	2.768	0.429	0.322	0.500	4
AE2336416-UNF5/8	UNF 5/8-18	0.625	3.937	0.827	2.193	0.480	0.360	0.563	4
AE2336416-UNF3/4	UNF 3/4-16	0.750	4.331	0.945	2.461	0.590	0.442	0.689	4
AE2336416-UNF7/8	UNF 7/8-14	0.875	4.921	0.945	2.992	0.697	0.523	0.750	5

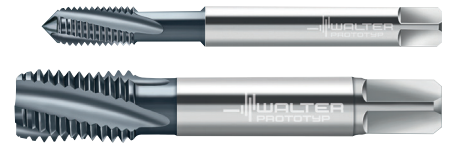
WALTER
SELECT

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® Ti

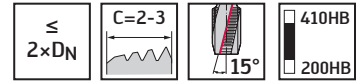
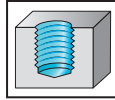
inch shank



- Recommended with oil
- For long-chipping materials

UNF
ASME B1.1

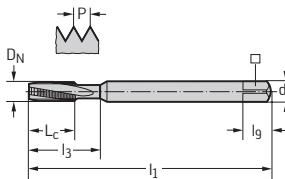
3B



	P	M	K	N	S	H	O
TICN	●●			●	●●		
VAP	●●			●	●●		

ANSI B94.9

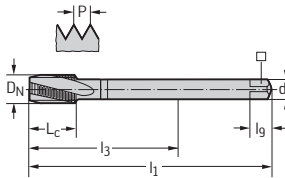
Cylindrical shank



Designation TICN	Designation VAP	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
A2340606-UNF0	A23406S-UNF0	UNF 0-80	0.060	1.626	0.217	0.217	0.141	0.110	0.190	2
	A23406S-UNF1	UNF 1-72	0.073	1.689	0.276	0.276	0.141	0.110	0.190	2
	A23406S-UNF6	UNF 6-40	0.138	2.000	0.512	1.220	0.141	0.110	0.190	3
A2340606-UNF8		UNF 8-36	0.164	2.126	0.591	1.283	0.168	0.131	0.250	3
A2340606-UNF10	A23406S-UNF10	UNF 10-32	0.190	2.378	0.709	0.709	0.194	0.152	0.250	3
A2340606-UNF1/4	A23406S-UNF1/4	UNF 1/4-28	0.250	2.500	0.630	1.102	0.255	0.191	0.313	3
A2340606-UNF5/16	A23406S-UNF5/16	UNF 5/16-24	0.313	2.717	0.748	1.299	0.318	0.238	0.380	3
	A23406S-UNF3/8	UNF 3/8-24	0.375	2.937	0.748	1.398	0.381	0.286	0.437	3

ANSI B94.9

Cylindrical shank



Designation TICN	Designation VAP	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
A2345606-UNF7/16	A23456S-UNF7/16	UNF 7/16-20	0.438	3.157	0.866	2.083	0.323	0.242	0.406	4
A2345606-UNF1/2	A23456S-UNF1/2	UNF 1/2-20	0.500	3.378	0.945	2.272	0.367	0.275	0.437	4
A2345606-UNF9/16		UNF 9/16-18	0.563	3.594	1.024	2.425	0.429	0.322	0.500	4
	A23456S-UNF3/4	UNF 3/4-16	0.750	4.252	1.181	2.382	0.590	0.442	0.689	4
	A23456S-UNF7/8	UNF 7/8-14	0.875	4.685	1.260	2.756	0.697	0.523	0.750	4
A2345606-UNF1		UNF 1"-12	1.000	5.126	1.457	2.583	0.800	0.600	0.811	4

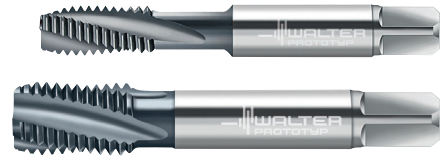
**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

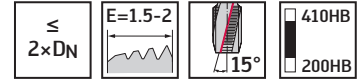
HSS-E machine taps

Paradur® Ti

inch shank



- Recommended with oil
- For long-chipping materials



	P	M	K	N	S	H	O
VAP	●●			●	●●		

ANSI B94.9		Designation VAP	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
Cylindrical shank		A2340661S-UNF0	UNF 0-80	0.060	1.626	0.217	0.217	0.141	0.110	0.190	2
		A2340661S-UNF1	UNF 1-72	0.073	1.689	0.276	0.276	0.141	0.110	0.190	2
		A2340661S-UNF10	UNF 10-32	0.190	2.378	0.709	0.709	0.194	0.152	0.250	3
		A2340661S-UNF1/4	UNF 1/4-28	0.250	2.500	0.630	1.102	0.255	0.191	0.313	3
		A2340661S-UNF5/16	UNF 5/16-24	0.313	2.717	0.748	1.299	0.318	0.238	0.380	3

ANSI B94.9		Designation VAP	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
Cylindrical shank		A2345661S-UNF7/16	UNF 7/16-20	0.438	3.157	0.866	2.083	0.323	0.242	0.406	4
		A2345661S-UNF1/2	UNF 1/2-20	0.500	3.378	0.945	2.272	0.367	0.275	0.437	4

C4

WALTER
SELECT

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® Ni

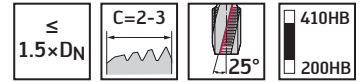
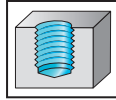
inch shank



– For long-chipping materials

UNF
ASME B1.1

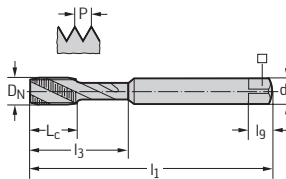
3B



	P	M	K	N	S	H	O
TICN	●				●●		
VAP	●				●●		

ANSI B94.9

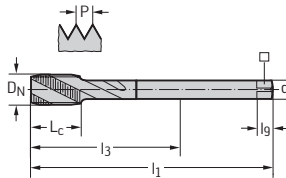
Cylindrical shank



Designation TICN	Designation VAP	D _N -P	D _N in	l ₁ in	l _C in	l ₃ in	d ₁ h9 in	□ in	l ₉ in	N
A2340806-UNF0		UNF 0-80	0.060	1.626	0.217	0.217	0.141	0.110	0.190	2
A2340806-UNF1		UNF 1-72	0.073	1.689	0.276	0.276	0.141	0.110	0.190	2
	A234002S-UNF6	UNF 6-40	0.138	2.000	0.512	1.220	0.141	0.110	0.190	3
	A234002S-UNF8	UNF 8-36	0.164	2.126	0.591	1.283	0.168	0.131	0.250	3
A2340806-UNF10	A234002S-UNF10	UNF 10-32	0.190	2.378	0.709	0.709	0.194	0.152	0.250	3
	A234002S-UNF12	UNF 12-28	0.216	2.378	0.787	1.504	0.220	0.165	0.281	3
A2340806-UNF1/4	A234002S-UNF1/4	UNF 1/4-28	0.250	2.500	0.630	1.102	0.255	0.191	0.313	3
A2340806-UNF5/16	A234002S-UNF5/16	UNF 5/16-24	0.313	2.717	0.748	1.299	0.318	0.238	0.380	3
A2340806-UNF3/8	A234002S-UNF3/8	UNF 3/8-24	0.375	2.937	0.748	1.398	0.381	0.286	0.437	3

ANSI B94.9

Cylindrical shank



Designation TICN	Designation VAP	D _N -P	D _N in	l ₁ in	l _C in	l ₃ in	d ₁ h9 in	□ in	l ₉ in	N
A2345806-UNF7/16	A234502S-UNF7/16	UNF 7/16-20	0.438	3.157	0.866	2.083	0.323	0.242	0.406	4
A2345806-UNF1/2	A234502S-UNF1/2	UNF 1/2-20	0.500	3.378	0.945	2.272	0.367	0.275	0.437	4
A2345806-UNF9/16	A234502S-UNF9/16	UNF 9/16-18	0.563	3.594	1.024	2.425	0.429	0.322	0.500	4
A2345806-UNF5/8		UNF 5/8-18	0.625	3.811	1.102	2.067	0.480	0.360	0.563	4
A2345806-UNF3/4	A234502S-UNF3/4	UNF 3/4-16	0.750	4.252	1.181	2.382	0.590	0.442	0.689	5

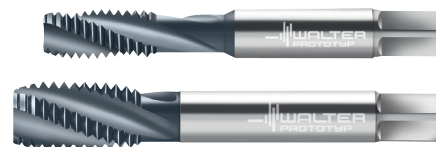
**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

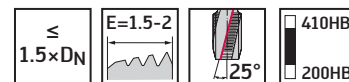
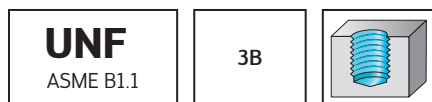
HSS-E machine taps

Paradur® Ni

inch shank



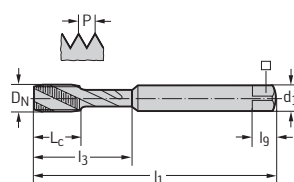
– For long-chipping materials



	P	M	K	N	S	H	O
VAP	●				●●		

ANSI B94.9

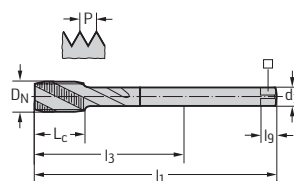
Cylindrical shank



Designation VAP	DN-P	DN in	l1 in	Lc in	l3 in	d1 h9 in	□ in	lg in	N
A234003S-UNF0	UNF 0-80	0.060	1.626	0.217	0.217	0.141	0.110	0.190	2
A234003S-UNF10	UNF 10-32	0.190	2.378	0.709	0.709	0.194	0.152	0.250	3
A234003S-UNF1/4	UNF 1/4-28	0.250	2.500	0.630	1.102	0.255	0.191	0.313	3
A234003S-UNF5/16	UNF 5/16-24	0.313	2.717	0.748	1.299	0.318	0.238	0.380	3
A234003S-UNF3/8	UNF 3/8-24	0.375	2.937	0.748	1.398	0.381	0.286	0.437	3

ANSI B94.9

Cylindrical shank



Designation VAP	DN-P	DN in	l1 in	Lc in	l3 in	d1 h9 in	□ in	lg in	N
A234503S-UNF7/16	UNF 7/16-20	0.438	3.157	0.866	2.083	0.323	0.242	0.406	4
A234503S-UNF1/2	UNF 1/2-20	0.500	3.378	0.945	2.272	0.367	0.275	0.437	4
A234503S-UNF9/16	UNF 9/16-18	0.563	3.594	1.024	2.425	0.429	0.322	0.500	4
A234503S-UNF3/4	UNF 3/4-16	0.750	4.252	1.181	2.382	0.590	0.442	0.689	5

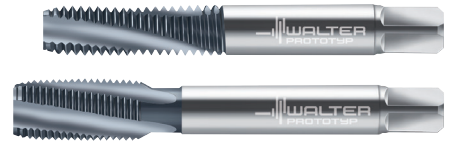
WALTER
SELECT

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

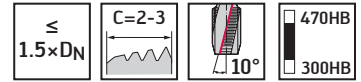
HSS-E PM machine taps

Paradur® Ni 10

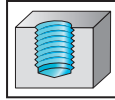
inch shank



– For long- and short-chipping materials


UNF
ASME B1.1

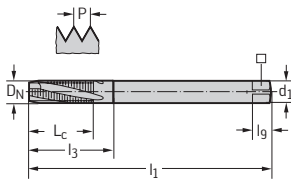
3B



	P	M	K	N	S	H	O
TICN	●●			●	●●		

ANSI B94.9

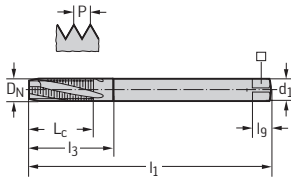
Cylindrical shank



Designation TICN	DN-P	DN in	l1 in	Lc in	l3 in	d1 h9 in	□ in	lg in	N
A2340876-UNF0	UNF 0-80	0.060	1.626	0.217	0.848	0.141	0.110	0.190	3
A2340876-UNF1	UNF 1-72	0.073	1.689	0.276	0.911	0.141	0.110	0.190	3
A2340876-UNF8	UNF 8-36	0.164	2.126	0.512	1.285	0.168	0.131	0.250	3
A2340876-UNF10	UNF 10-32	0.190	2.378	0.630	1.537	0.194	0.152	0.250	3
A2340876-UNF1/4	UNF 1/4-28	0.250	2.500	0.787	1.596	0.255	0.191	0.313	3
A2340876-UNF5/16	UNF 5/16-24	0.313	2.717	0.984	1.746	0.318	0.238	0.380	3
A2340876-UNF3/8	UNF 3/8-24	0.375	2.937	1.181	1.831	0.381	0.286	0.437	3

ANSI B94.9

Cylindrical shank



Designation TICN	DN-P	DN in	l1 in	Lc in	l3 in	d1 h9 in	□ in	lg in	N
A2345876-UNF7/16	UNF 7/16-20	0.438	3.157	0.866	2.083	0.323	0.242	0.406	4
A2345876-UNF1/2	UNF 1/2-20	0.500	3.378	0.945	2.272	0.367	0.275	0.437	4

**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

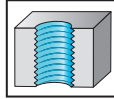
TC217 Advance inch shank



– Universal cut tap

UNF
ASME B1.1

+0.003"
(H7)



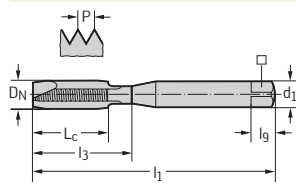
$\leq$
 $3 \times D_N$

$B=3.5-5$

370HB
100HB

	P	M	K	N	S	H	O
WY80RG (TiAlN)	●●	●●	●●	●●			

DIN/ANSI



Designation	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	$\square$ in	l _g in	N	WY80RG
TC217.UNF6-E0-	UNF 6-40	0.138	2.205	0.433	0.787	0.141	0.110	0.190	2	●●
TC217.UNF10-E0-	UNF 10-32	0.190	2.756	0.512	0.984	0.194	0.152	0.250	3	●●
TC217.UNF1/4-E0-	UNF 1/4-28	0.250	3.150	0.591	1.181	0.255	0.191	0.313	3	●●
TC217.UNF5/16-E0-	UNF 5/16-24	0.313	3.543	0.709	1.378	0.318	0.238	0.380	3	●●

Order example for grade WY80RG: TC217.UNF6-E0-WY80RG

HSS-E machine taps

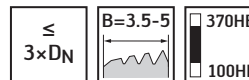
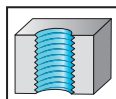
TC217 Advance

inch shank



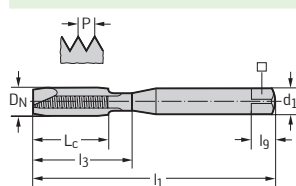
– Universal cut tap

UNF
ASME B1.1

+0.005"
(H11)


	P	M	K	N	S	H	O
WY80RG (TiAlN)	●●	●●	●●	●●			

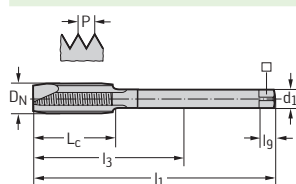
DIN/ANSI



Designation	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N	WY80RG
TC217.UNF3/8-F0-	UNF 3/8-24	0.375	3.543	0.787	1.535	0.381	0.286	0.437	3	☞

Order example for grade WY80RG: TC217.UNF3/8-F0-WY80RG

DIN/ANSI



Designation	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N	WY80RG
TC217.UNF7/16-P0-	UNF 7/16-20	0.438	3.937	0.787	2.862	0.323	0.242	0.406	3	☞
TC217.UNF1/2-P0-	UNF 1/2-20	0.500	3.937	0.827	2.831	0.367	0.275	0.437	4	☞

Order example for grade WY80RG: TC217.UNF7/16-P0-WY80RG

WALTER
SELECT

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☞ machining conditions

HSS-E machine taps

TC117 Advance

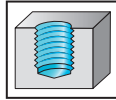
inch shank



– Universal cut tap

UNF
ASME B1.1

+.003"
(H7)



≤
2.5×D_N

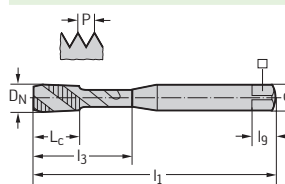
C=2-3

40°

370HB
150HB

	P	M	K	N	S	H	O
WY80RG (TiAlN)	●●	●●	●●	●●			

DIN/ANSI



Designation	D _N -P	D _N in	L ₁ in	L _C in	L ₃ in	d ₁ h9 in	□ in	L _g in	N	WY80RG
TC117.UNF10-E0-	UNF 10-32	0.190	2.756	0.315	0.984	0.194	0.152	0.250	3	●●
TC117.UNF1/4-E0-	UNF 1/4-28	0.250	3.150	0.394	1.181	0.255	0.191	0.313	3	●●
TC117.UNF5/16-E0-	UNF 5/16-24	0.313	3.543	0.472	1.378	0.318	0.238	0.380	3	●●

Order example for grade WY80RG: TC117.UNF10-E0-WY80RG

C4

**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

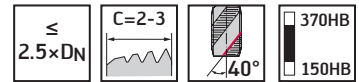
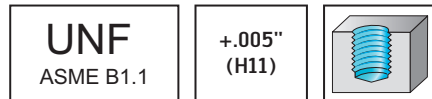
HSS-E machine taps

TC117 Advance

inch shank



– Universal cut tap



	P	M	K	N	S	H	O
WY80RG (TiAlN)	●●	●●	●●	●●			

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80RG
	TC117.UNF5/16-F0-	UNF 5/16-24	0.313	3.543	0.472	1.378	0.318	0.238	0.380	3	●●
	TC117.UNF3/8-F0-	UNF 3/8-24	0.375	3.543	0.472	1.535	0.381	0.286	0.437	3	●●

Order example for grade WY80RG: TC117.UNF5/16-F0-WY80RG

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80RG
	TC117.UNF7/16-P0-	UNF 7/16-20	0.438	3.937	0.591	2.862	0.323	0.242	0.406	3	●●
	TC117.UNF9/16-P0-	UNF 9/16-18	0.563	3.937	0.591	2.768	0.429	0.322	0.500	4	●●
	TC117.UNF5/8-P0-	UNF 5/8-18	0.625	3.937	0.591	2.193	0.480	0.360	0.563	4	●●
	TC117.UNF3/4-P0-	UNF 3/4-16	0.750	4.331	0.669	2.461	0.590	0.442	0.689	4	●●

Order example for grade WY80RG: TC117.UNF7/16-P0-WY80RG

WALTER
SELECT

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine taps

TC117 Advance

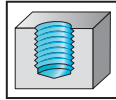
inch shank



- Universal cut tap
- For 2B and 3B tolerances
- WY80RG: good chip control, good wear resistance

UN-8
ASME B1.1

2B / 3B



$\leq 2.5 \times D_N$

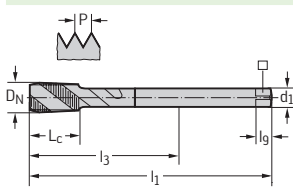
C=2-3

40°

370HB
150HB

	P	M	K	N	S	H	O
WY80RG (TiAlN)	●●	●●	●●	●●	●●	●●	●●

DIN/ANSI



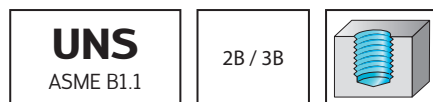
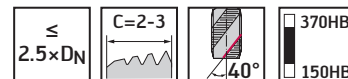
Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80RG
TC117.UN1.1/8-R0-	UN 1.1/8-8	1.125	7.087	1.181	4.472	0.896	0.672	0.880	5	●●
TC117.UN1.1/4-R0-	UN 1.1/4-8	1.250	7.087	1.181	4.354	1.021	0.766	1.000	5	●●
TC117.UN1.3/8-R0-	UN 1.3/8-8	1.375	7.874	1.181	4.016	1.108	0.831	1.063	5	●●
TC117.UN1.1/2-R0-	UN 1.1/2-8	1.500	7.874	1.181	3.953	1.233	0.925	1.126	5	●●
TC117.UN1.5/8-R0-	UN 1.5/8-8	1.625	7.874	1.299	3.953	1.305	0.979	1.126	6	●●

Order example for grade WY80RG: TC117.UN1.1/8-R0-WY80RG

HSS-E machine taps

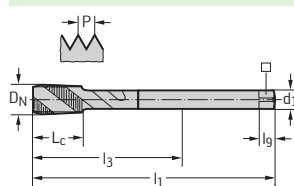
TC117 Advance **inch shank**

- Universal cut tap
- For 2B and 3B tolerances
- WY80FC: best chip control
- WY80RG: good chip control, good wear resistance



	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●	●●	●●	●●
WY80RG (TiAlN)	●●	●●	●●	●●	●●	●●	●●

DIN/ANSI

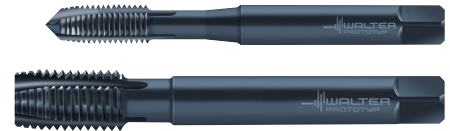


Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80FC	WY80RG
TC117.UNS1.0-R0-	UNS 1"-14	1.000	5.512	0.787	2.969	0.800	0.600	0.811	5	☞	☞

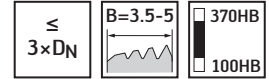
Order example for grade WY80RG: TC117.UNS1.0-R0-WY80RG

HSS-E machine taps

TC217 Advance



- Universal cut tap
- WY80FC: best chip control



	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●			

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N	WY80FC
	TC217.STIUNC2-B0-	STI-UNC 2-56	0.109	2.205	0.354	0.709	0.141	0.110	0.190	2	✖
	TC217.STIUNC4-B0-	STI-UNC 4-40	0.144	2.205	0.472	0.827	0.141	0.110	0.190	2	✖
	TC217.STIUNC6-B0-	STI-UNC 6-32	0.179	2.756	0.512	0.984	0.194	0.152	0.250	3	✖
	TC217.STIUNC8-B0-	STI-UNC 8-32	0.205	2.756	0.591	0.984	0.194	0.152	0.250	3	✖
	TC217.STIUNC10-B0-	STI-UNC 10-24	0.244	3.150	0.591	1.181	0.255	0.191	0.313	3	✖
	TC217.STIUNC1/4B0-	STI-UNC 1/4-20	0.315	3.543	0.709	1.378	0.318	0.238	0.380	3	✖

Order example for grade WY80FC: TC217.STIUNC2-B0-WY80FC

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N	WY80FC
	TC217.STIUNC3/8K0-	STI-UNC 3/8-16	0.456	3.937	0.827	2.831	0.367	0.275	0.437	4	✖

Order example for grade WY80FC: TC217.STIUNC3/8K0-WY80FC

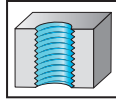
HSS-E PM machine taps

Prototex® TiNi **inch shank**


- Recommended with oil
- For long-chipping materials

STI-UNC
NASM 33537

3B

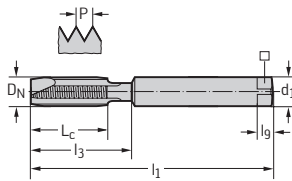

 $\leq 2 \times D_N$
 $B=3.5-5$

 410HB
200HB

	P	M	K	N	S	H	O
uncoated	●●	●●	●	●	●●	●	●

ANSI B94.9

	Designation uncoated	D_N -P	D_N in	l_1 h9 in	L_c in	l_3 in	d_1 in	$\square$ in	l_g in	N
Cylindrical shank	A222079-STIUNC2	STI-UNC 2-56	0.109	1.878	0.394	0.394	0.141	0.110	0.190	2
	A222079-STIUNC4	STI-UNC 4-40	0.144	2.000	0.591	0.591	0.141	0.110	0.190	3
	A222079-STIUNC6	STI-UNC 6-32	0.179	2.378	0.709	0.709	0.194	0.152	0.250	3
	A222079-STIUNC8	STI-UNC 8-32	0.205	2.378	0.787	0.787	0.220	0.165	0.281	3
	A222079-STIUNC1/4	STI-UNC 1/4-20	0.315	2.717	0.748	1.299	0.318	0.238	0.380	3



HSS-E machine taps

TC117 Advance

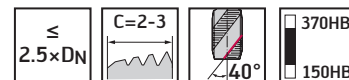
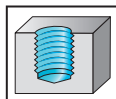
inch shank



- Universal cut tap
- WY80FC: best chip control

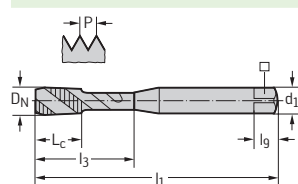
STI-UNC
NASM 33537

3B



	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●	●●	●●	●●

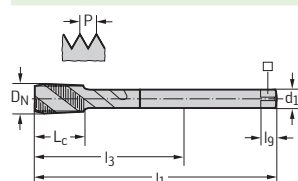
DIN/ANSI



Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	in	l _g in	N	WY80FC
TC117.STIUNC2-B0-	STI-UNC 2-56	0.109	2.205	0.236	0.709	0.141	0.110	0.190	3	●●
TC117.STIUNC4-B0-	STI-UNC 4-40	0.144	2.205	0.276	0.827	0.141	0.110	0.190	3	●●
TC117.STIUNC6-B0-	STI-UNC 6-32	0.179	2.756	0.315	0.984	0.194	0.152	0.250	3	●●
TC117.STIUNC8-B0-	STI-UNC 8-32	0.205	2.756	0.394	0.984	0.194	0.152	0.250	3	●●
TC117.STIUNC10-B0-	STI-UNC 10-24	0.244	3.150	0.394	1.181	0.255	0.191	0.313	3	●●
TC117.STIUNC1/4B0-	STI-UNC 1/4-20	0.315	3.543	0.472	1.378	0.318	0.238	0.380	3	●●

Order example for grade WY80FC: TC117.STIUNC2-B0-WY80FC

DIN/ANSI



Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	in	l _g in	N	WY80FC
TC117.STIUNC3/8K0-	STI-UNC 3/8-16	0.456	3.937	0.591	2.831	0.367	0.275	0.437	3	●●

Order example for grade WY80FC: TC117.STIUNC3/8K0-WY80FC

**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

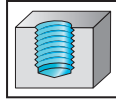
HSS-E machine taps

Paradur® X-pert N inch shank

– For long-chipping aluminum alloys (Si content < 7 %)

STI-UNC
NASM 33537

3B



$\leq 3 \times D_N$

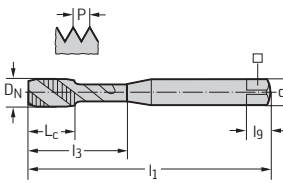
C=2-3

35°

200HB
60HB

	P	M	K	N	S	H	O
uncoated				●●	●		●

DIN/ANSI



Designation
uncoated

D_N -P

D_N
in

l_1
in

L_C
in

l_3
in

d_1
h9
in

l_g
in

l_g
in

N

Designation uncoated	D_N -P	D_N in	l_1 in	L_C in	l_3 in	d_1 h9 in	l_g in	l_g in	N
AN225069-STIUNC2	STI-UNC 2-56	0.109	2.205	0.236	0.709	0.141	0.110	0.190	2
AN225069-STIUNC4	STI-UNC 4-40	0.144	2.205	0.276	0.827	0.141	0.110	0.190	2
AN225069-STIUNC6	STI-UNC 6-32	0.179	2.756	0.315	0.984	0.194	0.152	0.250	2
AN225069-STIUNC8	STI-UNC 8-32	0.205	2.756	0.394	0.984	0.194	0.152	0.250	2
AN225069-STIUNC1/4	STI-UNC 1/4-20	0.315	3.543	0.472	1.378	0.318	0.238	0.380	2

**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

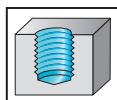
Paradur® Ti inch shank



- Recommended with oil
- For long-chipping materials

STI-UNC
NASM 33537

3B



$\leq 2 \times D_N$

C=2-3

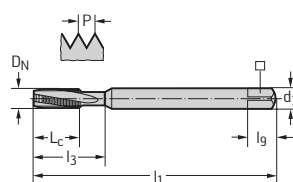
15°

410HB
200HB

	P	M	K	N	S	H	O
VAP	●●			●	●●		

ANSI B94.9

Cylindrical shank



Designation VAP	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	in	l _g in	N
A224060S-STIUNC2	EGUNC 2-56	0.109	1.878	0.394	0.394	0.141	0.110	0.190	2
A224060S-STIUNC4	EGUNC 4-40	0.144	2.000	0.512	1.220	0.141	0.110	0.190	3
A224060S-STIUNC6	EGUNC 6-32	0.179	2.378	0.709	0.709	0.194	0.152	0.250	3
A224060S-STIUNC8	EGUNC 8-32	0.205	2.378	0.787	1.504	0.220	0.165	0.281	3
A224060S-STIUNC10	EGUNC 10-24	0.244	2.500	0.630	1.102	0.255	0.191	0.313	3

**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® Ni

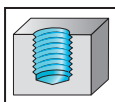
inch shank



– For long-chipping materials

STI-UNC
 NASM 33537

3B



$$\leq 1.5 \times D_N$$

$$C=2-3$$

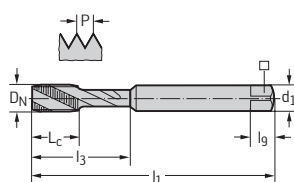
$$25^\circ$$

$$\begin{matrix} \blacksquare & 410\text{HB} \\ \square & 200\text{HB} \end{matrix}$$

	P	M	K	N	S	H	O
VAP	●●		●●	●	●		

ANSI B94.9

	Designation VAP	D_N -P	D_N in	l_1 in	L_c in	l_3 in	d_1 h9 in	$\square$ in	l_g in	N
Cylindrical shank	A224089S-STIUNC2	EGUNC 2-56	0.109	1.878	0.394	0.394	0.141	0.110	0.190	3
	A224089S-STIUNC4	EGUNC 4-40	0.144	2.000	0.512	1.220	0.141	0.110	0.190	3
	A224089S-STIUNC6	EGUNC 6-32	0.179	2.378	0.709	0.709	0.194	0.152	0.250	3
	A224089S-STIUNC8	EGUNC 8-32	0.205	2.378	0.787	0.787	0.220	0.165	0.281	3
	A224089S-STIUNC1/4	EGUNC 1/4-20	0.315	2.717	0.748	1.299	0.318	0.238	0.380	3



C4

**WALTER
SELECT**

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

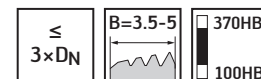
HSS-E machine taps

TC217 Advance

inch shank

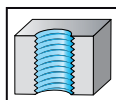


- Universal cut tap
- WY80FC: best chip control



STI-UNF
NASM 33537

3B



	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●			

DIN/ANSI

Designation	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N	WY80FC
TC217.STIUNF10-B0-	STI-UNC 10-24	0.244	3.150	0.591	1.181	0.255	0.191	0.313	3	☞
TC217.STIUNF1/4B0-	STI-UNC 1/4-20	0.315	3.543	0.709	1.378	0.318	0.238	0.380	3	☞

Order example for grade WY80FC: TC217.STIUNF10-B0-WY80FC

DIN/ANSI

Designation	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N	WY80FC
TC217.STIUNF3/8K0-	STI-UNC 3/8-16	0.456	3.937	0.787	2.862	0.323	0.242	0.406	3	☞

Order example for grade WY80FC: TC217.STIUNF3/8K0-WY80FC

C4

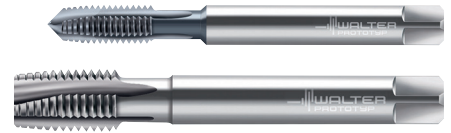
**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = ☞ machining conditions

HSS-E PM machine taps

Prototex® TiNi

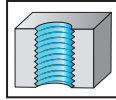
inch shank



- Recommended with oil
- For long-chipping materials

STI-UNF
NASM 33537

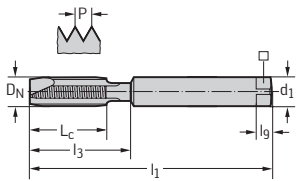
3B



	P	M	K	N	S	H	O
uncoated	●●	●●	●	●	●●	●	●

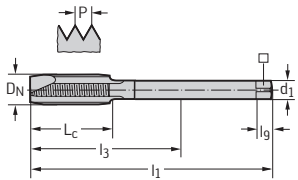
ANSI B94.9

	Designation uncoated	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N
Cylindrical shank	A232079-STIUNF10	EGUNF 10-32	0.231	2.500	0.630	1.181	0.255	0.191	0.313	3
	A232079-STIUNF1/4	EGUNF 1/4-28	0.296	2.717	0.748	1.299	0.318	0.238	0.380	3



ANSI B94.9

	Designation uncoated	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N
Cylindrical shank	A232579-STIUNF3/8	EGUNF 3/8-24	0.429	3.157	0.866	2.083	0.323	0.242	0.406	3



C4

**WALTER
SELECT**

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine taps

TC117 Advance

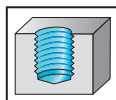
inch shank



- Universal cut tap
- WY80FC: best chip control

STI-UNF
NASM 33537

3B


 $\leq 2.5 \times D_N$

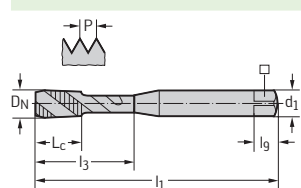
C=2-3

 $\angle 40^\circ$

370HB
150HB

	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●			

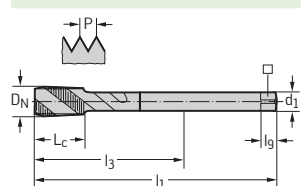
DIN/ANSI



Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l ₉ in	N	WY80FC
TC117.STIUNF10-B0-	STI-UNC 10-24	0.244	3.150	0.394	1.181	0.255	0.191	0.313	3	●●
TC117.STIUNF1/4B0-	STI-UNC 1/4-20	0.315	3.543	0.472	1.378	0.318	0.238	0.380	3	●●

Order example for grade WY80FC: TC117.STIUNF10-B0-WY80FC

DIN/ANSI



Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l ₉ in	N	WY80FC
TC117.STIUNF3/8K0-	STI-UNC 3/8-16	0.456	3.937	0.591	2.862	0.323	0.242	0.406	3	●●

Order example for grade WY80FC: TC117.STIUNF3/8K0-WY80FC

C4

WALTER
SELECT

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

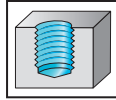
HSS-E machine taps

Paradur® X-pert N inch shank

– For long-chipping aluminum alloys (Si content < 7 %>

STI-UNF
NASM 33537

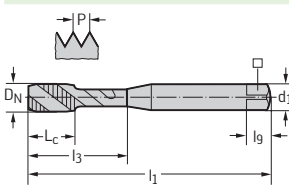
3B


 $\leq 3 \times D_N$
 $C=2-3$
 35°

200HB
60HB

	P	M	K	N	S	H	O
uncoated				●●	●		●

DIN/ANSI

Designation
uncoated D_N-P D_N
in l_1
in l_c
in l_3
in d_1
h9
in□
in l_g
in

N

AN235069-STIUNF10

STI-UNC 10-24

0.244

3.150

0.394

1.181

0.255

0.191

0.313

2

AN235069-STIUNF1/4

STI-UNC 1/4-20

0.315

3.543

0.472

1.378

0.318

0.238

0.380

3

**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

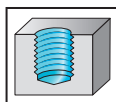
Paradur® Ti inch shank



- Recommended with oil
- For long-chipping materials

STI-UNF
NASM 33537

3B



$\leq 2 \times D_N$

C=2-3

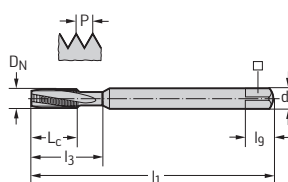
15°

410HB
200HB

	P	M	K	N	S	H	O
VAP	●●			●	●●		

ANSI B94.9

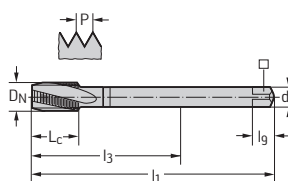
Cylindrical shank



Designation VAP	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	in	l _g in	N
A234060S-STIUNF8	EGUNF 8-36	0.200	2.378	0.787	0.787	0.220	0.165	0.281	3
A234060S-STIUNF10	EGUNF 10-32	0.231	2.500	0.630	1.102	0.255	0.191	0.313	3
A234060S-STIUNF1/4	EGUNF 1/4-28	0.296	2.717	0.748	1.299	0.318	0.238	0.380	3
A234060S-STIUNF5/16	EGUNF 5/16-24	0.367	2.937	0.748	1.398	0.381	0.286	0.437	3

ANSI B94.9

Cylindrical shank



Designation VAP	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	in	l _g in	N
A234560S-STIUNF3/8	EGUNF 3/8-24	0.429	3.157	0.866	2.083	0.323	0.242	0.406	4

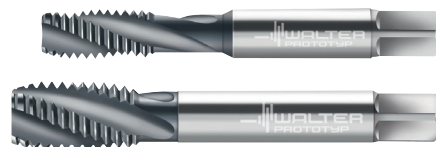
**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® Ni

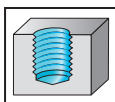
inch shank



– For long-chipping materials

STI-UNF
NASM 33537

3B

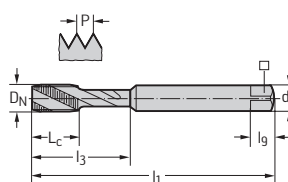

 $\leq 1.5 \times D_N$
 $C=2-3$
 25°

410HB
200HB

	P	M	K	N	S	H	O
VAP	●●		●●	●	●		

ANSI B94.9

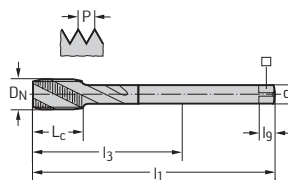
Cylindrical shank



Designation VAP	D_N -P	D_N in	l_1 in	L_c in	l_3 in	d_1 h9 in	$\square$ in	l_g in	N
A234000S-STIUNF10	EGUNF 10-32	0.231	2.500	0.630	1.102	0.255	0.191	0.313	3
A234000S-STIUNF1/4	EGUNF 1/4-28	0.296	2.717	0.748	1.299	0.318	0.238	0.380	3
A234000S-STIUNF5/16	EGUNF 5/16-24	0.367	2.937	0.748	1.398	0.381	0.286	0.437	3

ANSI B94.9

Cylindrical shank



Designation VAP	D_N -P	D_N in	l_1 in	L_c in	l_3 in	d_1 h9 in	$\square$ in	l_g in	N
A234589S-STIUNF3/8	EGUNF 3/8-24	0.429	3.157	0.866	2.083	0.323	0.242	0.406	4

C4

**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

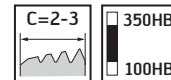
HSS-E machine taps

Paradur Inox®

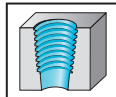
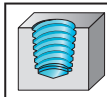
inch shank



– For long-chipping materials



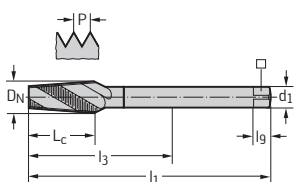
NPT
ASME B1.20.1



	P	M	K	N	S	H	O
VAP	●●	●●	●				

DIN/ANSI

Cylindrical shank



Designation VAP	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
A25563-NPT1/16	NPT 1/16-27	0.304	3.150	0.551	2.184	0.313	0.234	0.234	3
A25563-NPT1/8	NPT 1/8-27	0.396	3.543	0.551	2.499	0.437	0.328	0.328	4
A25563-NPT1/4	NPT 1/4-18	0.526	3.937	0.787	2.319	0.562	0.421	0.421	4
A25563-NPT3/8	NPT 3/8-18	0.662	4.331	0.787	2.650	0.700	0.531	0.531	5
A25563-NPT1/2	NPT 1/2-14	0.825	4.921	1.024	3.115	0.687	0.515	0.515	5
A25563-NPT3/4	NPT 3/4-14	1.035	5.512	1.024	3.092	0.906	0.679	0.679	5

C4

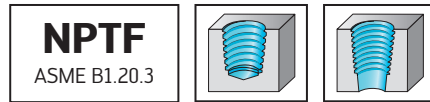
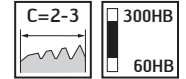
**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® H inch shank

– For long- and short-chipping materials



	P	M	K	N	S	H	O
uncoated			●	●●			●

DIN/ANSI	Designation uncoated	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h ₉ in	□ in	l ₉ in	N
	AC26361-NPTF1/8	NPTF 1/8-27	0.393	3.543	0.551	2.499	0.437	0.328	0.328	4
	AC26361-NPTF1/4	NPTF 1/4-18	0.524	3.937	0.787	2.319	0.562	0.421	0.421	4
	AC26361-NPTF3/8	NPTF 3/8-18	0.660	4.331	0.787	2.650	0.700	0.531	0.531	5
	AC26361-NPTF1/2	NPTF 1/2-14	0.824	4.921	1.024	3.115	0.687	0.515	0.515	5

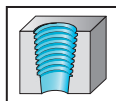
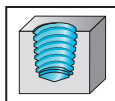
HSS-E machine taps

Paradur® Ni

inch shank



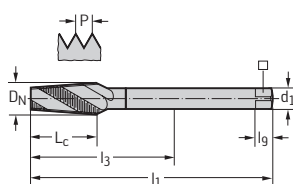
– For long-chipping materials



	P	M	K	N	S	H	O
VAP	●●		●●	●●			

DIN/ANSI

Cylindrical shank



Designation
VAP

DN-P

DN
in

l₁
in

L_c
in

l₃
in

d₁
h9
in

□
in

l_g
in

N

Designation VAP	DN-P	DN in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
A264602-NPTF1/16	NPTF 1/16-27	0.301	3.150	0.551	2.184	0.313	0.234	0.234	3
A264602-NPTF1/8	NPTF 1/8-27	0.393	3.543	0.551	2.499	0.437	0.328	0.328	4
A264602-NPTF1/4	NPTF 1/4-18	0.524	3.937	0.787	2.319	0.562	0.421	0.421	4
A264602-NPTF3/8	NPTF 3/8-18	0.660	4.331	0.787	2.650	0.700	0.531	0.531	5
A264602-NPTF1/2	NPTF 1/2-14	0.824	4.921	1.024	3.115	0.687	0.515	0.515	5

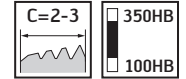
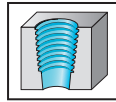
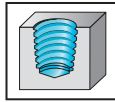
HSS-E machine taps

Paradur Inox®

inch shank



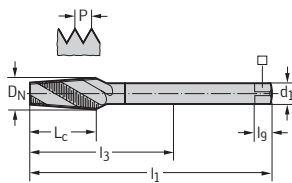
– For long-chipping materials



	P	M	K	N	S	H	O
VAP	●●	●●	●				

DIN/ANSI

Cylindrical shank

Designation
VAPD_N-PD_N
inl₁
inL_c
inl₃
ind₁
h9
in□
inl_g
in

N

A26563-NPTF1/16	NPTF 1/16-27	0.301	3.150	0.551	2.184	0.313	0.234	0.234	3
A26563-NPTF1/8	NPTF 1/8-27	0.393	3.543	0.551	2.499	0.437	0.328	0.328	4
A26563-NPTF1/4	NPTF 1/4-18	0.524	3.937	0.787	2.319	0.562	0.421	0.421	4
A26563-NPTF3/8	NPTF 3/8-18	0.660	4.331	0.787	2.650	0.700	0.531	0.531	5
A26563-NPTF1/2	NPTF 1/2-14	0.824	4.921	1.024	3.115	0.687	0.515	0.515	5
A26563-NPTF3/4	NPTF 3/4-14	1.034	5.512	1.024	3.092	0.906	0.679	0.679	5

C4

WALTER
SELECT

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

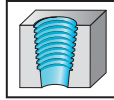
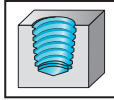
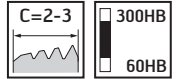
HSS-E machine taps

Paradur® H

inch shank

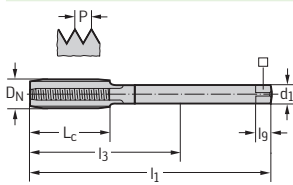


– For long- and short-chipping materials



	P	M	K	N	S	H	O
uncoated			●	●●			●

DIN/ANSI



Designation
uncoated

D_N-P

D_N
in

l₁
in

L_c
in

l₃
in

d₁
h9
in

□
in

l_g
in

N

AC26361-NPTF1/8

NPTF 1/8-27

0.393

3.543

0.551

2.499

0.437

0.328

0.328

4

AC26361-NPTF1/4

NPTF 1/4-18

0.524

3.937

0.787

2.319

0.562

0.421

0.421

4

AC26361-NPTF1/2

NPTF 1/2-14

0.824

4.921

1.024

3.115

0.687

0.515

0.515

5

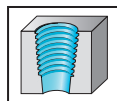
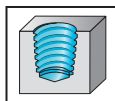
HSS-E machine taps

Paradur® Ni

inch shank



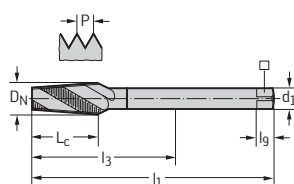
– For long-chipping materials



	P	M	K	N	S	H	O
VAP	●●		●●	●●			

DIN/ANSI

Cylindrical shank

Designation
VAPD_N-PD_N
inl₁
inL_c
inl₃
ind₁
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N

A264602-NPTF1/8	NPTF 1/8-27	0.393	3.543	0.551	2.499	0.437	0.328	0.328	4
A264602-NPTF1/4	NPTF 1/4-18	0.524	3.937	0.787	2.319	0.562	0.421	0.421	4
A264602-NPTF3/8	NPTF 3/8-18	0.660	4.331	0.787	2.650	0.700	0.531	0.531	5
A264602-NPTF1/2	NPTF 1/2-14	0.824	4.921	1.024	3.115	0.687	0.515	0.515	5

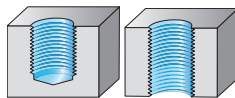
C4

WALTER
SELECT

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E thread formers

Machining



Thread depth

 $3.5 \times D_N$
 $3.5 \times D_N$


Designation

TC410 Advance

TC420 Supreme

Thread type

M

✓

MF

UNC / UNF / UN-8

✓

✓

G / Rc / Rp

MJ / UNJC / UNJF

NPT / NPTF

Pg / BSW / Tr

STI-UNC / STI-UNF

Tolerance

2BX / 6HX

2BX

Coolant supply

External

radial

Chamfer form

C

C

Coating / grade

WY80AD

WW60AD

Cutting tool material

HSS-E

HSS-E-PM

P Steel

●●

●●

M Stainless steel

●●

●

K Cast iron

●

●

N NF metals

●●

●●

S Materials with difficult cutting properties

●

●

H Hard materials

O Other

Page in catalog

C 579

C 581

QR code



www.walter-tools.com/woc/

TC410

TC420

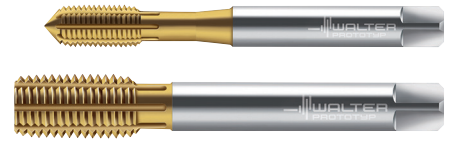
WALTER
SELECT

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

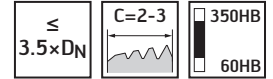
HSS-E machine thread formers

TC410 Advance

inch shank

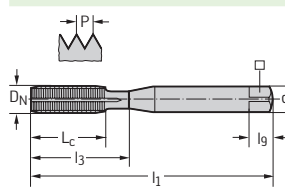


- Universal form tap
- With lubrication grooves



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●●	●	●●	●		

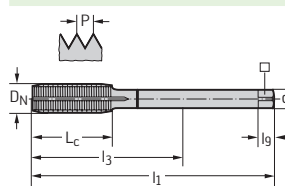
DIN/ANSI



Designation	DN	P mm	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80AD
TC410.M3-C6-	M 3	0.5	2.205	0.354	0.709	0.118	0.110	0.190	4	☼
TC410.M4-C6-	M 4	0.7	2.480	0.472	0.827	0.157	0.131	0.250	5	☼
TC410.M5-C6-	M 5	0.8	2.756	0.512	0.984	0.197	0.152	0.250	5	☼
TC410.M6-C6-	M 6	1.0	3.150	0.591	1.181	0.236	0.191	0.313	5	☼
TC410.M8-C6-	M 8	1.25	3.543	0.709	1.378	0.315	0.238	0.380	5	☼
TC410.M10-C6-	M 10	1.5	3.937	0.787	1.535	0.394	0.286	0.437	6	☼

Order example for grade WY80AD: TC410.M3-C6-WY80AD

DIN/ANSI



Designation	DN	P mm	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80AD
TC410.M12-L6-	M 12	1.75	4.331	0.906	3.224	0.472	0.275	0.437	6	☼
TC410.M16-L6-	M 16	2.0	4.331	0.984	2.587	0.630	0.360	0.563	6	☼
TC410.M20-L6-	M 20	2.5	5.512	1.181	3.642	0.787	0.489	0.689	7	☼

Order example for grade WY80AD: TC410.M12-L6-WY80AD

WALTER
SELECT

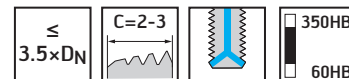
●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☼ machining conditions

HSS-E-PM machine thread formers

TC420 Supreme inch shank



- Universal high-performance form tap
- With lubrication grooves



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●	●	●●	●		

DIN/ANSI

Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	in	l _g in	N	WW60AD
TC420.UNC1/4-C2-	UNC 1/4-20	0.250	3.150	0.394	1.181	0.250	0.191	0.313	5	
TC420.UNC5/16-C2-	UNC 5/16-18	0.313	3.543	0.472	1.378	0.313	0.238	0.380	5	
TC420.UNC3/8-C2-	UNC 3/8-16	0.375	3.937	0.591	1.535	0.375	0.286	0.437	5	
TC420.UNC10-C2-										

Order example for grade WW60AD: TC420.UNC1/4-C2-WW60AD

DIN/ANSI

Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WW60AD
TC420.UNC1/2-L2-	UNC 1/2-13	0.500	4.331	0.709	3.224	0.500	0.275	0.437	6	
TC420.UNC5/8-L2-	UNC 5/8-11	0.625	4.331	0.787	2.587	0.625	0.360	0.563	6	
TC420.UNC3/4-L2-										

Order example for grade WW60AD: TC420.UNC1/2-L2-WW60AD

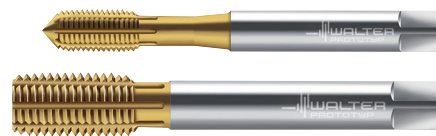
WALTER
SELECT

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

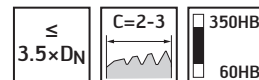
HSS-E machine thread formers

TC410 Advance

inch shank

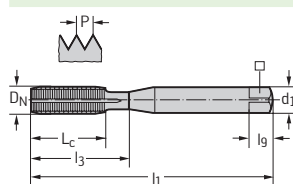


- Universal form tap
- With lubrication grooves



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●●	●	●●	●		

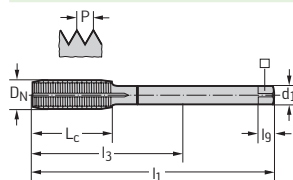
DIN/ANSI



Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l ₉ in	N	WY80AD
TC410.UNC2-C6-	UNC 2-56	0.086	1.772	0.276	0.472	0.086	0.110	0.190	3	●●
TC410.UNC4-C6-	UNC 4-40	0.112	2.205	0.354	0.709	0.112	0.110	0.190	3	●●
TC410.UNC5-C6-	UNC 5-40	0.125	2.205	0.394	0.709	0.125	0.110	0.190	4	●●
TC410.UNC6-C6-	UNC 6-32	0.138	2.205	0.512	0.787	0.138	0.110	0.190	4	●●
TC410.UNC8-C6-	UNC 8-32	0.164	2.480	0.591	0.984	0.164	0.131	0.250	5	●●
TC410.UNC10-C6-	UNC 10-24	0.190	2.756	0.709	0.984	0.190	0.152	0.250	5	●●
TC410.UNC1/4-C6-	UNC 1/4-20	0.250	3.150	0.630	1.181	0.250	0.191	0.313	5	●●
TC410.UNC5/16-C6-	UNC 5/16-18	0.313	3.543	0.748	1.378	0.313	0.238	0.380	5	●●
TC410.UNC3/8-C6-	UNC 3/8-16	0.375	3.937	0.748	1.535	0.375	0.286	0.437	5	●●

Order example for grade WY80AD: TC410.UNC2-C6-WY80AD

DIN/ANSI



Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l ₉ in	N	WY80AD
TC410.UNC7/16-L6-	UNC 7/16-14	0.438	3.937	0.866	2.862	0.438	0.242	0.406	6	●●
TC410.UNC1/2-L6-	UNC 1/2-13	0.500	4.331	0.945	3.224	0.500	0.275	0.437	6	●●
TC410.UNC9/16-L6-	UNC 9/16-12	0.563	4.331	1.024	3.161	0.563	0.322	0.500	6	●●
TC410.UNC5/8-L6-	UNC 5/8-11	0.625	4.331	1.102	2.587	0.625	0.360	0.563	6	●●
TC410.UNC3/4-L6-	UNC 3/4-10	0.750	4.921	1.181	3.051	0.750	0.442	0.689	7	●●
TC410.UNC7/8-L6-	UNC 7/8-9	0.875	5.512	1.181	3.583	0.875	0.523	0.750	7	●●

Order example for grade WY80AD: TC410.UNC7/16-L6-WY80AD

WALTER
SELECT

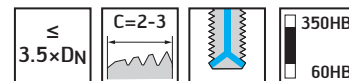
●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E-PM machine thread formers

TC420 Supreme inch shank



- Universal high-performance form tap
- With lubrication grooves



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●	●	●●	●		

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WW60AD
	TC420.UNF1/4-C2-	UNF 1/4-28	0.250	3.150	0.394	1.181	0.250	0.191	0.313	5	●●
	TC420.UNF5/16-C2-	UNF 5/16-24	0.313	3.543	0.472	1.378	0.313	0.238	0.380	5	●●
	TC420.UNF3/8-C2-	UNF 3/8-24	0.375	3.937	0.472	1.535	0.375	0.286	0.437	5	●●
	TC420.UNF10-C2-										●●

Order example for grade WW60AD: TC420.UNF1/4-C2-WW60AD

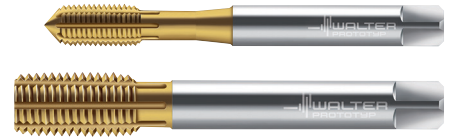
	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N	WW60AD
	TC420.UNF7/16-L2-										●●
	TC420.UNF1/2-L2-										●●
	TC420.UNF9/16-L2-										●●
	TC420.UNF5/8-L2-										●●
	TC420.UNF3/4-L2-										●●

Order example for grade WW60AD: TC420.UNF7/16-L2-WW60AD

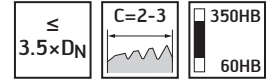
**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine thread formers

TC410 Advance inch shank

- Universal form tap
- With lubrication grooves



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●●	●	●●	●		

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h ₉ in	□ in	l _g in	N	WY80AD
	TC410.UNF0-C6-	UNF 0-80	0.060	1.575	0.217	0.256	0.060	0.110	0.190	3	✖
	TC410.UNF1-C6-	UNF 1-72	0.073	1.772	0.276	0.354	0.073	0.110	0.190	3	✖
	TC410.UNF6-C6-	UNF 6-40	0.138	2.205	0.512	0.787	0.138	0.110	0.190	4	✖
	TC410.UNF8-C6-	UNF 8-36	0.164	2.480	0.591	0.984	0.164	0.131	0.250	5	✖
	TC410.UNF10-C6-	UNF 10-32	0.190	2.756	0.709	0.984	0.190	0.152	0.250	5	✖
	TC410.UNF1/4-C6-	UNF 1/4-28	0.250	3.150	0.630	1.181	0.250	0.191	0.313	5	✖
	TC410.UNF5/16-C6-	UNF 5/16-24	0.313	3.543	0.748	1.378	0.313	0.238	0.380	5	✖
	TC410.UNF3/8-C6-	UNF 3/8-24	0.375	3.937	0.748	1.535	0.375	0.286	0.437	5	✖

Order example for grade WY80AD: TC410.UNF0-C6-WY80AD

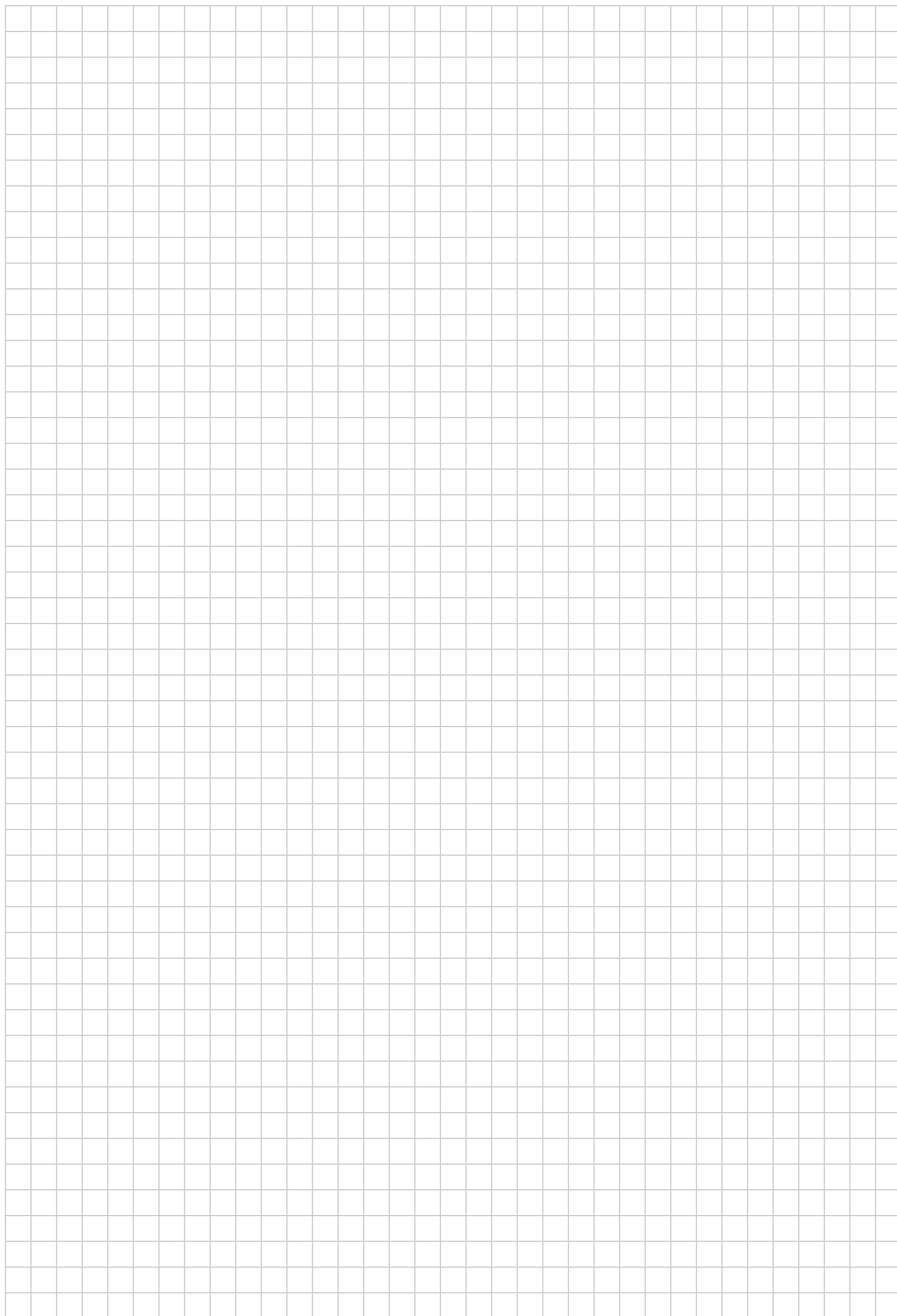
DIN/ANSI	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h ₉ in	□ in	l _g in	N	WY80AD
	TC410.UNF7/16-L6-	UNF 7/16-20	0.438	3.937	0.866	2.862	0.438	0.242	0.406	6	✖
	TC410.UNF1/2-L6-	UNF 1/2-20	0.500	3.937	0.945	2.831	0.500	0.275	0.437	6	✖
	TC410.UNF9/16-L6-	UNF 9/16-18	0.563	3.937	1.024	2.768	0.563	0.322	0.500	6	✖
	TC410.UNF5/8-L6-	UNF 5/8-18	0.625	3.937	1.102	2.193	0.625	0.360	0.563	6	✖
	TC410.UNF3/4-L6-	UNF 3/4-16	0.750	4.331	1.181	2.461	0.750	0.442	0.689	7	✖
	TC410.UNF7/8-L6-	UNF 7/8-14	0.875	4.921	1.260	2.992	0.875	0.523	0.750	7	✖

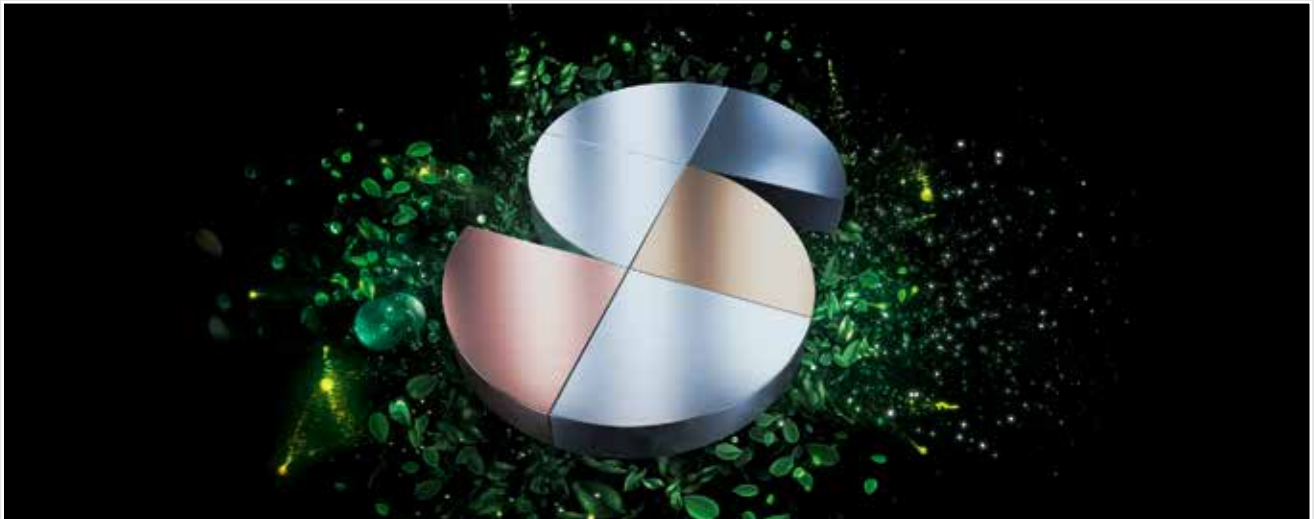
Order example for grade WY80AD: TC410.UNF7/16-L6-WY80AD

WALTER
SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions





Sustainable products and services – certified and transparent

Walter is a company that takes responsibility for people and the environment. Sustainability is a central component of our corporate strategy. It pervades our products and business divisions and is reviewed and certified by independent third parties on a regular basis.

Proven to be produced to high standards

All processes, procedures, methods and instruments that we use are checked and certified by an independent body according to strict criteria. Occupational health and safety, quality assurance and environmentally friendly actions (for example through resource-saving, energy-efficient and CO₂-offset production) are examples of this. Our social commitment shows that Walter has a broader definition of responsibility.

Transparency throughout the entire process chain – for your peace of mind

The integrated management system at Walter includes the sustainable use of resources and production equipment as well as of people – our customers, partners and employees. So that you can count on all of our products meeting these requirements throughout the entire process chain, we apply our own benchmarks to our suppliers too.

Certification

The integrated management system at Walter includes certification in accordance with:

- ISO 9001 (Quality management)
- VDA 6.4 (Production equipment for the automotive industry)
- ISO 14001 (Environmental management)
- ISO 45001 (Occupational health and safety management)
- ISO 50001 (Energy management)



You can find more information
on Walter certification here:



Occupational health and safety

Walter protects its employees against health hazards. To prevent accidents, we continuously review our processes and take proactive measures as a precaution.



Environmental and energy management

Environmental protection is an important company objective for Walter. We use energy efficiently and deploy practical methods to sustainably reduce the consumption of energy, water and resources.



Quality management

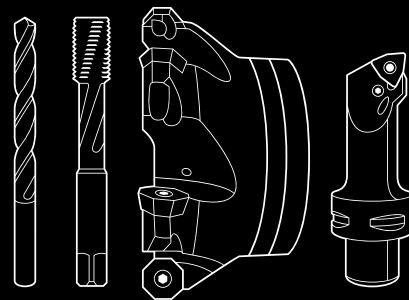
Walter is continuously improving its products and processes. We ensure our product quality using effective measures and procedures – and check it on a regular basis with our comprehensive quality management system.

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