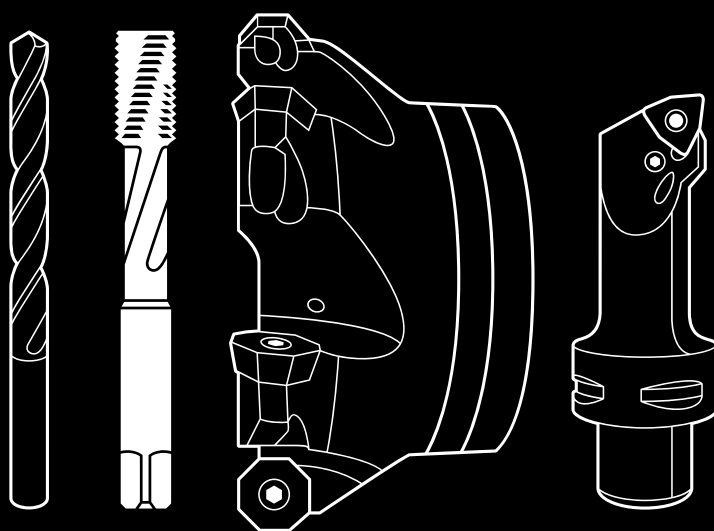


_ METAL IS OUR WORLD

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 catalogues 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 optimised form, at any time.

Walter online catalogue



Tool-specific search

You can find products in the Walter online catalogue using the familiar structure of our product catalogue 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.

C – Threading

C1: Tapping		Page
HSS-E (-PM) taps	Product range overview	
	HSS-E (-PM) taps	C 10
	Order pages	
	HSS-E (-PM) taps	C 23
	M – Metric thread	C 53
	MF – Metric fine-pitch thread	C 127
	UNC / UNF / UNEF / UN-8 / UNS	C 171
	MJ/UNJC/UNJF	C 218
	G/Rc/Rp	C 224
	NPT/NPTF	C 242
	Pg/BSW/Tr	C 250
	Thread insert	C 255
Solid carbide taps	Product range overview	
	Solid carbide taps	C 278
	Order pages	
	M – Metric thread	C 280
	MF – Metric fine-pitch thread	C 290
	UNC, UNF	C 295
	G	C 297
C2: Thread forming		Page
HSS-E (-PM) and solid carbide thread formers	Product range overview	
	HSS-E (-PM) and solid carbide thread formers	C 298
	Order pages	
	M – Metric thread	C 302
	MF – Metric fine-pitch thread	C 342
	UNC, UNF	C 356
	G	C 358
C3: Thread milling		Page
Thread milling	Product range overview	
	Drill/thread mills	C 361
	Order pages	
	Drill/thread mills	C 362
Thread milling cutters with countersink	Product range overview	
	Thread milling cutters with countersink	C 371
	Order pages	
	Thread milling cutters with countersink	C 372
Thread milling cutters without countersink	Product range overview	
	Thread milling cutters without countersink	C 376
	Order pages	
	Thread milling cutters without countersink	C 378
Orbital thread milling cutters	Product range overview	
	Solid carbide orbital thread milling cutters	C 416
	Order pages	
	Solid carbide orbital thread milling cutters	C 417
Thread milling cutters with indexable inserts	Product range overview	
	Thread milling cutters with indexable inserts	C 435
	Order pages	
	Thread milling cutters with indexable inserts	C 436
	Order pages	
	Thread milling cutters with indexable inserts	C 454

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.

Drion-tec™

Drion-tec™ is the name for Walter's drilling and reaming tool solutions with a replaceable cutting edge – both with indexable inserts and exchangeable inserts. Drion-tec™ drills are set apart by their cost-efficiency, high precision and versatility. Thanks to a wide product range, they are suitable for specialised mass production as well as for specific applications and mixed-mode manufacturing.

Krato-tec™

Krato-tec™ is a unique Walter coating technology for solid carbide tools. The core of this consists of an extraordinarily fracture-resistant AlTiN multi-layer coating with a textured top layer. The special layer architecture is highly wear- and adhesion-resistant, even at high cutting speeds, and ensures the tools have universal application.

Tiger-tec®Gold

Tiger-tec® Gold, the new Walter generation platform for unique indexable insert coatings, enables maximum tool life and process reliability. The new grades are based on PVD, CVD or ULP technology, depending on the application. Unique coating properties, protected by multiple patents, guarantee the best protection against tool life-limiting types of wear and ensure outstanding performance.

Tiger-tec®Silver

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

Thrill-tec™

Thrill-tec™ circular drill/thread mills combine three functions in one tool and operation: Chamfering, drilling core holes and producing threads. The tools boast a special combination of substrate, coating and geometry, resulting in long tool life. Bringing together multiple machining steps makes incredibly short machining times possible and reduces the number of tools used and machine slots required.

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 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 enquiries are calculated and provided within 24 hours.

Walter Precision XT

Precision boring tools are always used to finish an existing bore or to improve the precision of existing bores, for instance by correcting their position, narrowing the hole tolerance, or enhancing the surface quality. Precision boring is typically performed using a depth of cut < 0.5 mm (0.02 inches).

Walter Boring XT

Tools for rough boring are used to expand existing bores. Material removal is a key element of this process. The bore to be enlarged is machined in advance or created using casting or forging processes. The rough boring tools themselves can also be used for radial offsetting and multi-edge boring.

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 $70 \times D_c$ 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

For Walter, the X-treme Evo DC260 & DC160 Advance solid carbide drills as well as the X-treme Evo Plus DC180 Supreme and X-treme Evo 3 DC183 Supreme are the embodiment of the “next generation of drilling”, offering versatility for a wide range of materials and machine concepts – with outstanding tool life, productivity and process reliability.

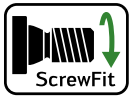
Technologies at Walter (continued)



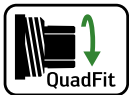
Walter Capto™ is a modular tool adaptor system. It is suitable for all turning, milling, drilling and threading processes. Its ISO-standardised polygon taper absorbs torsional moments and bending moments extremely well and ensures optimal repeat accuracy.



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-centre, 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.



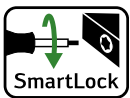
The precision-ground QuadFit interface with taper and support face characterises the precision of the vibration-damped boring bars for turning and thread turning with Walter Accure-tec® technology. The exchangeable head system, which can be rotated by 180°, makes it possible to rapidly replace tools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



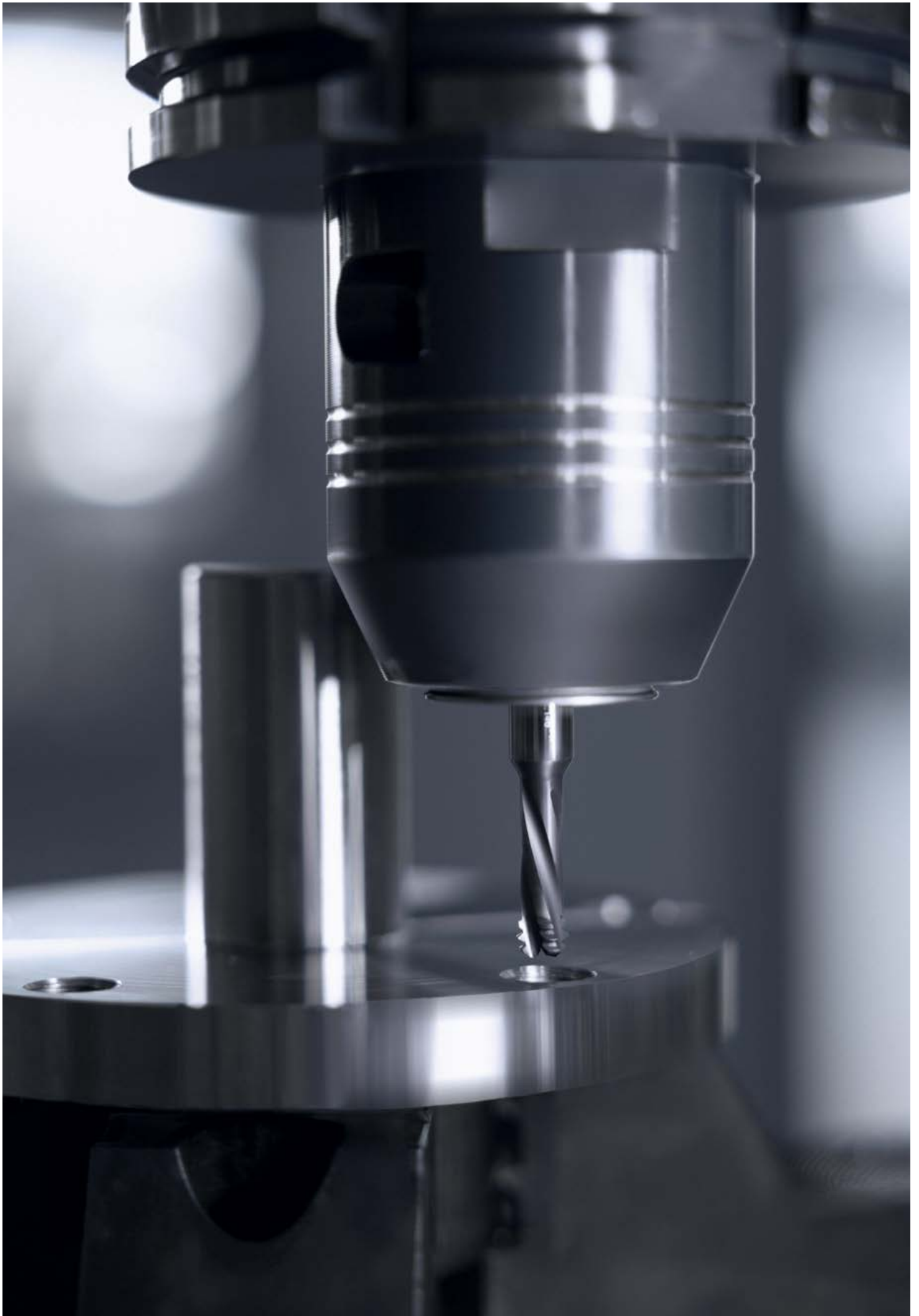
In turning and grooving operations, the Walter precision cooling system provides cooling at the centre of the chip formation. Its dual coolant jets are directed precisely onto the flank and rake faces. In drilling operations, the coolant jets exit close to the cutting edge. This system provides significantly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



"Flash" refers to specialised 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 centre of the tool, which helps to stabilise 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 index 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.




The structure of the new Walter General Catalogue


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


Tapping


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	TCZ16 Perform	Paradur® H
Thread type					
M	✓	✓	✓	✓	✓
MF	✓		✓	✓	✓
UNC / UNF / UN-8	✓		✓	✓	
G / Rc / Rp	✓				✓
MJ / UNJC / UNJF			✓		
NPT / NPTF					
Pg / BSW / Tr	✓				
Thread insert					
Tolerance	2B / 3B / 4H / 6G / 6H / 6HMOD / 7G / MEDIUM / NORMAL	6H	2B / 6G / 6H / NORMAL	2B / 6H	6H / NORMAL
Coolant supply	External	External	External / radial	External	External
Chamfer form	B	B	B	B	C
Coating / grade	TICN / TIN		TiN / TiN	WY80AA / WY80FC	TiN
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 catalogue	16	17	18	19	
QR code					
www.walter-tools.com/woc/	prototex-xpert-p	prototex-xpert-p-az	prototex-eco-plus	TCZ16	paradur-h


WALTER SELECT ●● Primary application ● Other application

8 HSS-E (-PM) taps

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.

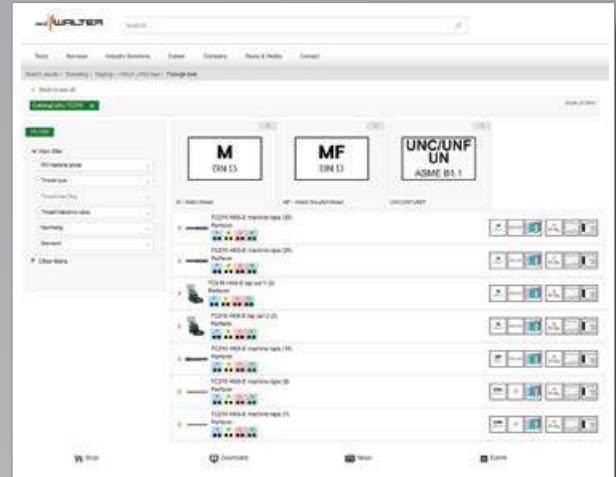
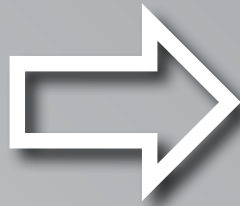
 Indexable inserts and tools with these red icons are new to the range and are labelled in this way on the ordering page.

Scan the QR code

to go directly to the sub-page for the corresponding product in the Walter online catalogue. 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.



TC216



Direct link

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

www.walter-tools.com/woc/TC216.

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.

HSS-E machine taps
TC216

UNC 2R
S 3xD₂
ISO-MC
1000
Aluminum

For long-chipping materials

WY80A-TN

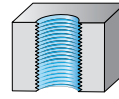
Key (explanation of symbols)

Column selection

DIN 371	Designation	D ₂ F	D ₂	l ₁	l ₂	l ₃
		mm	mm	mm	mm	mm
Perform - c3, 6x0 - UNC 2R - DIN 371 - Suitable for through hole (S)	Material	3.505 - 6.525	66 - 100	11 - 20	20 - 38	
	TC216/UNC2-C0-WY80AA Availability	UNC #5-32	3.505	66	11	20
	TC216/UNC2-C0-WY80AA Availability	UNC #6-32	4.150	63	12	21
	TC216/UNC10-C0-WY80AA Availability	UNC #10-24	4.820	70	13	25
	TC216/UNC16-C0-WY80AA Availability	UNC 1/4-20	6.35	80	15	30
	TC216/UNC18-C0-WY80AA Availability	UNC 5/16-18	7.938	90	18	35
	TC216/UNC36-C0-WY80AA Availability	UNC 3/8-16	9.525	100	20	38

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 Inox

MMB

Protostep Inox

Prototex® OS

Thread type

M



MF

UNC / UNF / UN-8

G / Rc / Rp

MJ / UNJC / UNJF

NPT / NPTF

Pg / BSW / Tr

Indexable inserts basic shape

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 catalogue

C 60

C 61

C 59

C 62

C 31

QR code



www.walter-tools.com/woc/

amb

amb-inox

mmb

protostep-inox

prototex-os

HSS-E (-PM) taps

Machining					

Thread depth	2 x D _N	2 x D _N	2 x D _N	3 x D _N	3 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			✓	✓	
Indexable inserts basic shape	✓				

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 catalogue	C 47	C 49	C 253	C 58	C 32
-------------------	------	------	-------	------	------

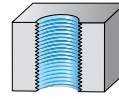
QR code					
---------	--	--	--	--	--

www.walter-tools.com/woc/	prototex-tini	prototex-tini-plus	tmb	kmb-h	paradur-n
---------------------------	---------------	--------------------	-----	-------	-----------

C1

HSS-E (-PM) taps

Machining



Thread depth

3 x D_N

3 x D_N

3 x D_N

3 x D_N

3 x 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					
Indexable inserts basic shape				✓	
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 catalogue	C 51	C 50	C 30	C 44	C 46
QR code					
www.walter-tools.com/woc/	prototex-megasprint	prototex-sprint	prototex-synchrospeed	prototex-xpert-m	prototex-xpert-n

HSS-E (-PM) taps

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

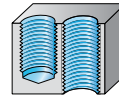


Designation	Prototex® X-pert P	Prototex® X-pert P AZ	Prototex® Eco Plus	TC216 Perform	Paradur® H
Thread type					
M	✓	✓	✓	✓	✓
MF	✓		✓	✓	✓
UNC / UNF / UN-8	✓		✓	✓	
G / Rc / Rp	✓		✓		✓
MJ / UNJC / UNJF					
NPT / NPTF					
Pg / BSW / Tr	✓				
Indexable inserts basic shape	✓				
Tolerance	2B / 3B / 4H / 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 catalogue	C 33	C 40	C 23	C 27	C 76
QR code					
www.walter-tools.com/woc/	prototex-xpert-p	prototex-xpert-p-az	prototex-eco-plus	TC216	paradur-h

C1

HSS-E (-PM) taps

Machining



Thread depth

 1,5 x D_N

 2 x D_N

 2 x D_N

 2 x D_N

 2 x D_N


Designation	Paradur® H AZ	HGB	HGB Inox	HGB Ti	Paradur® AP
Thread type					
M	✓	✓	✓	✓	✓
MF					
UNC / UNF / UN-8					
G / Rc / Rp					
MJ / UNJC / UNJF					
NPT / NPTF					
Pg / BSW / Tr					
Indexable inserts basic shape					
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	NiTi
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	●				
Page in catalogue	C 78	C 53	C 54	C 55	C 118
QR code					
www.walter-tools.com/woc/	paradur-h-az	hgb	hgb-inox	hgb-ti	paradur-ap

WALTER SELECT

●● Primary application ● Other application

HSS-E (-PM) taps

Machining					
	2 x D _N	3 x D _N	3 x D _N	3 x D _N	

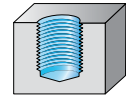
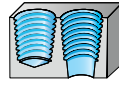


Designation	Paradur® FT	KMB Ms	Paradur® Eco CI	Paradur® X-pert K	Paradur Inox®
Thread type					
M	✓	✓	✓	✓	
MF			✓		
UNC / UNF / UN-8			✓		
G / Rc / Rp		✓	✓		
MJ / UNJC / UNJF					
NPT / NPTF					✓
Pg / BSW / Tr					
Indexable inserts basic shape					
Tolerance	6H	6H / NORMAL	2B / 6HX / NORMAL	6HX	NORMAL
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 catalogue	C 124	C 57	C 107	C 113	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					
Indexable inserts basic shape					
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 catalogue	C 245	C 240	C 243	C 246	C 75
QR code					
www.walter-tools.com/woc/	paradur-inox-40	paradur-h	paradur-n	paradur-ni	paradur-inox-25

HSS-E (-PM) taps

Machining					
	1,5 x D _N	1,5 x D _N	1,5 x D _N	1,5 x D _N	1,5 x D _N

Thread depth	1,5 x D _N	1,5 x D _N	1,5 x D _N	1,5 x D _N	1,5 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					
Indexable inserts basic shape			✓		

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 catalogue	C 150	C 81	C 119	C 121	C 89
-------------------	-------	------	-------	-------	------

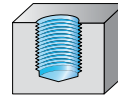
QR code					
---------	--	--	--	--	--

www.walter-tools.com/woc/	paradur-hn	paradur-n	paradur-ni	paradur-ni-10	TC122
---------------------------	------------	-----------	------------	---------------	-------

C1

HSS-E (-PM) taps

Machining



Thread depth	2 x D _N	2 x D _N	2,5 x D _N	2,5 x D _N	2,5 x 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					
Indexable inserts basic shape	✓				
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 catalogue	C 122	C 123	C 84	C 101	C 74
QR code					
www.walter-tools.com/woc/	paradur-ti	paradur-ti-plus	paradur-h-24	paradur-ste	paradur-synchrospeed

HSS-E (-PM) taps

Machining					
	2,5 x D _N	2,5 x D _N	2,5 x D _N	3 x D _N	3 x D _N

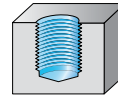


Designation	Paradur® X-pert M	TC121 Supreme	TC122 Supreme	KMB WST	Paradur® Eco CI
Thread type					
M	✓	✓	✓	✓	✓
MF	✓				✓
UNC / UNF / UN-8	✓				
G / Rc / Rp	✓				
MJ / UNJC / UNJF					
NPT / NPTF					
Pg / BSW / Tr					
Indexable inserts basic shape	✓				
Tolerance	2B / 3B / 6GX / 6HMOD / 6HX / NORMAL	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 catalogue	C 103	C 87	C 89	C 56	C 108
QR code					
www.walter-tools.com/woc/	paradur-xpert-m	TC121	TC122	kmb-wst	paradur-eco-ci

C1

HSS-E (-PM) taps

Machining



Thread depth

 3 x D_N

 3 x D_N

 3 x D_N

 3 x D_N

 3 x D_N


Designation	Paradur® Eco Plus	Paradur® Uni	Paradur® WLM Synchronspeed	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					✓
Indexable inserts basic shape				✓	✓
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 catalogue	C 63	C 125	C 117	C 114	C 91
QR code					
www.walter-tools.com/woc/	paradur-eco-plus	paradur-uni	paradur-wlm-synchronspeed	paradur-xpert-n	paradur-xpert-p

HSS-E (-PM) taps

Machining					

Thread depth	3 x D _N	3 x D _N	3 x D _N	3 x D _N	3,5 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					
Indexable inserts basic shape					
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 catalogue	C 97	C 70	C 85	C 102	C 83
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 x D _N	3,5 x D _N	1,5 x D _N	3 x D _N	3 x D _N



Designation	Paradur® Short Chip HT	TC130 Supreme	Paradur® Combi	TC115 Perform	TC216 Perform
Thread type					
M	✓	✓	✓	✓	✓
MF	✓	✓			
UNC / UNF / UN-8		✓			
G / Rc / Rp					
MJ / UNJC / UNJF					
NPT / NPTF					
Pg / BSW / Tr					
Indexable inserts basic shape					
Tolerance	6HX	2B / 6HX	6H	6H	6H
Coolant supply	axial	axial	External	External	External
Chamfer form	C	C	C	C	B
Coating / grade	THL / uncoated	WY80AA / WY80EH	uncoated	WY80AA / WY80FC	WY80AA / WY80FC
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 catalogue	C 100	C 79	C 52	C 72	C 28
QR code					
www.walter-tools.com/woc/	paradur-short-chip-ht	TC130	paradur-combi	TC115	TC216

HSS-E PM machine taps

mm

Prototex® Eco Plus



- For long-chipping materials

$\leq 3,5 \times D_N$

$B=3,5-5$

42HRC
1350-500
N/mm²

M
DIN 13

6HX

	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	□ mm	l_9 mm	N
 Parallel shank	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	

DIN 376		Designation THL	Designation TIN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N
 Parallel shank	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	

WALTER SELECT

●● Primary application ● Other application

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

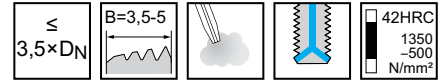
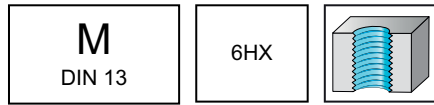
HSS-E PM machine taps

mm

Prototex® 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	□ mm	l _g 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

DIN 376	Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g 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

C1

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

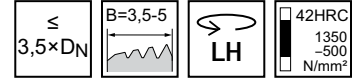
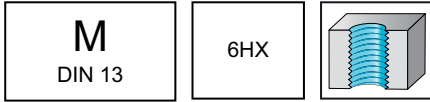
HSS-E PM machine taps

mm

Prototex® 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	□ mm	l _g 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

DIN 376	Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g 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

C1

WALTER SELECT ●● Primary application ● Other application

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

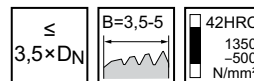
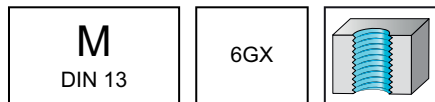
HSS-E PM machine taps

mm

Prototex® Eco Plus



- For long-chipping materials



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

DIN 371	Designation	Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	THL	TIN									
<p>Parallel shank</p>	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

C1

DIN 376	Designation	Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	THL	TIN									
<p>Parallel shank</p>	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

WALTER SELECT ●● Primary application ● Other application

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

HSS-E machine taps

TC216 Perform mm



- For long-chipping materials

$\leq 3 \times D_N$

$B=3,5-5$

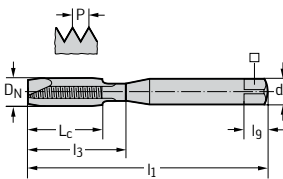
32HRC
 1000-350
 N/mm²

M
DIN 13

ISO2/6H

	P	M	K	N	S	H	O
WY80AA	●●	●●	●●	●●			
WY80FC	●●	●●	●●	●●			

DIN 371

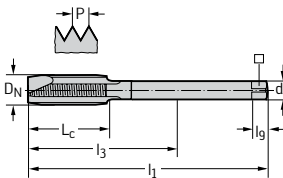


Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AA	WY80FC
TC216-M1.6-C0-	M 1.6	0,35	40	7	7	2,5	2,1	5	2	●●	●●
TC216-M2-C0-	M 2	0,4	45	6	9	2,8	2,1	5	2	●●	●●
TC216-M2.5-C0-	M 2.5	0,45	50	8	12,5	2,8	2,1	5	2	●●	●●
TC216-M3-C0-	M 3	0,5	56	9	18	3,5	2,7	6	2	●●	●●
TC216-M4-C0-	M 4	0,7	63	12	21	4,5	3,4	6	3	●●	●●
TC216-M5-C0-	M 5	0,8	70	13	25	6	4,9	8	3	●●	●●
TC216-M6-C0-	M 6	1	80	15	30	6	4,9	8	3	●●	●●
TC216-M8-C0-	M 8	1,25	90	18	35	8	6,2	9	3	●●	●●
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



Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AA	WY80FC
TC216-M12-L0-	M 12	1,75	110	23	83	9	7	10	3	●●	●●
TC216-M14-L0-	M 14	2	110	25	81	11	9	12	4	●●	●●
TC216-M16-L0-	M 16	2	110	25	68	12	9	12	4	●●	●●
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

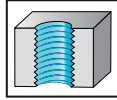
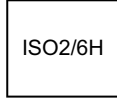
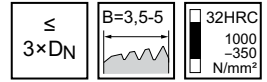
●● Primary application ● Other application

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	●●	●●	●●	●●			
WY80FC	●●	●●	●●	●●			

Tool



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

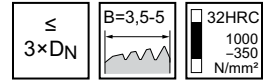
C1

HSS-E tap set 2

TC216 Perform



- Universal tap set
- Incl. Core-hole drill



	P	M	K	N	S	H	O
WY80AA	●●	●●	●●	●●			
WY80FC	●●	●●	●●	●●			

Tool	Designation	D _N	Sets dia. mm		Quantity	WY80AA	WY80FC
	TC216-SET2-M3-M12-	M 3 – M 12	2,5	10,2	14	☸	
	TC216-SET2-M3-M12-	M 3 – M 12	2,5	10,2	14		☸

C1

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

HSS-E machine taps

mm

Prototex® Synchronspeed



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

\leq
3×DN

B=3,5-5

44HRC
 1400
 N/mm²

M
DIN 13

6HX

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

~DIN 371	Designation	Designation	DN	P	l ₁	L _c	l ₃	d ₁	□	l _g	N
	THL	TIN									
 Parallel shank	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

~DIN 376	Designation	Designation	DN	P	l ₁	L _c	l ₃	d ₁	□	l _g	N
	THL	TIN									
 Parallel shank	S2026302-M12	S2026305-M12	M 12	1,75	110	18	42	12	9	12	3
	S2026302-M14	S2026305-M14	M 14	2	110	20	49	14	11	14	3
	S2026302-M16	S2026305-M16	M 16	2	110	20	55	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

HSS-E machine taps

mm

Prototex® OS



- For long-chipping materials

≤
1×DN

B=3,5-5

14HRC
700
-200
N/mm²

M
DIN 13

ISO2/6H

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

DIN 371	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	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

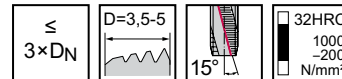
●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine taps

mm

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	□ 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

Parallel shank

DIN 376	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ 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

Parallel shank

C1

WALTER SELECT ●● Primary application ● Other application

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

HSS-E machine taps

mm

Prototex® X-pert P



- Reduced number of grooves
- For long-chipping materials

≤
3×DN

B=3,5-5

32HRC
1000-200
N/mm²

M
DIN 13

ISO1/4H

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

DIN 371	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	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

mm

Prototex® X-pert P



\leq
3×DN

$B=3,5-5$

32HRC
1000
-200
N/mm²

- For long-chipping materials

M
DIN 13

ISO2/6H

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

DIN 371	Designation TICN	Designation TIN	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	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

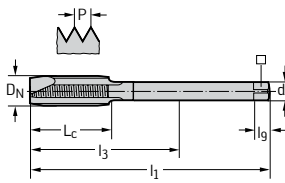
C1

**WALTER
SELECT**

●● Primary application ● Other application

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

DIN 376



Designation TICN	Designation TIN	Designation uncoated	D _N	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ 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

l₉ dimensions in accordance with DIN 10

C1

HSS-E machine taps

mm

Prototex® X-pert P



- Reduced number of grooves
- For long-chipping materials

\leq
3×DN

B=3,5-5

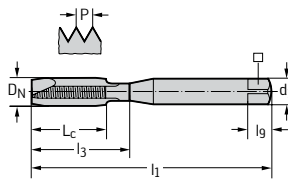
32HRC
 1000
 ~200
 N/mm²

M
DIN 13

ISO2/6H

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

DIN 371



Parallel shank

Designation TIN	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
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

C1

**WALTER
SELECT**

●● Primary application ● Other application

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

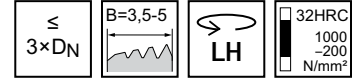
HSS-E machine taps

mm

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	□ 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	□ 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

C1

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

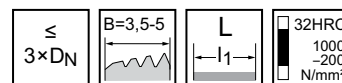
HSS-E machine taps

mm

Prototex® X-pert P



- For long-chipping materials



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

~DIN 371 L	Designation	Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N
	TIN	uncoated									
<p>Parallel shank</p>	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	Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N	
	TIN	uncoated										
<p>Parallel shank</p>		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

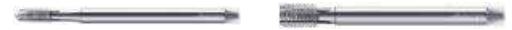
**WALTER
SELECT**

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

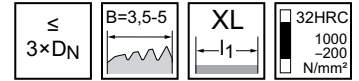
HSS-E machine taps

mm

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	□ mm	l _g mm	N
<p>Parallel shank</p>	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	□ mm	l _g mm	N
<p>Parallel shank</p>	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

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

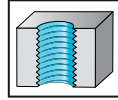
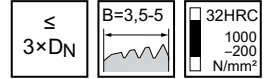
HSS-E machine taps

mm

Prototex® X-pert P AZ

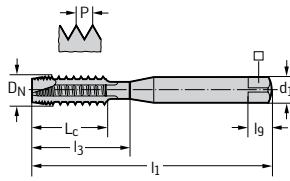


- For long-chipping materials
- For thin-walled workpieces



	P	M	K	N	S	H	O
uncoated	●●		●●	●●			●

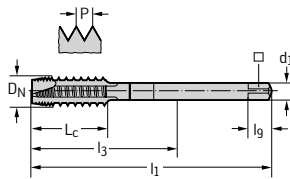
DIN 371



Parallel shank

Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ 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



Parallel shank

Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ 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

C1

WALTER SELECT

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

HSS-E machine taps

mm

Prototex® X-pert P



- For long-chipping materials

$\leq 3 \times D_N$

$B=3,5-5$

32HRC
 1000
 -200
 N/mm²

M
DIN 13

ISO3/6G

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

DIN 371		Designation TIN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N	
<p>Parallel shank</p>			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	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	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N
<p>Parallel shank</p>		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

mm

Prototex® X-pert P



- Reduced number of grooves
- For long-chipping materials

\leq
3×DN

B=3,5-5

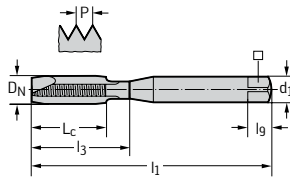
32HRC
 1000
 ~200
 N/mm²

M
DIN 13

ISO3/6G

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

DIN 371



Parallel shank

Designation TIN	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ 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

HSS-E machine taps

mm

Prototex® X-pert P



- For long-chipping materials

$\leq 3 \times D_N$

$B=3,5-5$

32HRC
 1000
 -200
 N/mm²

M
 DIN 13

7G

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

DIN 371		Designation TIN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N
<p>Parallel shank</p>	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	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N
<p>Parallel shank</p>	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

HSS-E machine taps

mm

Prototex® X-pert M



$\leq 3 \times D_N$
 $B=3,5-5$
 36HRC
 1200
 -700
 N/mm²

- For long-chipping materials

M
 DIN 13

6HX

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

DIN 371			Designation TICN	Designation TIN	Designation VAP	D_N	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_g mm	N
<p>Parallel shank</p>			M20213-M1	M 1	40	5	5	2,5	2,1	5	2		
			M20213-M1.2	M 1.2	40	5	5	2,5	2,1	5	2		
			M20213-M1.4	M 1.4	40	7	6,5	2,5	2,1	5	2		
			M20213-M1.6	M 1.6	40	7	7	2,5	2,1	5	2		
			M20213-M1.7	M 1.7	40	7	7	2,5	2,1	5	2		
			M20213-M1.8	M 1.8	40	7	7	2,5	2,1	5	2		
	M2021306-M2	M2021305-M2	M20213-M2	M 2	45	6	9	2,8	2,1	5	2		
			M20213-M2.2	M 2.2	45	7	12	2,8	2,1	5	2		
			M20213-M2.3	M 2.3	45	7	12	2,8	2,1	5	2		
	M2021306-M2.5	M2021305-M2.5	M20213-M2.5	M 2.5	50	8	12,5	2,8	2,1	5	2		
		M20213-M2.6	M 2.6	50	8	12,5	2,8	2,1	5	2			
M2021306-M3	M2021305-M3	M20213-M3	M 3	56	9	18	3,5	2,7	6	2			
M2021306-M3.5	M2021305-M3.5	M20213-M3.5	M 3.5	56	11	20	4	3	6	2			
M2021306-M4	M2021305-M4	M20213-M4	M 4	63	12	21	4,5	3,4	6	3			
		M20213-M4.5	M 4.5	70	13	25	6	4,9	8	3			
M2021306-M5	M2021305-M5	M20213-M5	M 5	70	13	25	6	4,9	8	3			
M2021306-M6	M2021305-M6	M20213-M6	M 6	80	15	30	6	4,9	8	3			
		M20213-M7	M 7	80	15	30	7	5,5	8	3			
M2021306-M8	M2021305-M8	M20213-M8	M 8	90	18	35	8	6,2	9	3			
M2021306-M10	M2021305-M10	M20213-M10	M 10	100	20	39	10	8	11	3			

≤ M 1.4: 5HX

≤ M 1.8: Without reduced neck after the thread

l_g dimensions in accordance with DIN 10

DIN 376			Designation TICN	Designation TIN	Designation VAP	D_N	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_g mm	N
<p>Parallel shank</p>			M2026306-M5		M20263-M5	M 5	70	13	49	3,5	2,7	6	3
			M2026306-M6		M20263-M6	M 6	80	15	59	4,5	3,4	6	3
			M2026306-M8		M20263-M8	M 8	90	18	67	6	4,9	8	3
			M2026306-M10		M20263-M10	M 10	100	20	77	7	5,5	8	3
	M2026306-M12	M2026305-M12	M20263-M12	M 12	110	23	83	9	7	10	4		
	M2026306-M14	M2026305-M14	M20263-M14	M 14	110	25	81	11	9	12	4		
	M2026306-M16	M2026305-M16	M20263-M16	M 16	110	25	68	12	9	12	4		
			M20263-M18	M 18	125	30	81	14	11	14	4		
	M2026306-M20	M2026305-M20	M20263-M20	M 20	140	30	95	16	12	15	4		
			M20263-M22	M 22	140	30	93	18	14,5	17	4		
M2026306-M24		M20263-M24	M 24	160	36	113	18	14,5	17	4			
		M20263-M27	M 27	160	36	97	20	16	19	4			
		M20263-M30	M 30	180	42	115	22	18	21	4			
		M20263-M33	M 33	180	42	113	25	20	23	5			
		M20263-M36	M 36	200	48	131	28	22	25	5			

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

mm

Prototex® X-pert M



- For long-chipping materials

$\leq 3 \times D_N$

$B=3,5-5$

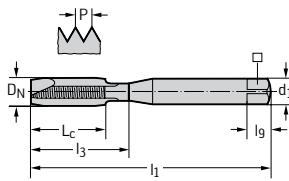
36HRC
 1200
 -700
 N/mm²

M
 DIN 13

6GX

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

DIN 371



Parallel shank

Designation TICN	Designation VAP	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	l_g mm	N
M2023306-M3	M20233-M3	M 3	0,5	56	9	18	3,5	2,7	6 2
M2023306-M4	M20233-M4	M 4	0,7	63	12	21	4,5	3,4	6 3
M2023306-M5	M20233-M5	M 5	0,8	70	13	25	6	4,9	8 3
M2023306-M6	M20233-M6	M 6	1	80	15	30	6	4,9	8 3
M2023306-M7	M20233-M7	M 7	1	80	15	30	7	5,5	8 3
M2023306-M8	M20233-M8	M 8	1,25	90	18	35	8	6,2	9 3
M2023306-M10	M20233-M10	M 10	1,5	100	20	39	10	8	11 3

C1

**WALTER
SELECT**

●● Primary application ● Other application

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

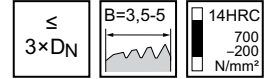
HSS-E machine taps

mm

Prototex® 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	□ mm	l_9 mm	N
	N20219-M2	M 2	0,4	45	6	9	2,8	2,1	5	2
	N20219-M2.5	M 2.5	0,45	50	8	12,5	2,8	2,1	5	2
	N20219-M3	M 3	0,5	56	9	18	3,5	2,7	6	2
	N20219-M4	M 4	0,7	63	12	21	4,5	3,4	6	2
	N20219-M5	M 5	0,8	70	13	25	6	4,9	8	2
	N20219-M6	M 6	1	80	15	30	6	4,9	8	3
	N20219-M8	M 8	1,25	90	18	35	8	6,2	9	3
	N20219-M10	M 10	1,5	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

mm

Prototex® TiNi



- Recommended with oil
- For long-chipping materials

≤
2×DN

B=3,5-5

44HRC
1400
-700
N/mm²

M
DIN 13

4HX

	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	□ mm	l ₉ mm N	
									mm	N
<p>Parallel shank</p>	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

mm

Prototex® TiNi



- Recommended with oil
- For long-chipping materials

$\leq 2 \times D_N$

$B=3,5-5$

44HRC
1400
~700
N/mm²

M
DIN 13

6HX

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

~DIN 371		Designation TiCN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N
<p>Parallel shank</p>		202161-M1	202161-M1.2	M 1	0,25	40	5	5	2,5	2,1	5	2
		202161-M1.4	202161-M1.6	M 1.4	0,3	40	5	5	2,5	2,1	5	2
		202161-M1.8	202161-M2	M 1.8	0,35	40	5	5	2,5	2,1	5	2
		2021616-M2	202161-M2.2	M 2	0,4	45	8	8	2,8	2,1	5	2
		2021616-M2.5	202161-M2.5	M 2.5	0,45	45	8	8	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
		2021616-M4.5	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	\square mm	l_9 mm	N
<p>Parallel shank</p>		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

mm

Prototex® TiNi Plus



- Recommended with emulsion
- For long-chipping materials

≤
2×DN

B=3,5-5

44HRC
1400
-700
N/mm²

M
DIN 13

6HX

ACN

P	M	K	N	S	H	O
---	---	---	---	---	---	---

~DIN 371	Designation ACN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
Parallel shank	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	□ mm	l _g mm	N
Parallel shank	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

mm

Prototex® Sprint



- For long-chipping materials

\leq
3×D_N

B=3,5-5

36HRC
 1200
 -350
 N/mm²

M
DIN 13

ISO2/6H

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

DIN 371		Designation TICN	Designation TIN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ 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

Parallel shank

DIN 376		Designation TIN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ 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

Parallel shank

C1

**WALTER
SELECT**

●● Primary application ● Other application

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

machining conditions

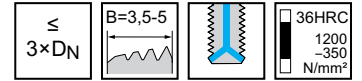
HSS-E PM machine taps

mm

Prototex® Megasprint

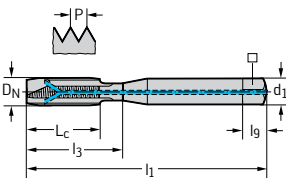


– For long-chipping materials



	P	M	K	N	S	H	O
TIN	●	●		●			

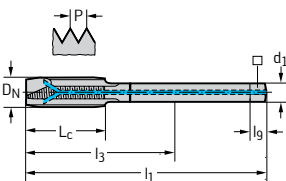
DIN 371



Parallel shank

Designation TIN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 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



Parallel shank

Designation TIN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 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

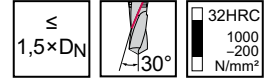
HSS-E machine taps

mm

Paradur® Combi



- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●		●	●			

Tool	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	d _s mm	l _s mm	l ₃ mm	d ₁ mm	□ mm	l _g mm	N
	20417-M3	M 3	0,5	65	11	2,5	63	21	4	2,7	6	2
Parallel shank												

Tool	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	d _s mm	l _s mm	l ₃ mm	d ₁ mm	□ mm	l _g mm	N
	20467-M10	M 10	1,5	100	17	8,5	100	77	7	5,5	8	4
Parallel shank												

C1

WALTER SELECT ●● Primary application ● Other application

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

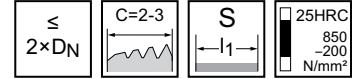
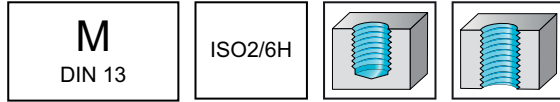
HSS hand-held tap set

mm

HGB



– For long- and short-chipping materials



	P	M	K	N	S	H	O
uncoated	●	●	●	●	●	●	●

DIN 352	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
<p>Parallel shank</p>	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

C1

WALTER SELECT ●● Primary application ● Other application

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

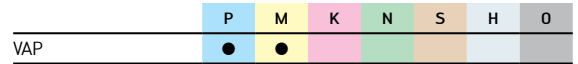
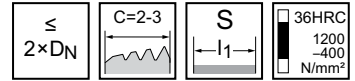
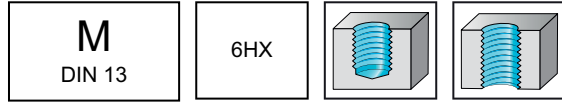
HSS-E hand-held tap set

mm

HGB Inox



- For long-chipping materials



DIN 352	Designation VAP	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ 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

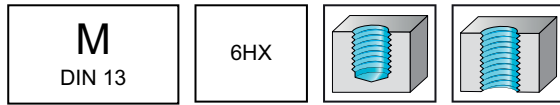
HSS-E hand-held tap set

mm

HGB Ti



- For long-chipping materials



≤
2×DN

C=2-3

S
l₁

47HRC
1500
-700
N/mm²

	P	M	K	N	S	H	O
NID					●		

DIN 352		Designation NID	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g 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
	Parallel shank		30016-M12	M 12	1,75	75	25	20,6	9	7	10

Ordering code includes initial, intermediate and final cutter.

C1

WALTER SELECT

●● Primary application ● Other application

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

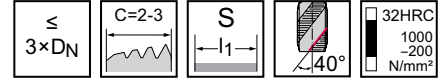
HSS-E taps, short

mm

KMB WST



- For long-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	□ 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

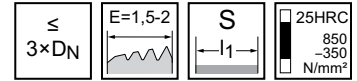
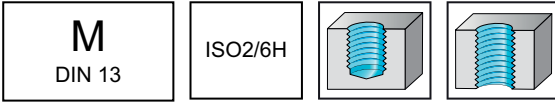
HSS-E taps, short

mm

KMB Ms

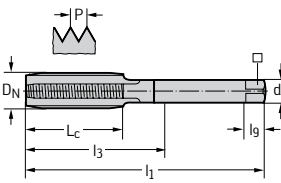


- For short-chipping materials



	P	M	K	N	S	H	O
uncoated				●●			●

DIN 2184-2



Parallel shank

Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ 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

mm

KMB H



- For long-chipping materials

M

DIN 13

ISO2/6H

$\leq 3 \times D_N$

$B=3,5-5$

S

32HRC

1000-200 N/mm²

	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	\square mm	l_9 mm	N
<p>Parallel shank</p>		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

mm

MMB



- For long-chipping materials

M
DIN 13

ISO2/6H

$\leq 1 \times D_N$

28HRC
 900
 -200
 N/mm²

	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	□ mm	l ₉ 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

C1

WALTER SELECT

●● Primary application ● Other application

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

HSS-E automatic taps

mm

AMB



- For long-chipping materials

M
DIN 13

7G

$\leq 1 \times D_N$

$18 \times P$

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

C1

WALTER SELECT

●● Primary application ● Other application

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

HSS-E automatic taps

mm

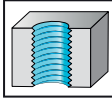
AMB Inox



- For long-chipping materials

M
DIN 13

6HX

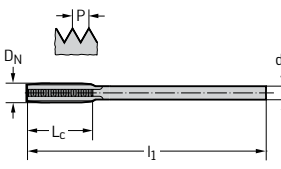


$\leq 1 \times D_N$

$18 \times P$

33HRC
1100
-400
N/mm²

	P	M	K	N	S	H	O
NID		●●					

AMB-NORM	Designation NID	D_N	P mm	l_1 mm	L_c mm	d_1 h_{12} 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

C1

WALTER SELECT

●● Primary application ● Other application

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

HSS-E stepped AMB

mm

Protostep Inox



- For long-chipping materials
- Three-stage

$\leq 1 \times D_N$

33HRC
1100
400
N/mm ²

M
DIN 13

6HX

VAP

P	M	K	N	S	H	O
	●●					

AMB-NORM	Designation VAP	D _N	P mm	l ₁ mm	L _c mm	d ₁ h12 mm	N
	20944-M5	M 5	0,8	271	19	3,9	3
	20944-M6	M 6	1	271	24	4,6	3
	20944-M8	M 8	1,25	271	30	6,1	3
	20944-M10	M 10	1,5	271	36	8	3
	20944-M12	M 12	1,75	271	42	9,4	4

Cylindrical shank

MAS 14, T-STAR 10

AMB-NORM	Designation VAP	D _N	P mm	l ₁ mm	L _c mm	d ₁ h12 mm	N
	20954-M14	M 14	2	435	48	11,1	4
	20954-M16	M 16	2	435	48	13,2	4

Cylindrical shank

MAS 20, T-STAR 20

C1

WALTER SELECT

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

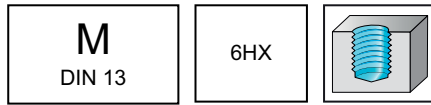
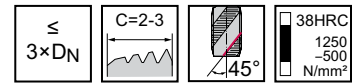
HSS-E PM machine taps

mm

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	mm	l_g mm	N
<p>Parallel shank</p>		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	mm	l_g mm	N
<p>Parallel shank</p>		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

C1

WALTER SELECT ●● Primary application ● Other application

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

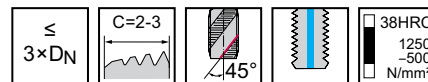
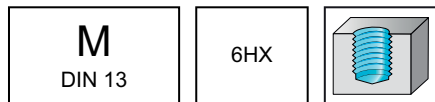
HSS-E PM machine taps

mm

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	□ mm	l_g 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	□ mm	l_g 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

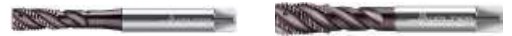
WALTER SELECT ●● Primary application ● Other application

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

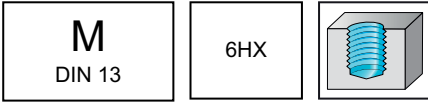
HSS-E PM machine taps

mm

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	□ mm	l _g mm	N
	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	□ mm	l _g mm	N
	EP2056342-M16	M 16	2	110	20	68	12	9	12	4

C1

WALTER SELECT ●● Primary application ● Other application

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

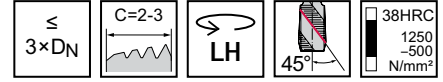
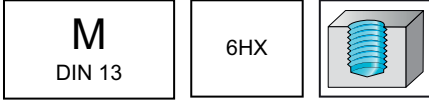
HSS-E PM machine taps

mm

Paradur® Eco Plus

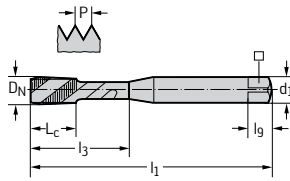


- For long-chipping materials



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			

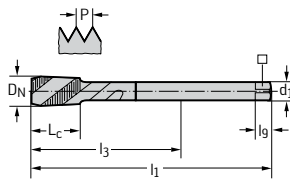
~DIN 371



Parallel shank

Designation THL	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 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



Parallel shank

Designation THL	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 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

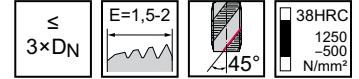
HSS-E PM machine taps

mm

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	□ mm	l_g mm	N
	EP2051362-M4	M 4	0,7	63	7	14,8	4,5	3,4	6	3
	EP2051362-M5	M 5	0,8	70	8	20,7	6	4,9	8	3
	EP2051362-M6	M 6	1	80	10	25	6	4,9	8	3
	EP2051362-M8	M 8	1,25	90	12	35	8	6,2	9	4
	EP2051362-M10	M 10	1,5	100	15	39	10	8	11	4

Parallel shank

DIN 376	Designation THL	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_g mm	N
	EP2056362-M12	M 12	1,75	110	16	83	9	7	10	4
	EP2056362-M16	M 16	2	110	20	68	12	9	12	4
	EP2056362-M20	M 20	2,5	140	25	95	16	12	15	4
	EP2056362-M24	M 24	3	160	30	113	18	14,5	17	5

Parallel shank

WALTER SELECT ●● Primary application ● Other application

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

C1

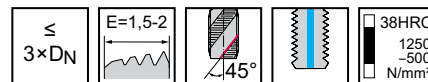
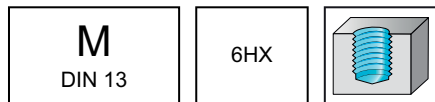
HSS-E PM machine taps

mm

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	□ mm	l _g mm	N
	EP2051352-M4	M 4	0,7	63	7	14,8	4,5	3,4	6	3
	EP2051352-M5	M 5	0,8	70	8	20,7	6	4,9	8	3
	EP2051352-M6	M 6	1	80	10	25	6	4,9	8	3
	EP2051352-M8	M 8	1,25	90	12	35	8	6,2	9	4
	EP2051352-M10	M 10	1,5	100	15	39	10	8	11	4

Parallel shank

DIN 376	Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	EP2056352-M12	M 12	1,75	110	16	83	9	7	10	4
	EP2056352-M16	M 16	2	110	20	68	12	9	12	4
	EP2056352-M20	M 20	2,5	140	25	95	16	12	15	4

Parallel shank

C1

WALTER SELECT ●● Primary application ● Other application

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

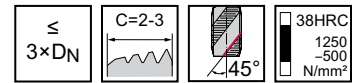
HSS-E PM machine taps

mm

Paradur® Eco Plus



– For long-chipping materials



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

~DIN 371	Designation	Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N
	THL	TIN									
<p>Parallel shank</p>	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	Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N
	THL	TIN									
<p>Parallel shank</p>	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

C1

WALTER SELECT ●● Primary application ● Other application

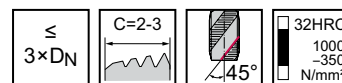
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

TC115 Perform mm

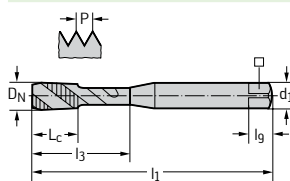


- For long-chipping materials



	P	M	K	N	S	H	O
WY80AA	●●	●●	●●	●			
WY80FC	●●	●●	●●	●			

DIN 371

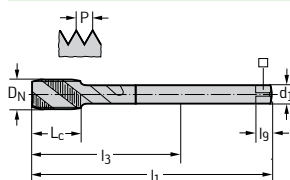


Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AA	WY80FC
TC115-M1.6-C0-	M 1.6	0,35	40	6	6	2,5	2,1	5	2	●●	●●
TC115-M2-C0-	M 2	0,4	45	4	9	2,8	2,1	5	3	●●	●●
TC115-M2.5-C0-	M 2.5	0,45	50	4	12,5	2,8	2,1	5	3	●●	●●
TC115-M3-C0-	M 3	0,5	56	6	18	3,5	2,7	6	3	●●	●●
TC115-M4-C0-	M 4	0,7	63	7	21	4,5	3,4	6	3	●●	●●
TC115-M5-C0-	M 5	0,8	70	8	25	6	4,9	8	3	●●	●●
TC115-M6-C0-	M 6	1	80	10	30	6	4,9	8	3	●●	●●
TC115-M8-C0-	M 8	1,25	90	12	35	8	6,2	9	3	●●	●●
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



Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AA	WY80FC
TC115-M12-L0-	M 12	1,75	110	16	83	9	7	10	3	●●	●●
TC115-M14-L0-	M 14	2	110	20	81	11	9	12	3	●●	●●
TC115-M16-L0-	M 16	2	110	20	68	12	9	12	3	●●	●●
TC115-M20-L0-	M 20	2,5	140	25	95	16	12	15	4	●●	●●

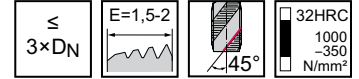
Ordering example for the grade WY80AA: TC115-M12-L0-WY80AA

HSS-E machine taps

TC115 Perform mm



- For long-chipping materials



	P	M	K	N	S	H	O
WY80AA	●●	●●	●●	●			

DIN 371		Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N	WY80AA
<p>Parallel shank</p>		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	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N	WY80AA
<p>Parallel shank</p>		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

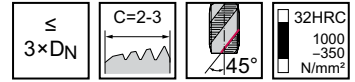
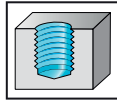
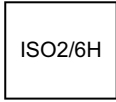
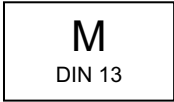
Best tool for → Good = ☺ → Average = ☹ → Poor = ☼ machining conditions

HSS-E tap set 1

TC115 Perform



- Universal tap set



	P	M	K	N	S	H	O
WY80AA	●●	●●	●●	●			
WY80FC	●●	●●	●●	●			

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

Bodies and assembly parts are included in the scope of delivery | Ordering example for the grade WY80AA: TC115-SET1-M3-M12-WY80AA

C1

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

$\leq 3 \times D_N$

$C=2-3$

$\angle 45^\circ$

32HRC
1000-350
N/mm²

M
DIN 13

ISO2/6H

	P	M	K	N	S	H	O
WY80AA	●●	●●	●●	●	●	●	●
WY80FC	●●	●●	●●	●	●	●	●

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	●●	●●

Bodies and assembly parts are included in the scope of delivery | 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

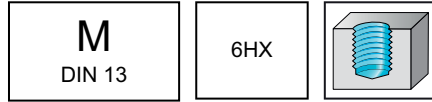
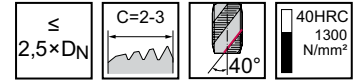
HSS-E machine taps

mm

Paradur® Synchrospeed



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



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

~DIN 371	Designation THL	Designation TIN/VAP	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h6 mm	\square mm	l_g mm	N
		S2051302-M2	S2051305-M2	M 2	0,4	70	4	7,6	6	4,9	8
	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	\square mm	l_g mm	N
		S2056302-M12	S2056305-M12	M 12	1,75	110	18,5	42	12	9	12
	S2056302-M14	S2056305-M14	M 14	2	110	21	49	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

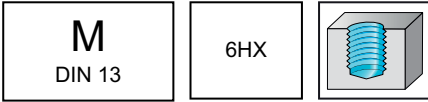
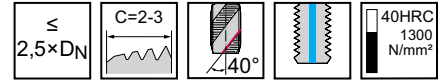
HSS-E machine taps

mm

Paradur® Synchrospeed



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



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

~DIN 371	Designation THL	Designation TIN/VAP	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h6 mm	□ mm	l_g mm	N
		S2051312-M5	S2051315-M5	M 5	0,8	70	8,5	20,7	6	4,9	8
	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

Parallel shank

~DIN 376	Designation THL	Designation TIN/VAP	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h6 mm	□ mm	l_g mm	N
		S2056312-M12	S2056315-M12	M 12	1,75	110	18,5	42	12	9	12
	S2056312-M14	S2056315-M14	M 14	2	110	21	49	14	11	14	3
	S2056312-M16	S2056315-M16	M 16	2	110	21	55	16	12	15	4
	S2056312-M20	S2056315-M20	M 20	2,5	140	26,5	95	16	12	15	4

Parallel shank

WALTER SELECT

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

C1

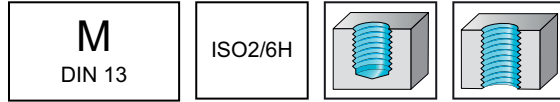
HSS-E machine taps

mm

Paradur® H

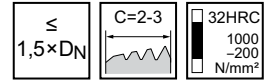


- For long- and short-chipping materials



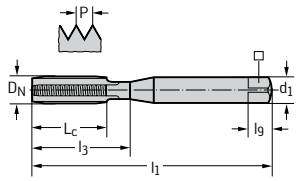
M
DIN 13

ISO2/6H



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

DIN 371



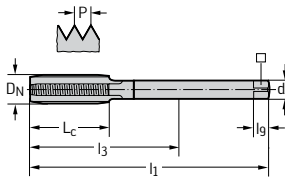
Parallel shank

Designation TIN	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
	20311-M1	M 1	0,25	40	5	5	2,5	2,1	5	3
	20311-M1.2	M 1.2	0,25	40	5	5	2,5	2,1	5	3
	20311-M1.4	M 1.4	0,3	40	6,5	6,5	2,5	2,1	5	3
	20311-M1.6	M 1.6	0,35	40	7	7	2,5	2,1	5	3
	20311-M1.7	M 1.7	0,35	40	7	7	2,5	2,1	5	3
	20311-M1.8	M 1.8	0,35	40	7	7	2,5	2,1	5	3
	20311-M2	M 2	0,4	45	6	9	2,8	2,1	5	3
	20311-M2.3	M 2.3	0,4	45	7	12	2,8	2,1	5	3
	20311-M2.2	M 2.2	0,45	45	7	12	2,8	2,1	5	3
	20311-M2.5	M 2.5	0,45	50	8	12,5	2,8	2,1	5	3
	20311-M2.6	M 2.6	0,45	50	8	12,5	2,8	2,1	5	3
203115-M3	20311-M3	M 3	0,5	56	9	18	3,5	2,7	6	3
203115-M3.5	20311-M3.5	M 3.5	0,6	56	11	20	4	3	6	3
203115-M4	20311-M4	M 4	0,7	63	12	21	4,5	3,4	6	3
203115-M5	20311-M5	M 5	0,8	70	13	25	6	4,9	8	3
203115-M6	20311-M6	M 6	1	80	15	30	6	4,9	8	3
203115-M7	20311-M7	M 7	1	80	15	30	7	5,5	8	3
203115-M8	20311-M8	M 8	1,25	90	18	35	8	6,2	9	3
203115-M10	20311-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

DIN 376



Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
20361-M2	M 2	0,4	45	6	26	1,4	1,1	4	3
20361-M2.5	M 2.5	0,45	50	8	31	1,8	1,4	4	3
20361-M3	M 3	0,5	56	9	37	2,2	1,8	4	3
20361-M4	M 4	0,7	63	12	43	2,8	2,1	5	3
20361-M5	M 5	0,8	70	13	49	3,5	2,7	6	3
20361-M6	M 6	1	80	15	59	4,5	3,4	6	3
20361-M8	M 8	1,25	90	18	67	6	4,9	8	3
20361-M10	M 10	1,5	100	20	77	7	5,5	8	3
20361-M12	M 12	1,75	110	23	83	9	7	10	3
20361-M14	M 14	2	110	25	81	11	9	12	3
20361-M16	M 16	2	110	25	68	12	9	12	3
20361-M18	M 18	2,5	125	30	81	14	11	14	4
20361-M20	M 20	2,5	140	30	95	16	12	15	4
20361-M24	M 24	3	160	36	113	18	14,5	17	4
20361-M27	M 27	3	160	36	97	20	16	19	4
20361-M30	M 30	3,5	180	42	115	22	18	21	4
20361-M33	M 33	3,5	180	42	113	25	20	23	4
20361-M36	M 36	4	200	48	131	28	22	25	4
20361-M42	M 42	4,5	200	54	102	32	24	27	4

HSS-E machine taps

mm

Paradur® H AZ



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

$\leq 1,5 \times D_N$

$C=2-3$

32HRC
 1000-200
 N/mm²

M
DIN 13

ISO2/6H

	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	□ mm	l _g 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

Parallel shank

C1

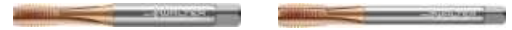
WALTER SELECT

●● Primary application ● Other application

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

HSS-E machine taps

TC130 Supreme mm



- WY80AA: Good Performance
- WY80EH: Excellent Performance

$\leq 3,5 \times D_N$

$C=2-3$

44HRC
1400-700 N/mm²

M
DIN 13

6HX

	P	M	K	N	S	H	O
WY80AA	●●		●●	●			●
WY80EH	●●		●●	●			●

DIN 371		Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AA	WY80EH
		TC130-M4-C1-	M 4	0,7	63	12	21	4,5	3,4	6	3	●●	●●
		TC130-M5-C1-	M 5	0,8	70	13	25	6	4,9	8	3	●●	●●
		TC130-M6-C1-	M 6	1	80	15	30	6	4,9	8	3	●●	●●
		TC130-M8-C1-	M 8	1,25	90	18	35	8	6,2	9	3	●●	●●
		TC130-M10-C1-	M 10	1,5	100	20	39	10	8	11	3	●●	●●

Parallel shank

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

DIN 376		Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AA	WY80EH
		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-	M 16	2	110	25	68	12	9	12	3	●●	●●
		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-	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-	M 30	3,5	180	42	115	22	18	21	4	●●	●●
		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	●●	●●

Parallel shank

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

WALTER SELECT

●● Primary application ● Other application

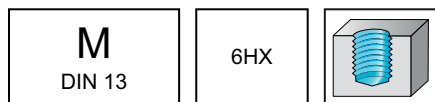
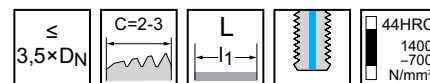
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

TC130 Supreme

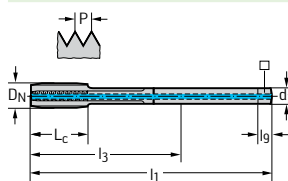


- WY80AA: Good Performance
- WY80EH: Excellent Performance



	P	M	K	N	S	H	O
WY80AA	●●		●●	●			●
WY80EH	●●		●●	●			●

~DIN 376 L



Parallel shank

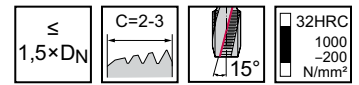
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AA	WY80EH
TC130-M8-LG-	M 8	1,25	110	18	87	6	4,9	8	3	●●	●●
TC130-M10-LG-	M 10	1,5	125	20	102	7	5,5	8	3	●●	●●
TC130-M12-LG-	M 12	1,75	140	23	113	9	7	10	3	●●	●●
TC130-M14-LG-	M 14	2	140	25	111	11	9	12	3	●●	
TC130-M16-LG-	M 16	2	160	25	118	12	9	12	3	●●	●●
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-	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-	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-	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

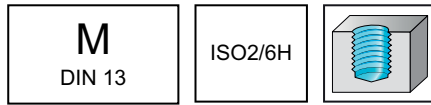
HSS-E machine taps

mm

Paradur® N



- For long-chipping materials



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

DIN 371	Designation TICN	Designation TIN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N
<p>Parallel shank</p>			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

l_9 dimensions in accordance with DIN 10

DIN 376	Designation TICN	Designation TIN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N
<p>Parallel shank</p>			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

l_9 dimensions in accordance with DIN 10

WALTER SELECT ●● Primary application ● Other application

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

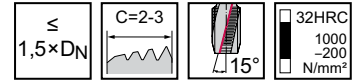
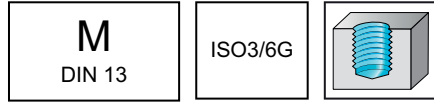
HSS-E machine taps

mm

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	□ mm	l _g 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

C1

DIN 376	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g 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

WALTER SELECT ●● Primary application ● Other application

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

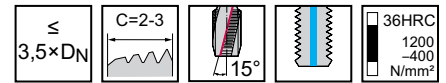
HSS-E machine taps

mm

Paradur® NH



– For long-chipping materials



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

DIN 371		Designation TIN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ 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

Parallel shank

DIN 376		Designation TIN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N
		2046215-M12	2046210-M12	M 12	1,75	110	23	83	9	7	10	4

Parallel shank

**WALTER
SELECT**

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

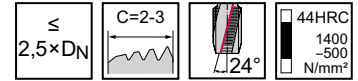
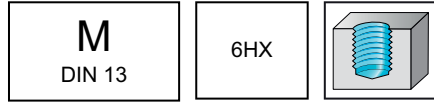
HSS-E PM machine taps

mm

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	□ mm	l _g 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	□ mm	l _g 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

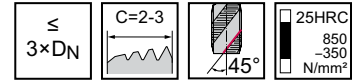
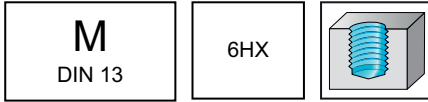
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E-PM machine taps

TC120 Supreme

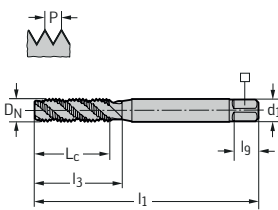


– For long-chipping materials



	P	M	K	N	S	H	O
WW60AG	●●			●			

DIN 371

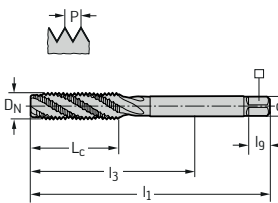


Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N	WW60AG
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



Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N	WW60AG
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

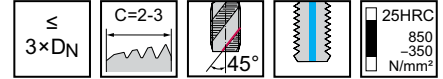
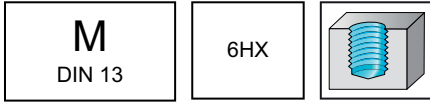
C1

HSS-E-PM machine taps

TC120 Supreme

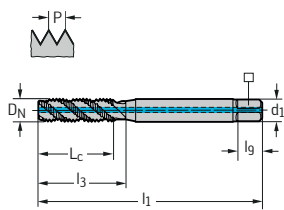


- For long-chipping materials



	P	M	K	N	S	H	O
WW60AG	●●			●			

DIN 371

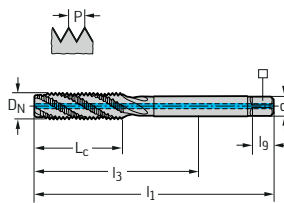


Parallel shank

Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N	WW60AG
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



Parallel shank

Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N	WW60AG
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	●●

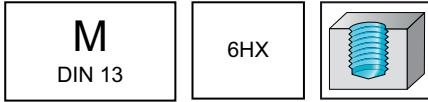
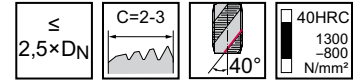
Ordering example for the grade WW60AG: TC120-M12-L1-WW60AG

HSS-E (-PM) machine taps

TC121 Supreme

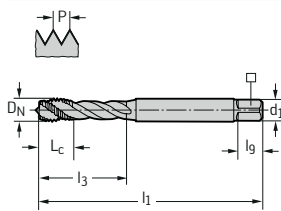


- WW60RG = HSS-E-PM + TiAlN
 - WY80BD = HSS-E + TiCN



	P	M	K	N	S	H	O
WW60RG	●●	●	●	●			
WY80BD	●●	●	●	●			

DIN 371

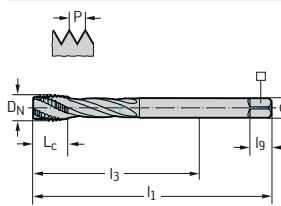


Parallel shank

Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_g mm	N	WW60RG	WY80BD
TC121-M2-C0-	M 2	0,4	45	4	7,6	2,8	2,1	5	3	●●	
TC121-M3-C0-	M 3	0,5	56	6	11	3,5	2,7	6	3	●●	●●
TC121-M4-C0-	M 4	0,7	63	7	14,8	4,5	3,4	6	3	●●	●●
TC121-M5-C0-	M 5	0,8	70	8	20,7	6	4,9	8	3	●●	●●
TC121-M6-C0-	M 6	1	80	10	25	6	4,9	8	3	●●	●●
TC121-M8-C0-	M 8	1,25	90	12	35	8	6,2	9	3	●●	●●
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



Parallel shank

Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_g mm	N	WW60RG	WY80BD
TC121-M12-L0-	M 12	1,75	110	16	83	9	7	10	4	●●	●●
TC121-M14-L0-	M 14	2	110	20	81	11	9	12	4	●●	●●
TC121-M16-L0-	M 16	2	110	20	68	12	9	12	4	●●	●●
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

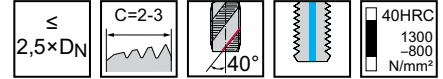
C1

HSS-E (-PM) machine taps

TC121 Supreme

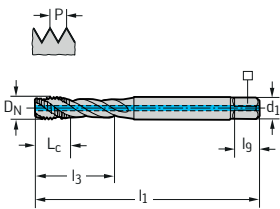


- For long-chipping materials



	P	M	K	N	S	H	O
WW60RG	●●	●	●	●			

DIN 371

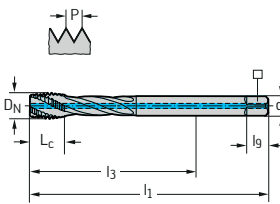


Parallel shank

Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N	WW60RG
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



Parallel shank

Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N	WW60RG
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	☹

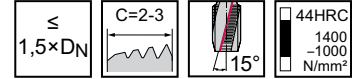
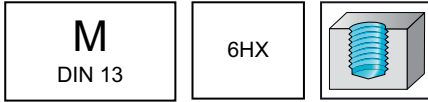
Ordering example for the grade WW60RG: TC121-M12-L1-WW60RG

HSS-E PM machine taps

TC122 Supreme



- For long-chipping materials



	P	M	K	N	S	H	O
WW60BC	●●		●				

DIN 371		Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N	WW60BC
		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	☼

Parallel shank

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

DIN 376		Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N	WW60BC
		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	☼

Parallel shank

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

WALTER SELECT

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

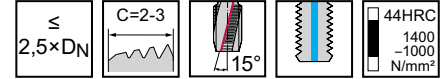
C1

HSS-E PM machine taps

TC122 Supreme

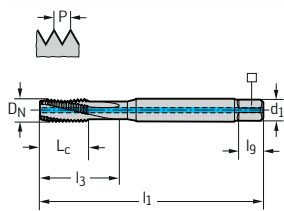


– For long-chipping materials



	P	M	K	N	S	H	O
WW60BC	●●		●				

DIN 371

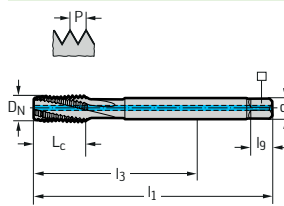


Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N	WW60BC
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



Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N	WW60BC
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

mm

Paradur® X-pert P



– For long-chipping materials

M
DIN 13

ISO1/4H

$\leq 3 \times DN$

C=2-3

$\angle 45^\circ$

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	□ mm	l _g mm	N
<p>Parallel shank</p>	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

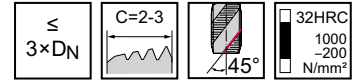
HSS-E machine taps

mm

Paradur® X-pert P



- For long-chipping materials



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

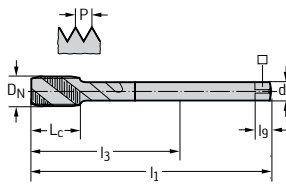
DIN 371		Designation TIN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_g mm	N
<p>Parallel shank</p>		P20519-M1.6	M 1.6	0,35	40	6	6	2,5	2,1	5	2	
		P2051905-M2	P20519-M2	M 2	0,4	45	4	9	2,8	2,1	5	3
		P20519-M2.2	M 2.2	0,45	45	4	12	2,8	2,1	5	3	
		P2051905-M2.5	P20519-M2.5	M 2.5	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



Parallel shank

Designation TIN	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ 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

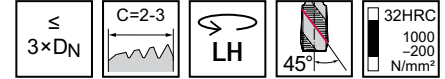
HSS-E machine taps

mm

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	□ mm	l _g 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	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g 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

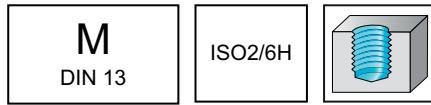
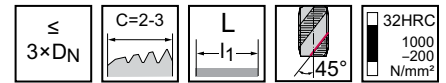
HSS-E machine taps

mm

Paradur® X-pert P



– For long-chipping materials



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

~DIN 371 L	Designation	Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
	THL	uncoated									
<p>Parallel shank</p>	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	Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
	THL	uncoated									
<p>Parallel shank</p>	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

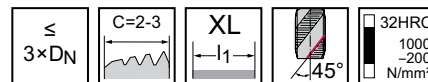
HSS-E machine taps

mm

Paradur® X-pert P



- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●			●			●

~DIN 371 XL

Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ 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

Parallel shank

C1

~DIN 376 XL

Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ 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

Parallel shank

WALTER SELECT

●● Primary application ● Other application

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

HSS-E machine taps

mm

Paradur® X-pert P AZ



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

≤
3×DN

C=2-3

45°

32HRC
1000
-200
N/mm²

M
DIN 13

ISO2/6H

	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	□ 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	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	P40569-M12	M 12	1,75	110	16	83	9	7	10	3

C1

WALTER SELECT

●● Primary application ● Other application

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

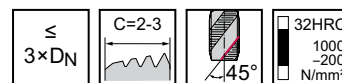
HSS-E machine taps

mm

Paradur® X-pert P



- For long-chipping materials



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

DIN 371		Designation TIN	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>		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	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>		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

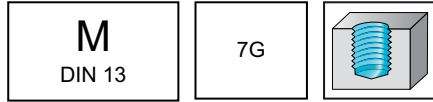
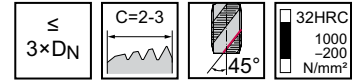
HSS-E machine taps

mm

Paradur® X-pert P



– For long-chipping materials



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

DIN 371		Designation TIN	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	
<p>Parallel shank</p>			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	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	
<p>Parallel shank</p>			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

C1

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

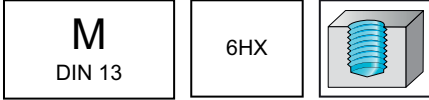
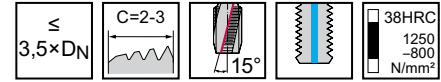
HSS-E machine taps

mm

Paradur® Short Chip HT

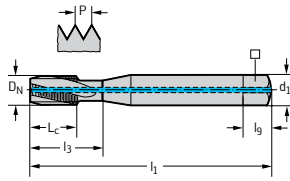


- No problems working with steel materials: No bird nesting
- Reduced helix angle and uncoated surface in the chamfer section



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

DIN 371



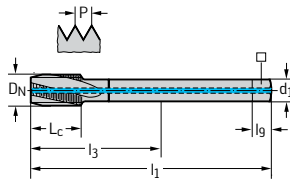
Designation THL	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
20410T2-M5	20410TR-M5	M 5	0,8	70	8	25	6	4,9	8	3
20410T2-M6	20410TR-M6	M 6	1	80	10	30	6	4,9	8	3
20410T2-M8	20410TR-M8	M 8	1,25	90	12	35	8	6,2	9	3
20410T2-M10	20410TR-M10	M 10	1,5	100	15	39	10	8	11	3

Parallel shank

20410TR: Uncoated rake

C1

DIN 376



Designation THL	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
20460T2-M12	20460TR-M12	M 12	1,75	110	16	83	9	7	10	3

Parallel shank

20460TR: Uncoated rake

WALTER
SELECT

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

HSS-E machine taps

mm

Paradur® STE



- For long-chipping materials

$\leq 2,5 \times D_N$

$E=1,5-2$

$\angle 40^\circ$

36HRC
1200-350
N/mm²

M
DIN 13

6HX

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

DIN 371	Designation	Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_g mm	N
	THL	uncoated									
	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	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_g mm	N
	THL									
	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

Parallel shank

C1

WALTER SELECT

●● Primary application ● Other application

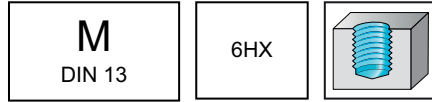
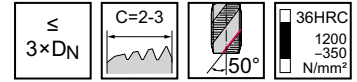
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E (-PM) machine taps

TC142 Supreme

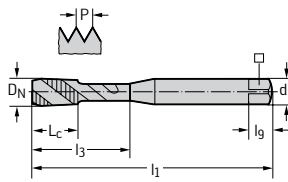


- WY80FC: Best chip control
- WW60RB: Best wear resistance



	P	M	K	N	S	H	O
WY80FC	●	●●	●	●	●	●	●
WW60RB	●	●●	●	●	●	●	●

DIN 371

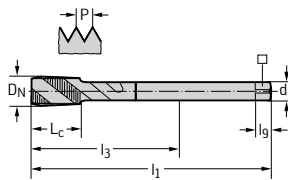


Parallel shank

Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N	WY80FC	WW60RB
TC142-M1.6-C0-	M 1.6	0,35	40	6	6	2,5	2,1	5	2	●●	●
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-	M 3	0,5	56	6	18	3,5	2,7	6	3	●●	●●
TC142-M4-C0-	M 4	0,7	63	7	21	4,5	3,4	6	3	●●	●●
TC142-M5-C0-	M 5	0,8	70	8	25	6	4,9	8	3	●●	●●
TC142-M6-C0-	M 6	1	80	10	30	6	4,9	8	3	●●	●●
TC142-M8-C0-	M 8	1,25	90	12	35	8	6,2	9	3	●●	●●
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



Parallel shank

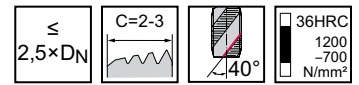
Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N	WW60RB	WY80FC
TC142-M6-L0-	M 6	1	80	10	59	4,5	3,4	6	3	●●	●●
TC142-M8-L0-	M 8	1,25	90	12	67	6	4,9	8	3	●●	●●
TC142-M10-L0-	M 10	1,5	100	15	77	7	5,5	8	3	●●	●●
TC142-M12-L0-	M 12	1,75	110	16	83	9	7	10	3	●●	●●
TC142-M14-L0-	M 14	2	110	20	81	11	9	12	3	●●	●●
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-	M 20	2,5	140	25	95	16	12	15	4	●●	●●
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

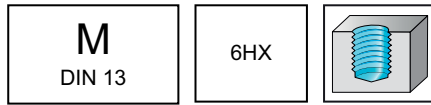
HSS-E machine taps

mm

Paradur® X-pert M



– For long-chipping materials



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

DIN 371	Designation TICN	Designation TIN	Designation VAP	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g 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 2.5: Without thread taper
 ≤ M 1.8: Without reduced neck after the thread
 l_g dimensions in accordance with DIN 10

DIN 376	Designation TICN	Designation TIN	Designation VAP	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
			M20563-M6	M 6	1	80	10	59	4,5	3,4	6	3
			M20563-M8	M 8	1,25	90	12	67	6	4,9	8	3
			M20563-M10	M 10	1,5	100	15	77	7	5,5	8	3
		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
		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
		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
			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
			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_g dimensions in accordance with DIN 10

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

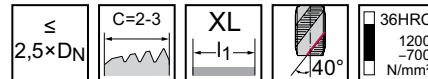
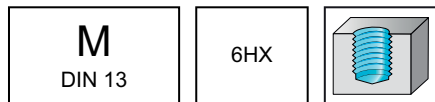
HSS-E machine taps

mm

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	□ mm	l _g 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

Parallel shank

~DIN 376 XL		Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g 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

Parallel shank

C1

HSS-E machine taps

mm

Paradur® X-pert M



– For long-chipping materials

$\leq 2,5 \times D_N$

$C=2-3$

$\angle 40^\circ$

36HRC
1200
-700
N/mm²

M
DIN 13

6GX

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

DIN 371		Designation TICN	Designation VAP	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_g 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

Parallel shank

C1

WALTER SELECT

●● Primary application ● Other application

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

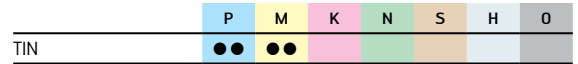
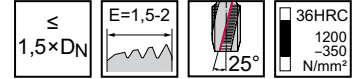
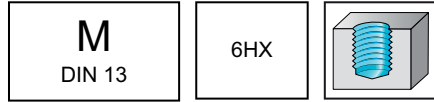
HSS-E machine taps

mm

Paradur Inox® 25



- For long-chipping materials



~DIN 371	Designation TIN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g 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	□ mm	l _g 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

mm

Paradur® Eco CI



- For short-chipping materials
- Nitrided

≤
3×DN

C=2-3

32HRC
1000
-100
N/mm²

M
DIN 13

6HX

	P	M	K	N	S	H	O
TICN							
NID							

DIN 371		Designation NID	Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	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	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	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	

C1

WALTER SELECT

●● Primary application

● Other application

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

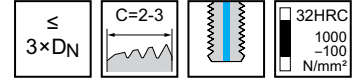
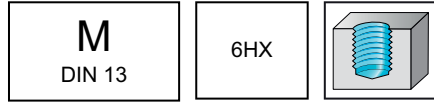
HSS-E PM machine taps

mm

Paradur® Eco CI



- For short-chipping materials
- Nitrided



	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	□ 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

Parallel shank

DIN 376	Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ 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

Parallel shank

C1

WALTER SELECT ●● Primary application ● Other application

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

HSS-E PM machine taps

mm

Paradur® Eco CI



- For short-chipping materials
- Nitrided

≤
3×DN

C=2-3

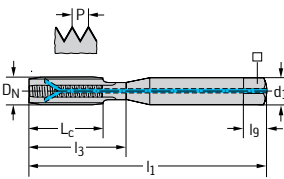
32HRC
1000
-100
N/mm²

M
DIN 13

6HX

	P	M	K	N	S	H	O
TICN			●●	●●			●●

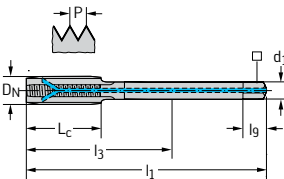
DIN 371



Parallel shank

Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ 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



Parallel shank

Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ 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

C1

**WALTER
SELECT**

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

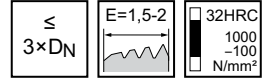
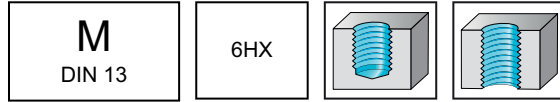
HSS-E PM machine taps

mm

Paradur® Eco CI



- For short-chipping materials
- Nitrided



	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	□ 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	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ 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

C1

WALTER SELECT ●● Primary application ● Other application

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

HSS-E PM machine taps

mm

Paradur® Eco CI



- For short-chipping materials
- Nitrided

≤
3×DN

E=1,5-2

32HRC
1000
-100
N/mm²

M
DIN 13

6HX

TICN

P	M	K	N	S	H	O
---	---	---	---	---	---	---

DIN 371	Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	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

Parallel shank

DIN 376	Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	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

Parallel shank

C1

WALTER
SELECT

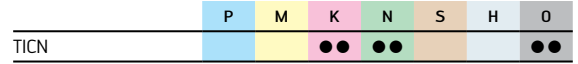
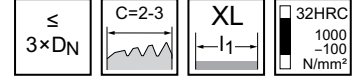
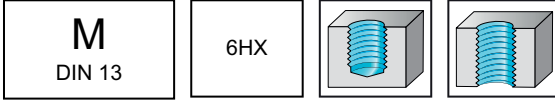
●● Primary application ● Other application

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

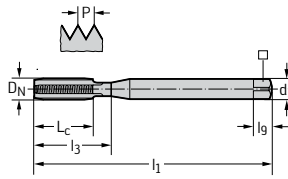
HSS-E PM machine taps

mm

Paradur® Eco CI


 - For short-chipping materials
 - Nitrided


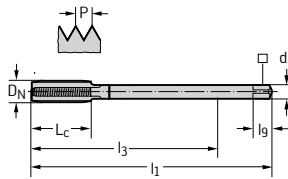
~DIN 371 XL



Parallel shank

Designation TICN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square 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



Parallel shank

Designation TICN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square 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

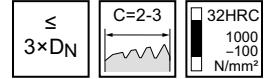
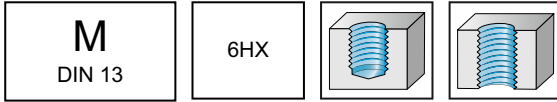
HSS-E PM machine taps

mm

Paradur® X-pert K



– For short-chipping materials



	P	M	K	N	S	H	O
TAPT			●●	●			

DIN 371	Designation TAPT	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g 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 TAPT	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g 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

C1

WALTER SELECT ●● Primary application ● Other application

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

HSS-E machine taps

mm

Paradur® X-pert N



– For long-chipping materials

M
DIN 13

ISO2/6H

$\leq 3 \times D_N$

$C=2-3$

$\angle 35^\circ$

14HRC
700
-200
N/mm²

	P	M	K	N	S	H	O
uncoated				●●	●		●

DIN 371

Parallel shank

Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ 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

Parallel shank

Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ 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

mm

Paradur® X-pert N



- Increased number of grooves
- For long-chipping materials

≤
3×DN

C=2-3

35°

14HRC
700
-200
N/mm²

M
DIN 13

ISO2/6H

	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	□ mm	l _g mm	N
<p>Parallel shank</p>	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

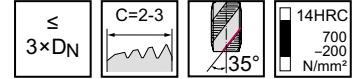
HSS-E machine taps

mm

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	□ mm	l _g 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

mm

Paradur® WLM Synchrospeed



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

$\leq 3 \times D_N$

$C=2-3$

$\angle 45^\circ$

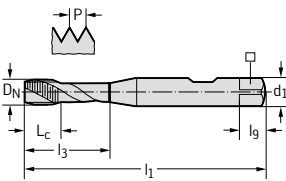
14HRC
700 N/mm²

M
DIN 13

ISO2/6H

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

~DIN 371



Parallel shank

Designation CRN	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ 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

mm

Paradur® AP



- For short-chipping materials
- For Ampco

$\leq 2 \times D_N$ C=2-3 47HRC
 1500-700 N/mm²

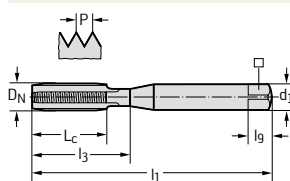
M
DIN 13

6HX

P
M
K
N
S
H
O

NIT

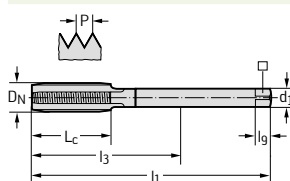
DIN 371



Parallel shank

Designation NIT	D _N	P mm	l ₁ mm	L _C mm	l ₃ mm	d ₁ h9 mm	□ 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



Parallel shank

Designation NIT	D _N	P mm	l ₁ mm	L _C mm	l ₃ mm	d ₁ h9 mm	□ 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

mm

Paradur® Ni



- For long-chipping materials

M
DIN 13

4HX

$\leq 1,5 \times D_N$

$C=2-3$

$\angle 25^\circ$

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	□ mm	l_g mm	N
<p>Parallel shank</p>	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

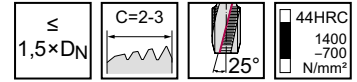
●● Primary application ● Other application

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

HSS-E PM machine taps

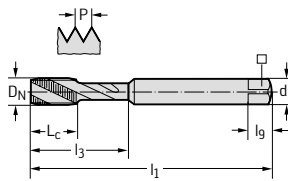
mm

Paradur® Ni



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

~DIN 371

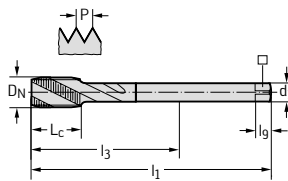


Parallel shank

Designation TICN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ 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

C1

DIN 376



Parallel shank

Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ 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

**WALTER
SELECT**

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

HSS-E PM machine taps

mm

Paradur® Ni 10



- For long- and short-chipping materials

$\leq 1,5 \times D_N$

$C=2-3$

$\angle 10^\circ$

49HRC
 1600
 -1000
 N/mm²

M
 DIN 13

6HX

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

~DIN 371	Designation	Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N
	TIN	uncoated									
<p>Parallel shank</p>	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

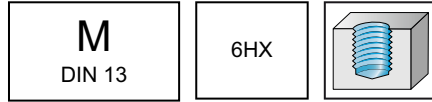
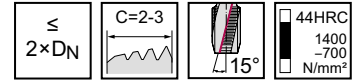
HSS-E PM machine taps

mm

Paradur® Ti



- Recommended with oil
- For long-chipping materials



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

~DIN 371

Parallel shank

Designation TiCN	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	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

Parallel shank

Designation TiCN	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	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	4
	20466-M20	M 20	2,5	140	30	95	16	12	15	4
	20466-M24	M 24	3	160	36	113	18	14,5	17	5
	20466-M30	M 30	3,5	180	42	115	22	18	21	5
	20466-M36	M 36	4	200	48	131	28	22	25	5

HSS-E PM machine taps

mm

Paradur® Ti Plus



- Recommended with emulsion
- For long-chipping materials

≤
2×DN

C=2-3

15°

44HRC
1400
-700
N/mm²

M
DIN 13

6HX

ACN

P	M	K	N	S	H	O
---	---	---	---	---	---	---

~DIN 371	Designation ACN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
Parallel shank	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	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
Parallel shank	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

C1

WALTER SELECT

●● Primary application ● Other application

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

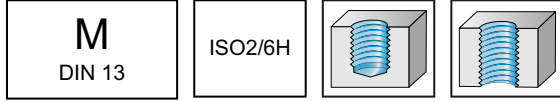
HSS-E PM machine taps

mm

Paradur® FT



- For short-chipping materials



M
DIN 13

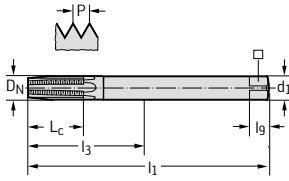
ISO2/6H

$\leq 2 \times D_N$
 $D=3,5-5$
 51 HRC
 1700
 -900
 N/mm²

	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	\square mm	l_2 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



Parallel shank

Without reduced neck after the thread

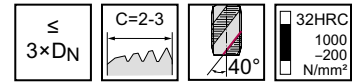
C1

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

HSS-E machine taps

mm

Paradur® Uni



- For long-chipping materials



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

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	\square mm	l_g mm	N
<p>Parallel shank</p>				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	
	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	\square mm	l_g mm	N
<p>Parallel shank</p>				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

mm

Paradur® Uni



- For long-chipping materials

M
DIN 13

ISO3/6G

$\leq 3 \times D_N$

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	\square mm	l_g mm	N
 Parallel shank		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	\square mm	l_g mm	N
 Parallel shank		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

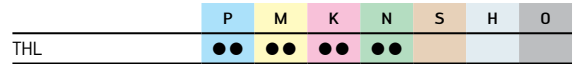
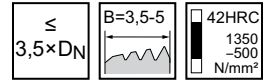
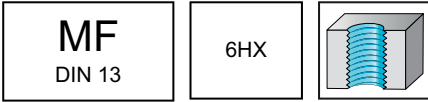
HSS-E PM machine taps

mm

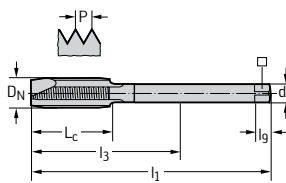
Prototex® Eco Plus



- For long-chipping materials



DIN 374



Parallel shank

Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ 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

WALTER
SELECT

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

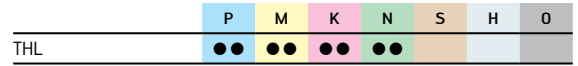
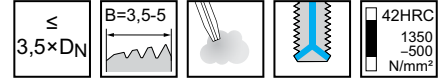
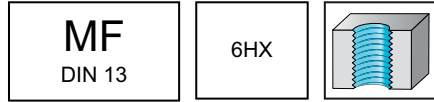
HSS-E PM machine taps

mm

Prototex® Eco Plus



- For long-chipping materials



DIN 374	Designation THL	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 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

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

HSS-E machine taps

TC216 Perform mm



- For long-chipping materials

$\leq 3 \times D_N$

$B=3,5-5$

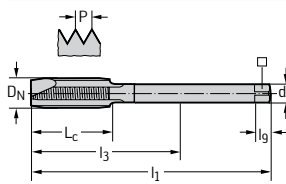
32HRC
 1000-350
 N/mm²

MF
 DIN 13

ISO2/6H

	P	M	K	N	S	H	O
WY80AA	●●	●●	●●	●●			
WY80FC	●●	●●	●●	●●			

DIN 374



Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AA	WY80FC
TC216-M8X1-L0-	MF 8x1	1	90	18	67	6	4,9	8	3	●●	●●
TC216-M10X1-L0-	MF 10x1	1	90	20	67	7	5,5	8	3	●●	●●
TC216-M10X1.25-L0-	MF 10x1.25	1,25	100	20	77	7	5,5	8	3	●●	●●
TC216-M12X1.25-L0-	MF 12x1.25	1,25	100	21	73	9	7	10	4	●●	●●
TC216-M12X1.5-L0-	MF 12x1.5	1,5	100	21	73	9	7	10	4	●●	●●
TC216-M14X1.5-L0-	MF 14x1.5	1,5	100	21	71	11	9	12	4	●●	●●
TC216-M16X1.5-L0-	MF 16x1.5	1,5	100	21	58	12	9	12	4	●●	●●
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

C1

WALTER SELECT

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

HSS-E machine taps

mm

Prototex® Synchronspeed



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

\leq
3×DN

B=3,5-5

44HRC
1400
N/mm²

MF
DIN 13

6HX

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

~DIN 371	Designation	Designation	D _N	P	l ₁	L _c	l ₃	d ₁	□	l ₉	N
	THL	TIN									
 Parallel shank	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

WALTER SELECT

●● Primary application ● Other application

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

HSS-E machine taps

mm

Prototex® X-pert P



- For long-chipping materials

$\leq 3 \times D_N$

$B=3,5-5$

32HRC
 1000
 -200
 N/mm²

MF
DIN 13

ISO2/6H

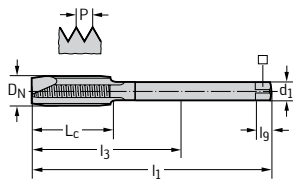
	P	M	K	N	S	H	O
TIN	●●			●			●
uncoated	●●			●			●

DIN 374		Designation TIN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h_9 mm	\square mm	l_9 mm	N
<p>Parallel shank</p>		P21360-M4X0.5	MF 4x0.5	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-M9X1	MF 9x1	1	90	18	67	7	5,5	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
		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	

WALTER SELECT

●● Primary application ● Other application

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

DIN 374


Parallel shank

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	
	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-M36X3	MF 36x3	3	200	39	131	28	22	25	4
	P21360-M38X1.5	MF 38x1.5	1.5	170	28	101	28	22	25	5
	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-M48X3	MF 48x3	3	225	45	122	36	29	32	4
	P21360-M50X1.5	MF 50x1.5	1.5	190	28	87	36	29	32	5

C1

HSS-E machine taps

mm

Prototex® X-pert P



- Reduced number of grooves
- For long-chipping materials

≤
3×DN

B=3,5-5

32HRC
1000-200
N/mm²

MF
DIN 13

ISO2/6H

	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	□ mm	l _g mm	N
<p>Parallel shank</p>	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

WALTER
SELECT

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

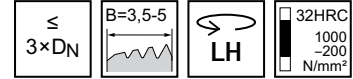
HSS-E machine taps

mm

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	□ mm	l ₉ 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

WALTER SELECT ●● Primary application ● Other application

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

HSS-E machine taps

mm

Prototex® X-pert P



- For long-chipping materials

$\leq 3 \times D_N$

$B=3,5-5$

32HRC
 1000
 -200
 N/mm²

MF
DIN 13

ISO3/6G

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

DIN 374		Designation TIN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N
<p>Parallel shank</p>		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	3
		P2138005-M10X1	P21380-M10X1	MF 10x1	1	90	20	67	7	5,5	8	3
			P21380-M10X1.25	MF 10x1.25	1,25	100	20	77	7	5,5	8	3
		P2138005-M12X1	P21380-M12X1	MF 12x1	1	100	21	73	9	7	10	4
			P21380-M12X1.25	MF 12x1.25	1,25	100	21	73	9	7	10	4
		P2138005-M12X1.5	P21380-M12X1.5	MF 12x1.5	1,5	100	21	73	9	7	10	4
		P2138005-M14X1.5	P21380-M14X1.5	MF 14x1.5	1,5	100	21	71	11	9	12	4
		P2138005-M16X1.5	P21380-M16X1.5	MF 16x1.5	1,5	100	21	58	12	9	12	4
			P21380-M18X1.5	MF 18x1.5	1,5	110	24	66	14	11	14	4
			P21380-M20X1.5	MF 20x1.5	1,5	125	24	80	16	12	15	4
		P21380-M22X1.5	MF 22x1.5	1,5	125	24	78	18	14,5	17	4	
		P21380-M24X1.5	MF 24x1.5	1,5	140	26	93	18	14,5	17	4	

C1

WALTER SELECT

●● Primary application ● Other application

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

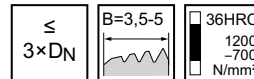
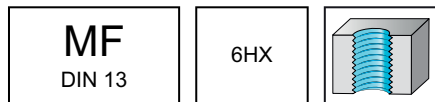
HSS-E machine taps

mm

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	□ mm	l _g mm	N
	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	□ mm	l _g mm	N
	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
	M2126305-M12X1.25	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
	M2126305-M14X1.5	M21263-M14X1	MF 14x1	1	100	21	71	11	9	12	4
		M21263-M14X1.5	MF 14x1.5	1,5	100	21	71	11	9	12	4
	M2126305-M16X1.5	M21263-M16X1	MF 16x1	1	100	21	58	12	9	12	4
		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
	M2126305-M24X1.5	M21263-M24X1.5	MF 24x1.5	1,5	140	26	93	18	14,5	17	4

WALTER SELECT ●● Primary application ● Other application

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

HSS-E machine taps

mm

Prototex® X-pert M



- For long-chipping materials

MF
DIN 13

6GX



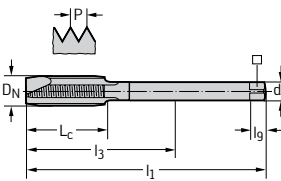
$\leq 3 \times D_N$

$B=3,5-5$

36HRC
1200
-700
N/mm²

	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	□ mm	l ₉ 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

Parallel shank

C1

**WALTER
SELECT**

●● Primary application ● Other application

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

HSS-E PM machine taps

mm

Prototex® TiNi



$\leq 2 \times D_N$

MF
DIN 13

6HX

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

~DIN 371

Designation TiCN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square 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

Parallel shank

DIN 374

Designation TiCN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square 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

Parallel shank

C1

WALTER SELECT

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

HSS-E PM machine taps

mm

Prototex® TiNi Plus



- Recommended with emulsion
- For long-chipping materials

≤
2×DN

B=3,5-5

44HRC
1400
-700
N/mm²

MF
DIN 13

6HX

	P	M	K	N	S	H	O
ACN					●●		

	Designation ACN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ 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

Parallel shank

	Designation ACN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ 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

Parallel shank

**WALTER
SELECT**

●● Primary application ● Other application

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

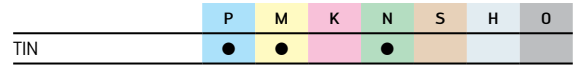
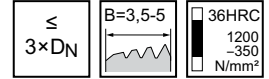
HSS-E PM machine taps

mm

Prototex® Sprint



- For long-chipping materials



DIN 374	Designation TIN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N
	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-M12X1.25	MF 12x1.25	1,25	100	21	67	9	7	10	4
	7126365-M12X1.5	MF 12x1.5	1,5	100	21	66	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

C1

WALTER SELECT ●● Primary application ● Other application

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

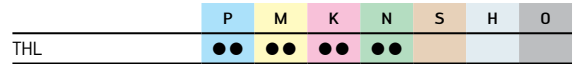
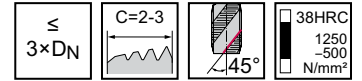
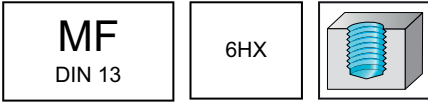
HSS-E PM machine taps

mm

Paradur® Eco Plus



– For long-chipping materials



DIN 374	Designation THL	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 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

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

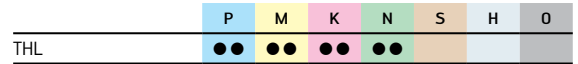
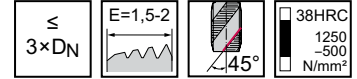
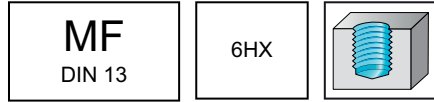
HSS-E PM machine taps

mm

Paradur® Eco Plus



- For long-chipping materials



DIN 374	Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ 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

C1

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

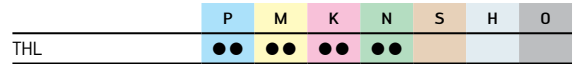
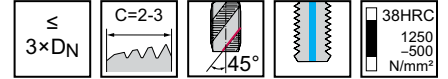
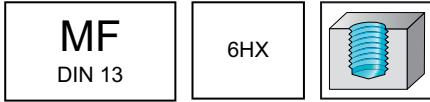
HSS-E PM machine taps

mm

Paradur® Eco Plus



– For long-chipping materials



DIN 374	Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm N	
									mm	N
<p>Parallel shank</p>	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

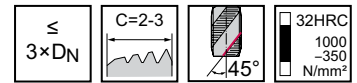
●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

TC115 Perform mm



- For long-chipping materials



	P	M	K	N	S	H	O
WY80AA	●●	●●	●●	●			
WY80FC	●●	●●	●●	●			

DIN 374		Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AA	WY80FC
<p>Parallel shank</p>	TC115-M8X1-L0-	MF 8x1	1	90	12	67	6	4,9	8	3	●●	●●	
	TC115-M10X1-L0-	MF 10x1	1	90	12	67	7	5,5	8	3	●●	●●	
	TC115-M10X1.25-L0-	MF 10x1.25	1,25	100	15	77	7	5,5	8	3	●●	●●	
	TC115-M12X1.25-L0-	MF 12x1.25	1,25	100	13	73	9	7	10	4	●●	●●	
	TC115-M12X1.5-L0-	MF 12x1.5	1,5	100	13	73	9	7	10	4	●●	●●	
	TC115-M14X1.5-L0-	MF 14x1.5	1,5	100	15	71	11	9	12	4	●●	●●	
	TC115-M16X1.5-L0-	MF 16x1.5	1,5	100	15	58	12	9	12	4	●●	●●	
	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

mm

Paradur® Synchrospeed



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

$\leq 2,5 \times D_N$

$C=2-3$

$\angle 40^\circ$

40HRC
1300 N/mm²

MF
DIN 13

6HX

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

~DIN 371		Designation THL	Designation TIN/VAP	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h6 mm	□ mm	l_9 mm	N
<p>Parallel shank</p>	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

WALTER SELECT

●● Primary application ● Other application

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

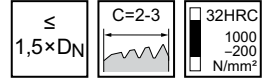
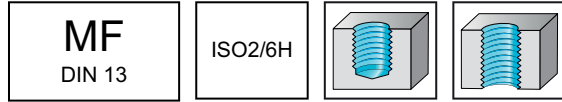
HSS-E machine taps

mm

Paradur® H



- For long- and short-chipping materials



	P	M	K	N	S	H	O
uncoated			●	●●			●

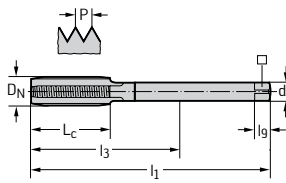
DIN 371	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N
<p>Parallel shank</p>	21311-M2X0.25	MF 2x0.25	0,25	45	6	9	2,8	2,1	5	3
	21311-M2.2X0.25	MF 2.2x0.25	0,25	45	7	12	2,8	2,1	5	3
	21311-M2.5X0.35	MF 2.5x0.35	0,35	50	8	12,5	2,8	2,1	5	3
	21311-M3X0.35	MF 3x0.35	0,35	56	9	18	3,5	2,7	6	3
	21311-M3.5X0.35	MF 3.5x0.35	0,35	56	11	20	4	3	6	3
	21311-M4X0.35	MF 4x0.35	0,35	63	12	21	4,5	3,4	6	3
	21311-M4X0.5	MF 4x0.5	0,5	63	12	21	4,5	3,4	6	3
	21311-M5X0.35	MF 5x0.35	0,35	70	13	25	6	4,9	8	3
	21311-M5X0.5	MF 5x0.5	0,5	70	13	25	6	4,9	8	3
	21311-M6X0.75	MF 6x0.75	0,75	80	15	30	6	4,9	8	3
	21311-M7X0.75	MF 7x0.75	0,75	80	15	30	7	5,5	8	3

C1

WALTER SELECT ●● Primary application ● Other application

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

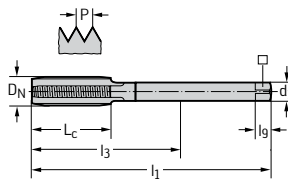
DIN 374



Parallel shank

Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
21361-M4X0.5	MF 4x0.5	0,5	63	12	43	2,8	2,1	5	3
21361-M5X0.5	MF 5x0.5	0,5	70	13	49	3,5	2,7	6	3
21361-M6X0.5	MF 6x0.5	0,5	80	15	59	4,5	3,4	6	3
21361-M6X0.75	MF 6x0.75	0,75	80	15	59	4,5	3,4	6	3
21361-M7X0.5	MF 7x0.5	0,5	80	15	58	5,5	4,3	7	3
21361-M7X0.75	MF 7x0.75	0,75	80	15	58	5,5	4,3	7	3
21361-M8X0.5	MF 8x0.5	0,5	80	15	57	6	4,9	8	3
21361-M8X0.75	MF 8x0.75	0,75	80	15	57	6	4,9	8	3
21361-M8X1	MF 8x1	1	90	18	67	6	4,9	8	3
21361-M9X0.5	MF 9x0.5	0,5	90	15	67	7	5,5	8	3
21361-M9X0.75	MF 9x0.75	0,75	90	15	67	7	5,5	8	3
21361-M9X1	MF 9x1	1	90	18	67	7	5,5	8	3
21361-M10X0.5	MF 10x0.5	0,5	90	20	67	7	5,5	8	3
21361-M10X0.75	MF 10x0.75	0,75	90	20	67	7	5,5	8	3
21361-M10X1	MF 10x1	1	90	20	67	7	5,5	8	3
21361-M10X1.25	MF 10x1.25	1,25	100	20	77	7	5,5	8	3
21361-M11X1	MF 11x1	1	90	20	66	8	6,2	9	3
21361-M12X0.5	MF 12x0.5	0,5	100	21	73	9	7	10	3
21361-M12X0.75	MF 12x0.75	0,75	100	21	73	9	7	10	4
21361-M12X1	MF 12x1	1	100	21	73	9	7	10	4
21361-M12X1.25	MF 12x1.25	1,25	100	21	73	9	7	10	4
21361-M12X1.5	MF 12x1.5	1,5	100	21	73	9	7	10	4
21361-M14X1	MF 14x1	1	100	21	71	11	9	12	4
21361-M14X1.25	MF 14x1.25	1,25	100	21	71	11	9	12	4
21361-M14X1.5	MF 14x1.5	1,5	100	21	71	11	9	12	4
21361-M15X1.5	MF 15x1.5	1,5	100	21	58	12	9	12	4
21361-M16X1	MF 16x1	1	100	21	58	12	9	12	4
21361-M16X1.5	MF 16x1.5	1,5	100	21	58	12	9	12	4
21361-M18X1	MF 18x1	1	110	24	66	14	11	14	4
21361-M18X1.5	MF 18x1.5	1,5	110	24	66	14	11	14	4
21361-M18X2	MF 18x2	2	125	30	81	14	11	14	4
21361-M20X1	MF 20x1	1	125	24	80	16	12	15	4
21361-M20X1.5	MF 20x1.5	1,5	125	24	80	16	12	15	4
21361-M20X2	MF 20x2	2	140	30	95	16	12	15	4
21361-M22X1	MF 22x1	1	125	24	78	18	14,5	17	4

C1

DIN 374


Parallel shank

Designation uncoated	D_N	P mm	l_1 mm	L_C mm	l_3 mm	d_1 h9 mm	□ mm	l_g mm	N
21361-M22X1.5	MF 22x1.5	1,5	125	24	78	18	14,5	17	4
21361-M22X2	MF 22x2	2	140	26	93	18	14,5	17	4
21361-M24X1	MF 24x1	1	140	26	93	18	14,5	17	4
21361-M24X1.5	MF 24x1.5	1,5	140	26	93	18	14,5	17	4
21361-M24X2	MF 24x2	2	140	26	93	18	14,5	17	4
21361-M25X1.5	MF 25x1.5	1,5	140	26	93	18	14,5	17	4
21361-M26X1.5	MF 26x1.5	1,5	140	26	93	18	14,5	17	4
21361-M27X1	MF 27x1	1	140	26	77	20	16	19	4
21361-M27X1.5	MF 27x1.5	1,5	140	26	77	20	16	19	4
21361-M27X2	MF 27x2	2	140	26	77	20	16	19	4
21361-M28X1.5	MF 28x1.5	1,5	140	26	77	20	16	19	4
21361-M28X2	MF 28x2	2	140	26	77	20	16	19	4
21361-M30X1	MF 30x1	1	150	26	85	22	18	21	4
21361-M30X1.5	MF 30x1.5	1,5	150	26	85	22	18	21	4
21361-M30X2	MF 30x2	2	150	26	85	22	18	21	4
21361-M32X1.5	MF 32x1.5	1,5	150	26	85	22	18	21	4
21361-M33X1.5	MF 33x1.5	1,5	160	28	93	25	20	23	4
21361-M33X2	MF 33x2	2	160	28	93	25	20	23	4
21361-M35X1.5	MF 35x1.5	1,5	170	28	101	28	22	25	4
21361-M36X1.5	MF 36x1.5	1,5	170	28	101	28	22	25	4
21361-M36X2	MF 36x2	2	170	28	101	28	22	25	4
21361-M36X3	MF 36x3	3	200	39	131	28	22	25	4
21361-M38X1.5	MF 38x1.5	1,5	170	28	101	28	22	25	6
21361-M39X1.5	MF 39x1.5	1,5	170	28	72	32	24	27	6
21361-M39X3	MF 39x3	3	200	42	102	32	24	27	4
21361-M40X1.5	MF 40x1.5	1,5	170	28	72	32	24	27	6
21361-M40X2	MF 40x2	2	170	28	72	32	24	27	4
21361-M42X1.5	MF 42x1.5	1,5	170	28	72	32	24	27	6
21361-M42X2	MF 42x2	2	170	28	72	32	24	27	4
21361-M42X3	MF 42x3	3	200	42	102	32	24	27	4
21361-M45X1.5	MF 45x1.5	1,5	180	28	77	36	29	32	6
21361-M45X2	MF 45x2	2	180	30	77	36	29	32	6
21361-M45X3	MF 45x3	3	200	42	97	36	29	32	4
21361-M48X1.5	MF 48x1.5	1,5	190	28	87	36	29	32	6
21361-M48X2	MF 48x2	2	190	30	87	36	29	32	6
21361-M48X3	MF 48x3	3	225	45	122	36	29	32	4
21361-M50X1.5	MF 50x1.5	1,5	190	28	87	36	29	32	6
21361-M52X1.5	MF 52x1.5	1,5	190	29	60	40	32	35	6
21361-M52X2	MF 52x2	2	190	32	60	40	32	35	6
21361-M52X3	MF 52x3	3	225	45	95	40	32	35	6

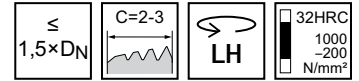
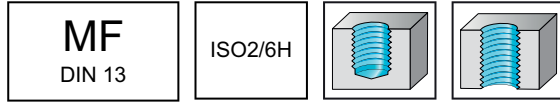
HSS-E machine taps

mm

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	□ mm	l _g mm	N
<p>Parallel shank</p>	21368-M4X0.5	MF 4x0.5	0,5	63	12	43	2,8	2,1	5	3
	21368-M5X0.5	MF 5x0.5	0,5	70	13	49	3,5	2,7	6	3
	21368-M6X0.5	MF 6x0.5	0,5	80	15	59	4,5	3,4	6	3
	21368-M6X0.75	MF 6x0.75	0,75	80	15	59	4,5	3,4	6	3
	21368-M8X0.5	MF 8x0.5	0,5	80	15	57	6	4,9	8	3
	21368-M8X0.75	MF 8x0.75	0,75	80	15	57	6	4,9	8	3
	21368-M8X1	MF 8x1	1	90	18	67	6	4,9	8	3
	21368-M10X0.75	MF 10x0.75	0,75	90	20	67	7	5,5	8	3
	21368-M10X1	MF 10x1	1	90	20	67	7	5,5	8	3
	21368-M12X1	MF 12x1	1	100	21	73	9	7	10	4
	21368-M12X1.5	MF 12x1.5	1,5	100	21	73	9	7	10	4
	21368-M14X1	MF 14x1	1	100	21	71	11	9	12	4
	21368-M14X1.5	MF 14x1.5	1,5	100	21	71	11	9	12	4
	21368-M16X1	MF 16x1	1	100	21	58	12	9	12	4
	21368-M16X1.5	MF 16x1.5	1,5	100	21	58	12	9	12	4
	21368-M18X1.5	MF 18x1.5	1,5	110	24	66	14	11	14	4
21368-M20X1.5	MF 20x1.5	1,5	125	24	80	16	12	15	4	
21368-M22X1.5	MF 22x1.5	1,5	125	24	78	18	14,5	17	4	
21368-M24X1.5	MF 24x1.5	1,5	140	26	93	18	14,5	17	4	

C1

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

HSS-E machine taps

mm

Paradur® HN



- For short-chipping materials

$\leq 1,5 \times D_N$
 $E=1,5-2$
 36HRC
 1200-400 N/mm²

MF
 DIN 13
 6HX

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

DIN 374

Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 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

Parallel shank

C1

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

HSS-E machine taps

TC130 Supreme mm



- WY80AA: Good Performance
- WY80EH: Excellent Performance

$\leq 3,5 \times D_N$

$C=2-3$

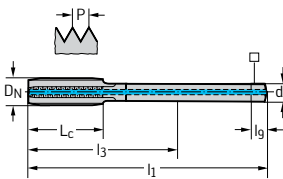
44HRC
1400-700 N/mm²

MF
DIN 13

6HX

	P	M	K	N	S	H	O
WY80AA	●●		●●	●			●
WY80EH	●●		●●	●			●

DIN 374



Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AA	WY80EH
TC130-M10X1-L1-	MF 10x1	1	90	20	67	7	5,5	8	3	☼	☼
TC130-M12X1.5-L1-	MF 12x1.5	1,5	100	21	73	9	7	10	3	☼	☼
TC130-M14X1.5-L1-	MF 14x1.5	1,5	100	21	71	11	9	12	3	☼	☼
TC130-M16X1.5-L1-	MF 16x1.5	1,5	100	21	58	12	9	12	3	☼	☼
TC130-M18X1.5-L1-	MF 18x1.5	1,5	110	24	66	14	11	14	3	☼	☼
TC130-M20X1.5-L1-	MF 20x1.5	1,5	125	24	80	16	12	15	3	☼	☼
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

WALTER SELECT

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

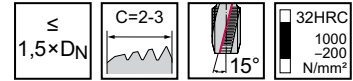
HSS-E machine taps

mm

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	\square mm	l_9 mm	N
<p>Parallel shank</p>	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_9 dimensions in accordance with DIN 10

C1

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	\square mm	l_9 mm	N
<p>Parallel shank</p>		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
			21460-M10X1.25	MF 10x1.25	1,25	100	15	77	7	5,5	8	3
	2146006-M12X1	2146005-M12X1	21460-M12X1	MF 12x1	1	100	13	73	9	7	10	3
			21460-M12X1.25	MF 12x1.25	1,25	100	13	73	9	7	10	3
	2146006-M12X1.5	2146005-M12X1.5	21460-M12X1.5	MF 12x1.5	1,5	100	21	73	9	7	10	3
			21460-M14X1	MF 14x1	1	100	15	71	11	9	12	4
			21460-M14X1.25	MF 14x1.25	1,25	100	15	71	11	9	12	4
	2146006-M14X1.5	2146005-M14X1.5	21460-M14X1.5	MF 14x1.5	1,5	100	21	71	11	9	12	4
			21460-M16X1	MF 16x1	1	100	15	58	12	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
			21460-M20X2	MF 20x2	2	140	30	95	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-M24X2	MF 24x2	2	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-M27X2	MF 27x2	2	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-M30X2	MF 30x2	2	150	26	85	22	18	21	4	
		21460-M36X1.5	MF 36x1.5	1,5	170	28	101	28	22	25	4	

l_9 dimensions in accordance with DIN 10

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

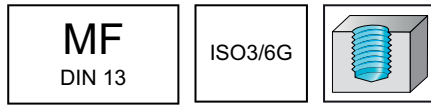
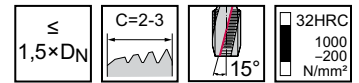
HSS-E machine taps

mm

Paradur® N



- For long-chipping materials



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

DIN 374		Designation TIN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	l_2 mm	l_9 mm	N
<p>Parallel shank</p>		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
		2148005-M10X1	21480-M10X1	MF 10x1	1	90	12	67	7	5,5	8	3
		2148005-M12X1	21480-M12X1	MF 12x1	1	100	13	73	9	7	10	3
		2148005-M12X1.5	21480-M12X1.5	MF 12x1.5	1,5	100	21	73	9	7	10	3
		2148005-M14X1.5	21480-M14X1.5	MF 14x1.5	1,5	100	21	71	11	9	12	4
		2148005-M16X1.5	21480-M16X1.5	MF 16x1.5	1,5	100	21	58	12	9	12	4
		21480-M18X1.5	MF 18x1.5	1,5	110	24	66	14	11	14	4	
		21480-M20X1.5	MF 20x1.5	1,5	125	24	80	16	12	15	4	
		21480-M22X1.5	MF 22x1.5	1,5	125	24	78	18	14,5	17	4	

C1

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

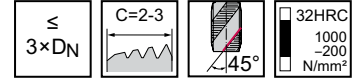
HSS-E machine taps

mm

Paradur® X-pert P



- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●			●			●

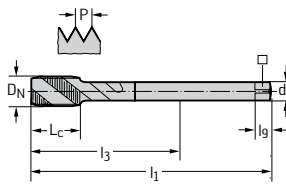
DIN 371	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	P21519-M2.5X0.35	MF 2.5x0.35	0,35	50	4	12,5	2,8	2,1	5	3
	P21519-M3X0.25	MF 3x0.25	0,25	56	6	18	3,5	2,7	6	3
	P21519-M3X0.35	MF 3x0.35	0,35	56	6	18	3,5	2,7	6	3
	P21519-M4X0.35	MF 4x0.35	0,35	63	7	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

WALTER SELECT ●● Primary application ● Other application

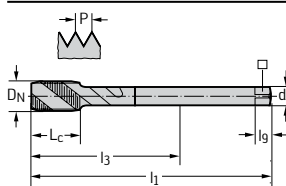
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

DIN 374



Parallel shank

Designation TIN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N
	P21569-M8X0.75	MF 8x0.75	0,75	80	10	57	6	4,9	8	3
P2156905-M8X1	P21569-M8X1	MF 8x1	1	90	12	67	6	4,9	8	3
	P21569-M9X1	MF 9x1	1	90	13	67	7	5,5	8	3
	P21569-M10X0.75	MF 10x0.75	0,75	90	12	67	7	5,5	8	3
P2156905-M10X1	P21569-M10X1	MF 10x1	1	90	12	67	7	5,5	8	3
P2156905-M10X1.25	P21569-M10X1.25	MF 10x1.25	1,25	100	15	77	7	5,5	8	3
P2156905-M12X1	P21569-M12X1	MF 12x1	1	100	13	73	9	7	10	4
P2156905-M12X1.25	P21569-M12X1.25	MF 12x1.25	1,25	100	13	73	9	7	10	4
P2156905-M12X1.5	P21569-M12X1.5	MF 12x1.5	1,5	100	13	73	9	7	10	4
	P21569-M14X1	MF 14x1	1	100	15	71	11	9	12	4
	P21569-M14X1.25	MF 14x1.25	1,25	100	15	71	11	9	12	4
P2156905-M14X1.5	P21569-M14X1.5	MF 14x1.5	1,5	100	15	71	11	9	12	4
	P21569-M16X1	MF 16x1	1	100	15	58	12	9	12	4
P2156905-M16X1.5	P21569-M16X1.5	MF 16x1.5	1,5	100	15	58	12	9	12	4
	P21569-M18X1	MF 18x1	1	110	17	66	14	11	14	4
P2156905-M18X1.5	P21569-M18X1.5	MF 18x1.5	1,5	110	17	66	14	11	14	4
	P21569-M20X1	MF 20x1	1	125	17	80	16	12	15	4
P2156905-M20X1.5	P21569-M20X1.5	MF 20x1.5	1,5	125	17	80	16	12	15	4
	P21569-M20X2	MF 20x2	2	140	25	95	16	12	15	4
	P21569-M22X1	MF 22x1	1	125	18	78	18	14,5	17	4
P2156905-M22X1.5	P21569-M22X1.5	MF 22x1.5	1,5	125	18	78	18	14,5	17	4
	P21569-M22X2	MF 22x2	2	140	20	93	18	14,5	17	4
	P21569-M24X1	MF 24x1	1	140	20	93	18	14,5	17	5
	P21569-M24X1.5	MF 24x1.5	1,5	140	20	93	18	14,5	17	5
	P21569-M24X2	MF 24x2	2	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-M27X2	MF 27x2	2	140	20	77	20	16	19	5
	P21569-M30X1.5	MF 30x1.5	1,5	150	20	85	22	18	21	5
	P21569-M30X2	MF 30x2	2	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-M33X2	MF 33x2	2	160	22	93	25	20	23	5
	P21569-M36X1.5	MF 36x1.5	1,5	170	22	101	28	22	25	5
	P21569-M36X2	MF 36x2	2	170	22	101	28	22	25	5
	P21569-M36X3	MF 36x3	3	200	30	131	28	22	25	5
	P21569-M38X1.5	MF 38x1.5	1,5	170	22	101	28	22	25	5
	P21569-M39X2	MF 39x2	2	170	22	72	32	24	27	5
	P21569-M39X3	MF 39x3	3	200	33	102	32	24	27	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-M42X2	MF 42x2	2	170	22	72	32	24	27	6
	P21569-M42X3	MF 42x3	3	200	33	102	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-M48X2	MF 48x2	2	190	24	87	36	29	32	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



Parallel shank

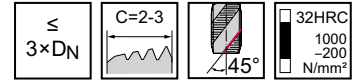
HSS-E machine taps

mm

Paradur® X-pert P



- For long-chipping materials



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

DIN 374	Designation	Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N
	TIN	uncoated									
<p>Parallel shank</p>	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

WALTER SELECT ●● Primary application ● Other application

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

HSS-E machine taps

mm

Paradur® Short Chip HT



- No problems working with steel materials: No bird nesting
- Reduced helix angle and uncoated surface in the chamfer section

$\leq 3,5 \times D_N$

$C=2-3$

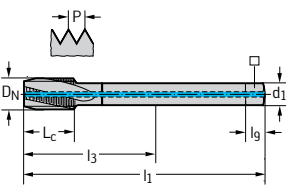
38HRC
1250
-800
N/mm ²

MF
DIN 13

6HX

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

DIN 376



Designation THL	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	l_g mm	l_9 mm	N
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

Parallel shank

21460TR: Uncoated rake

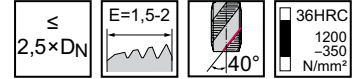
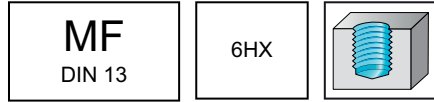
HSS-E machine taps

mm

Paradur® STE



- 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	□ mm	l ₉ mm	N
<p>Parallel shank</p>	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

C1

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

≤
3×DN

C=2-3

50°

36HRC
1200
-350
N/mm²

MF
DIN 13

6HX

	P	M	K	N	S	H	O
WW60RB	●	●●					

DIN 374	Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WW60RB
<p>Parallel shank</p>	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-M10X1.25-L0-	MF 10x1.25	1,25	100	15	77	7	5,5	8	3	☼
	TC142-M12X1-L0-	MF 12x1	1	100	13	73	9	7	10	4	☼
	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

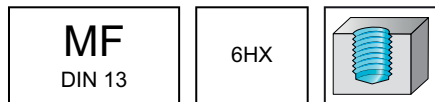
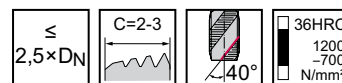
HSS-E machine taps

mm

Paradur® X-pert M



- For long-chipping materials



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

DIN 371	Designation	Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N
	TIN	VAP									
<p>Parallel shank</p>	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

C1

DIN 374	Designation	Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N
	TIN	VAP									
<p>Parallel shank</p>	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-M8X1	M21563-M8X1	MF 8x1	1	90	12	67	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-M10X1	M21563-M10X1	MF 10x1	1	90	12	67	7	5,5	8	3
	M2156305-M10X1.25	M21563-M10X1.25	MF 10x1.25	1,25	100	15	77	7	5,5	8	3
	M2156305-M12X1	M21563-M12X1	MF 12x1	1	100	13	73	9	7	10	4
	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
		M21563-M14X1	MF 14x1	1	100	15	71	11	9	12	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-M20X2	MF 20x2	2	140	25	95	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-M24X2	MF 24x2	2	140	20	93	18	14,5	17	5
		M21563-M27X1.5	MF 27x1.5	1,5	140	20	77	20	16	19	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	

WALTER SELECT ●● Primary application ● Other application

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

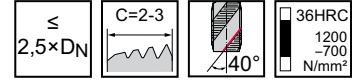
HSS-E machine taps

mm

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	□ mm	l_9 mm	
									N	N
<p>Parallel shank</p>	M2158305-M8X1	MF 8x1	1	90	12	67	6	4,9	8	3
	M2158305-M10X1	MF 10x1	1	90	12	67	7	5,5	8	3
	M2158305-M12X1	MF 12x1	1	100	13	73	9	7	10	4
	M2158305-M12X1.5	MF 12x1.5	1,5	100	13	73	9	7	10	4
	M2158305-M14X1	MF 14x1	1	100	15	71	11	9	12	4
	M2158305-M14X1.5	MF 14x1.5	1,5	100	15	71	11	9	12	4
	M2158305-M16X1	MF 16x1	1	100	15	58	12	9	12	4
	M2158305-M16X1.5	MF 16x1.5	1,5	100	15	58	12	9	12	4

C1

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

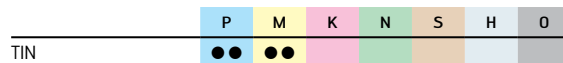
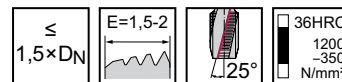
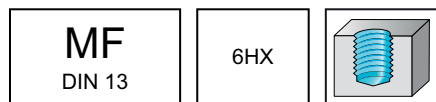
HSS-E machine taps

mm

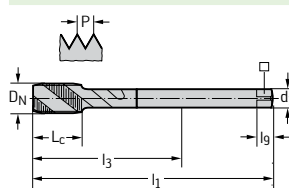
Paradur Inox® 25



- For long-chipping materials



DIN 374



Parallel shank

Designation TIN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	l_9 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

mm

Paradur® Eco CI



- For short-chipping materials
- Nitrided

$\leq 3 \times D_N$

$C=2-3$

32HRC
 1000-100
 N/mm²

MF
DIN 13

6HX

	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 h_9 mm	\square mm	l_9 mm	N
 Parallel shank		E2136406-M6X0.75	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-M10X1.25	E2136406-M10X1.25	MF 10x1.25	1,25	100	20	77	7	5,5	8	4
		E21364-M12X1	E2136406-M12X1	MF 12x1	1	100	21	73	9	7	10	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

C1

WALTER SELECT

●● Primary application ● Other application

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

HSS-E PM machine taps

mm

Paradur® Eco CI

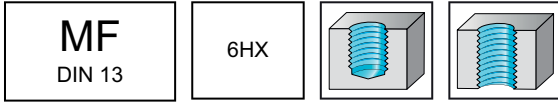


- For short-chipping materials
- Nitrided

≤
3×DN

E=1,5-2

32HRC
1000-100
N/mm²



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	□ mm	l ₉ mm	N
<p>Parallel shank</p>	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

**WALTER
SELECT**

●● Primary application ● Other application

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

HSS-E PM machine taps

mm

Paradur® Eco CI



- For short-chipping materials
- Nitrided

≤
3×DN

C=2-3

32HRC
1000
-100
N/mm²

MF
DIN 13

6HX

TICN

P	M	K	N	S	H	O
		●●	●●			●●

DIN 374	Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
<p>Parallel shank</p>	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

WALTER SELECT

●● Primary application ● Other application

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

HSS-E machine taps

mm

Paradur® X-pert N



- For long-chipping materials

MF
DIN 13

ISO2/6H

\leq
3×DN

C=2-3

35°

14HRC
700
-200
N/mm²

	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	□ mm	l ₉ mm	N
 Parallel shank		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-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	MF 16x1	1	100	15	58	12	9	12	4
		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

**WALTER
SELECT**

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

HSS-E PM machine taps

mm

Paradur® Ni 10



- For long- and short-chipping materials

MF
DIN 13

6HX

$\leq 1,5 \times D_N$

$C=2-3$

$\angle 10^\circ$

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	□ mm	l ₉ mm	N
<p>Parallel shank</p>	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

C1

WALTER SELECT

●● Primary application ● Other application

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

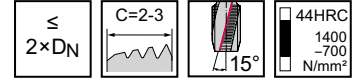
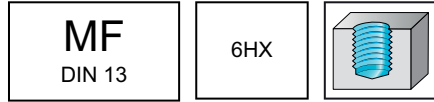
HSS-E PM machine taps

mm

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	□ mm	l _g mm	N
<p>Parallel shank</p>	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

DIN 374	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	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-M10X1.25	MF 10x1.25	1,25	100	20	77	7	5,5	8	3
	21466-M12X1	MF 12x1	1	100	16	73	9	7	10	4
	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	MF 14x1	1	100	16	71	11	9	12	4
	21466-M14X1.5	MF 14x1.5	1,5	100	21	71	11	9	12	4
	21466-M16X1	MF 16x1	1	100	18		58	12	9	12

C1

WALTER SELECT ●● Primary application ● Other application

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

HSS-E PM machine taps

mm

Paradur® Ti Plus



- Recommended with emulsion
- For long-chipping materials

≤
2×DN

C=2-3

15°

44HRC
1400
-700
N/mm²

MF
DIN 13

6HX

	P	M	K	N	S	H	O
ACN					●●		

	Designation ACN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	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

	Designation ACN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	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

WALTER SELECT

●● Primary application ● Other application

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

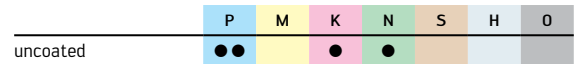
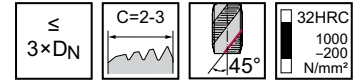
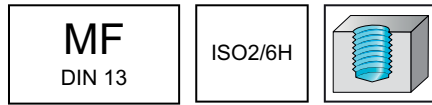
HSS-E machine taps

mm

Paradur® Uni



– For long-chipping materials



DIN 374	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ 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-M10X1.25	MF 10x1.25	1,25	100	15	77	7	5,5	8	3
	7156770-M12X1	MF 12x1	1	100	13	73	9	7	10	4
	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-M27X2	MF 27x2	2	140	20	77	20	16	19	5
	7156770-M30X1.5	MF 30x1.5	1,5	150	20	85	22	18	21	5
	7156770-M30X2	MF 30x2	2	150	20	85	22	18	21	5

C1

WALTER SELECT

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

HSS-E PM machine taps

mm

Prototex® Eco Plus



- For long-chipping materials

UNC
ASME B1.1

2B

$\leq 3,5 \times D_N$

$B=3,5-5$

42HRC
1350-500
N/mm²

	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			

DIN 2184-1		Designation	D_N -P	D_N mm	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N
	THL	EP2221302-UNC2	UNC #2-56	2,184		45	7	12	2,8	2,1	5	3
		EP2221302-UNC4	UNC #4-40	2,845		56	9	18	3,5	2,7	6	3
		EP2221302-UNC6	UNC #6-32	3,505		56	11	20	4	3	6	3
		EP2221302-UNC8	UNC #8-32	4,166		63	12	21	4,5	3,4	6	3
		EP2221302-UNC10	UNC #10-24	4,826		70	13	25	6	4,9	8	3
		EP2221302-UNC1/4	UNC 1/4-20	6,35		80	15	30	7	5,5	8	3

Parallel shank

DIN 2184-1		Designation	D_N -P	D_N mm	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N
	THL	EP2226302-UNC5/16	UNC 5/16-18	7,938		90	18	67	6	4,9	8	3
		EP2226302-UNC3/8	UNC 3/8-16	9,525		100	20	77	7	5,5	8	3
		EP2226302-UNC1/2	UNC 1/2-13	12,7		110	23	83	9	7	10	4
		EP2226302-UNC5/8	UNC 5/8-11	15,875		110	25	68	12	9	12	4

Parallel shank

C1

WALTER SELECT

●● Primary application ● Other application

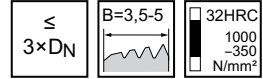
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

TC216 Perform mm

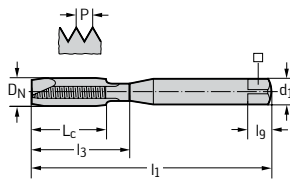


- For long-chipping materials



	P	M	K	N	S	H	O
WY80AA	●●	●●	●●	●●			

DIN 371



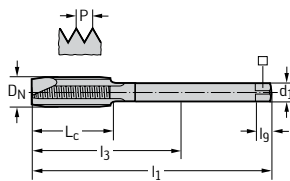
Parallel shank

Designation	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AA
TC216-UNC6-C0-	UNC #6-32	3,505	56	11	20	4	3	6	3	☹
TC216-UNC8-C0-	UNC #8-32	4,166	63	12	21	4,5	3,4	6	3	☹
TC216-UNC10-C0-	UNC #10-24	4,826	70	13	25	6	4,9	8	3	☹
TC216-UNC1/4-C0-	UNC 1/4-20	6,35	80	15	30	7	5,5	8	3	☹
TC216-UNC5/16-C0-	UNC 5/16-18	7,938	90	18	35	8	6,2	9	3	☹
TC216-UNC3/8-C0-	UNC 3/8-16	9,525	100	20	39	10	8	11	3	☹

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

C1

DIN 376



Parallel shank

Designation	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AA
TC216-UNC1/2-L0-	UNC 1/2-13	12,7	110	23	83	9	7	10	4	☹
TC216-UNC5/8-L0-	UNC 5/8-11	15,875	110	25	68	12	9	12	4	☹
TC216-UNC3/4-L0-	UNC 3/4-10	19,05	125	30	81	14	11	14	4	☹

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

HSS-E machine taps

mm

Prototex® X-pert P



– For long-chipping materials

UNC
ASME B1.1

3B

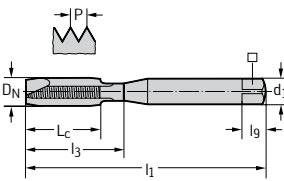
$\leq 3 \times D_N$

$B=3,5-5$

32HRC
1000
-200
N/mm²

		P	M	K	N	S	H	O
uncoated		●●			●			●

DIN 2184-1-B



Parallel shank

Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
P22200-UNC2	UNC #2-56	2,184	45	7	12	2,8	2,1	5	2
P22200-UNC4	UNC #4-40	2,845	56	9	18	3,5	2,7	6	2
P22200-UNC6	UNC #6-32	3,505	56	11	20	4	3	6	2
P22200-UNC8	UNC #8-32	4,166	63	12	21	4,5	3,4	6	2

C1

**WALTER
SELECT**

●● Primary application ● Other application

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

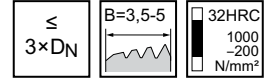
HSS-E machine taps

mm

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	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_g mm	N
<p>Parallel shank</p>	P22210-UNC2	UNC #2-56	2,184	45	7	12	2,8	2,1	5	2
	P22210-UNC4	UNC #4-40	2,845	56	9	18	3,5	2,7	6	2
	P22210-UNC6	UNC #6-32	3,505	56	11	20	4	3	6	2
	P22210-UNC8	UNC #8-32	4,166	63	12	21	4,5	3,4	6	2

C1

WALTER SELECT ●● Primary application ● Other application

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

HSS-E machine taps

mm

Prototex® X-pert P



- For long-chipping materials

$\leq 3 \times D_N$

$B=3,5-5$

32HRC
 1000-200
 N/mm²

UNC
 ASME B1.1

2B

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

DIN 2184-1	Designation TIN	Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
		P22310-UNC2	UNC #2-56	2,184	45	7	12	2,8	2,1	5	3
		P22310-UNC4	UNC #4-40	2,845	56	9	18	3,5	2,7	6	3
		P22310-UNC5	UNC #5-40	3,175	56	10	18	3,5	2,7	6	3
	P2231005-UNC6	P22310-UNC6	UNC #6-32	3,505	56	11	20	4	3	6	3
		P22310-UNC8	UNC #8-32	4,166	63	12	21	4,5	3,4	6	3
		P22310-UNC10	UNC #10-24	4,826	70	13	25	6	4,9	8	3
		P22310-UNC12	UNC #12-24	5,486	80	15	30	6	4,9	8	3
		P22310-UNC1/4	UNC 1/4-20	6,35	80	15	30	7	5,5	8	3
		P22310-UNC5/16	UNC 5/16-18	7,938	90	18	35	8	6,2	9	3
		P22310-UNC3/8	UNC 3/8-16	9,525	100	20	39	10	8	11	3

DIN 2184-1	Designation TIN	Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
		P22360-UNC7/16	UNC 7/16-14	11,113	100	20	76	8	6,2	9	3
	P2236005-UNC1/2	P22360-UNC1/2	UNC 1/2-13	12,7	110	23	83	9	7	10	3
		P22360-UNC9/16	UNC 9/16-12	14,288	110	25	81	11	9	12	3
	P2236005-UNC5/8	P22360-UNC5/8	UNC 5/8-11	15,875	110	25	68	12	9	12	3
	P2236005-UNC3/4	P22360-UNC3/4	UNC 3/4-10	19,05	125	30	81	14	11	14	3
		P22360-UNC7/8	UNC 7/8-9	22,225	140	30	93	18	14,5	17	3
		P22360-UNC1	UNC 1"-8	25,4	160	36	113	18	14,5	17	3
		P22360-UNC1.1/4	UNC 1.1/4-7	31,75	180	42	115	22	18	21	4
		P22360-UNC1.1/8	UNC 1.1/8-7	28,575	180	42	115	22	18	21	4
		P22360-UNC1.1/2	UNC 1.1/2-6	38,1	200	48	131	28	22	25	4

WALTER SELECT

●● Primary application ● Other application

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

machining conditions

HSS-E machine taps

mm

Prototex® X-pert M

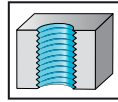


- For long-chipping materials

$\leq 3 \times D_N$

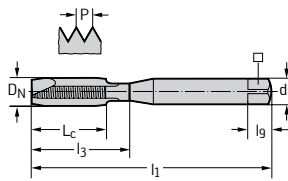
UNC
ASME B1.1

2B



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

DIN 2184-1

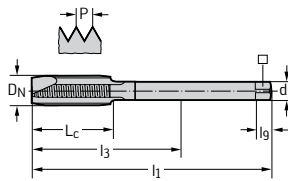


Parallel shank

Designation TIN	Designation VAP	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
M2221305-UNC2	M22213-UNC2	UNC #2-56	2,184	45	7	12	2,8	2,1	5	2
M2221305-UNC3	M22213-UNC3	UNC #3-48	2,515	50	8	12,5	2,8	2,1	5	2
M2221305-UNC4	M22213-UNC4	UNC #4-40	2,845	56	9	18	3,5	2,7	6	2
M2221305-UNC5	M22213-UNC5	UNC #5-40	3,175	56	10	18	3,5	2,7	6	2
M2221305-UNC6	M22213-UNC6	UNC #6-32	3,505	56	11	20	4	3	6	2
M2221305-UNC8	M22213-UNC8	UNC #8-32	4,166	63	12	21	4,5	3,4	6	3
M2221305-UNC10	M22213-UNC10	UNC #10-24	4,826	70	13	25	6	4,9	8	3
	M22213-UNC12	UNC #12-24	5,486	80	15	30	6	4,9	8	3
M2221305-UNC1/4	M22213-UNC1/4	UNC 1/4-20	6,35	80	15	30	7	5,5	8	3

C1

DIN 2184-1



Parallel shank

Designation TIN	Designation VAP	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	M22263-UNC5/16	UNC 5/16-18	7,938	90	18	67	6	4,9	8	3
M2226305-UNC3/8	M22263-UNC3/8	UNC 3/8-16	9,525	100	20	77	7	5,5	8	3
	M22263-UNC7/16	UNC 7/16-14	11,113	100	20	76	8	6,2	9	3
M2226305-UNC1/2	M22263-UNC1/2	UNC 1/2-13	12,7	110	23	83	9	7	10	4
	M22263-UNC9/16	UNC 9/16-12	14,288	110	25	81	11	9	12	4
	M22263-UNC5/8	UNC 5/8-11	15,875	110	25	68	12	9	12	4
	M22263-UNC3/4	UNC 3/4-10	19,05	125	30	81	14	11	14	4
	M22263-UNC7/8	UNC 7/8-9	22,225	140	30	93	18	14,5	17	4
	M22263-UNC1	UNC 1"-8	25,4	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

mm

Prototex® TiNi



$\leq 2 \times D_N$

$B=3,5-5$

44HRC
1400-700 N/mm²

UNC
ASME B1.1

3B

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

~DIN 2184-1	Designation	Designation	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
	TICN	uncoated									
<p>Parallel shank</p>	2220706-UNC2	22207-UNC2	UNC #2-56	2,184	45	9	9	2,8	2,1	5	2
		22207-UNC4	UNC #4-40	2,845	56	10	10	3,5	2,7	6	2
		22207-UNC5	UNC #5-40	3,175	56	10	10	3,5	2,7	6	2
	2220706-UNC6	22207-UNC6	UNC #6-32	3,505	56	12	12	4	3	6	3
	2220706-UNC8	22207-UNC8	UNC #8-32	4,166	63	13	13	4,5	3,4	6	3
	2220706-UNC10	22207-UNC10	UNC #10-24	4,826	70	16	16	6	4,9	8	3
	2220706-UNC1/4	22207-UNC1/4	UNC 1/4-20	6,35	80	15	25	7	5,5	8	3
	2220706-UNC5/16	22207-UNC5/16	UNC 5/16-18	7,938	90	18	29,5	8	6,2	9	3
	2220706-UNC3/8	22207-UNC3/8	UNC 3/8-16	9,525	100	20	33,5	10	8	11	3

≤ UNC 10: Without reduced neck after the thread

DIN 2184-1	Designation	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
	uncoated									
<p>Parallel shank</p>	22257-UNC7/16	UNC 7/16-14	11,113	100	20	76	8	6,2	9	4
	22257-UNC1/2	UNC 1/2-13	12,7	110	23	83	9	7	10	4
	22257-UNC5/8	UNC 5/8-11	15,875	110	25	68	12	9	12	4
	22257-UNC3/4	UNC 3/4-10	19,05	125	30	81	14	11	14	4

WALTER SELECT

●● Primary application

● Other application

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

HSS-E PM machine taps

mm

Prototex® TiNi



$\leq 2 \times D_N$

UNC
ASME B1.1

2B

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

~DIN 2184-1

Designation TiCN	Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
2221706-UNC2	22217-UNC2	UNC #2-56	2,184	45	9	9	2,8	2,1	5	2
2221706-UNC4	22217-UNC4	UNC #4-40	2,845	56	10	10	3,5	2,7	6	2
2221706-UNC5	22217-UNC5	UNC #5-40	3,175	56	10	10	3,5	2,7	6	2
2221706-UNC6	22217-UNC6	UNC #6-32	3,505	56	12	12	4	3	6	3
2221706-UNC8	22217-UNC8	UNC #8-32	4,166	63	13	13	4,5	3,4	6	3
2221706-UNC10	22217-UNC10	UNC #10-24	4,826	70	16	16	6	4,9	8	3
2221706-UNC1/4	22217-UNC1/4	UNC 1/4-20	6,35	80	15	25	7	5,5	8	3
2221706-UNC5/16	22217-UNC5/16	UNC 5/16-18	7,938	90	18	29,5	8	6,2	9	3
2221706-UNC3/8	22217-UNC3/8	UNC 3/8-16	9,525	100	20	33,5	10	8	11	3

Parallel shank

≤ UNC 10: Without reduced neck after the thread

DIN 2184-1

Designation TiCN	Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
2226706-UNC7/16	22267-UNC7/16	UNC 7/16-14	11,113	100	20	76	8	6,2	9	4
2226706-UNC1/2	22267-UNC1/2	UNC 1/2-13	12,7	110	23	83	9	7	10	4
2226706-UNC9/16	22267-UNC9/16	UNC 9/16-12	14,288	110	25	81	11	9	12	4
2226706-UNC5/8	22267-UNC5/8	UNC 5/8-11	15,875	110	25	68	12	9	12	4
2226706-UNC3/4	22267-UNC3/4	UNC 3/4-10	19,05	125	30	81	14	11	14	4

Parallel shank

WALTER
SELECT

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

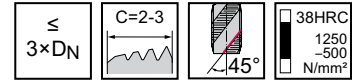
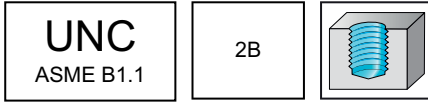
HSS-E PM machine taps

mm

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	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>		EP2251302-UNC2	UNC #2-56	2,184	45	4	8,4	2,8	2,1	5	3
		EP2251302-UNC4	UNC #4-40	2,845	56	6	11	3,5	2,7	6	3
		EP2251302-UNC6	UNC #6-32	3,505	56	6,5	13,7	4	3	6	3
		EP2251302-UNC8	UNC #8-32	4,166	63	7	17,8	4,5	3,4	6	3
		EP2251302-UNC10	UNC #10-24	4,826	70	8	20,7	6	4,9	8	3
		EP2251302-UNC1/4	UNC 1/4-20	6,35	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	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>		EP2256302-UNC5/16	UNC 5/16-18	7,938	90	12	67	6	4,9	8	3
		EP2256302-UNC3/8	UNC 3/8-16	9,525	100	15	77	7	5,5	8	3
		EP2256302-UNC1/2	UNC 1/2-13	12,7	110	18	83	9	7	10	4
		EP2256302-UNC5/8	UNC 5/8-11	15,875	110	20	68	12	9	12	4

C1

WALTER SELECT ●● Primary application ● Other application

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

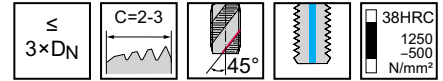
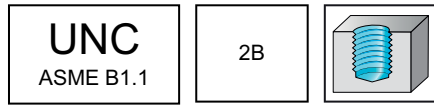
HSS-E PM machine taps

mm

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	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N

DIN 2184-1	Designation THL	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	EP2256312-UNC3/8	UNC 3/8-16	9,525	100	15	77	7	5,5	8	3
	EP2256312-UNC1/2	UNC 1/2-13	12,7	110	18	83	9	7	10	4
	EP2256312-UNC5/8	UNC 5/8-11	15,875	110	20	68	12	9	12	4
	EP2256312-UNC3/4	UNC 3/4-10	19,05	125	25	81	14	11	14	4

C1

WALTER SELECT ●● Primary application ● Other application

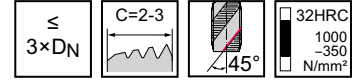
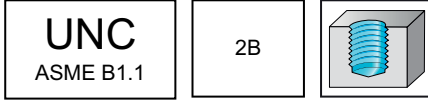
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

TC115 Perform mm



- For long-chipping materials



	P	M	K	N	S	H	O
WY80AA	●●	●●	●●	●			

DIN 371

Designation	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AA
TC115-UNC6-C0-	UNC #6-32	3,505	56	6,5	20	4	3	6	3	●●
TC115-UNC8-C0-	UNC #8-32	4,166	63	7	21	4,5	3,4	6	3	●●
TC115-UNC10-C0-	UNC #10-24	4,826	70	8	25	6	4,9	8	3	●●
TC115-UNC1/4-C0-	UNC 1/4-20	6,35	80	10	30	7	5,5	8	3	●●
TC115-UNC5/16-C0-	UNC 5/16-18	7,938	90	12	35	8	6,2	9	3	●●
TC115-UNC3/8-C0-	UNC 3/8-16	9,525	100	15	39	10	8	11	3	●●

Parallel shank

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

DIN 376

Designation	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AA
TC115-UNC1/2-L0-	UNC 1/2-13	12,7	110	18	83	9	7	10	3	●●
TC115-UNC5/8-L0-	UNC 5/8-11	15,875	110	20	68	12	9	12	3	●●
TC115-UNC3/4-L0-	UNC 3/4-10	19,05	125	25	81	14	11	14	4	●●

Parallel shank

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

WALTER SELECT

●● Primary application ● Other application

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

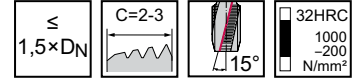
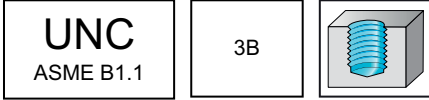
HSS-E machine taps

mm

Paradur® N

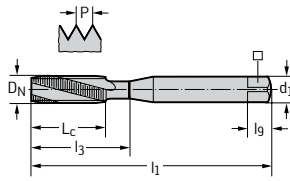


- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●		●●	●●			

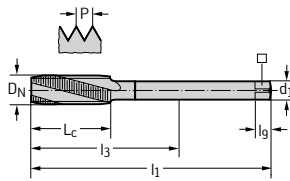
DIN 2184-1



Parallel shank

Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
22400-UNC2	UNC #2-56	2,184	45	4	12	2,8	2,1	5	3
22400-UNC4	UNC #4-40	2,845	56	6	18	3,5	2,7	6	3
22400-UNC6	UNC #6-32	3,505	56	6,5	20	4	3	6	3
22400-UNC8	UNC #8-32	4,166	63	7	21	4,5	3,4	6	3
22400-UNC1/4	UNC 1/4-20	6,35	80	10	30	7	5,5	8	3
22400-UNC5/16	UNC 5/16-18	7,938	90	12	35	8	6,2	9	3
22400-UNC3/8	UNC 3/8-16	9,525	100	15	39	10	8	11	3

DIN 2184-1



Parallel shank

Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
22450-UNC1/2	UNC 1/2-13	12,7	110	18	83	9	7	10	3
22450-UNC5/8	UNC 5/8-11	15,875	110	20	68	12	9	12	3
22450-UNC3/4	UNC 3/4-10	19,05	125	25	81	14	11	14	4

C1

WALTER SELECT ●● Primary application ● Other application

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

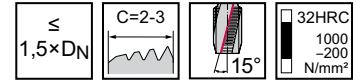
HSS-E machine taps

mm

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	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	22410-UNC1	UNC #1-64	1,854	45	4	9	2,8	2,1	5	3
	22410-UNC2	UNC #2-56	2,184	45	4	12	2,8	2,1	5	3
	22410-UNC4	UNC #4-40	2,845	56	6	18	3,5	2,7	6	3
	22410-UNC6	UNC #6-32	3,505	56	6,5	20	4	3	6	3
	22410-UNC8	UNC #8-32	4,166	63	7	21	4,5	3,4	6	3
	22410-UNC10	UNC #10-24	4,826	70	8	25	6	4,9	8	3
	22410-UNC12	UNC #12-24	5,486	80	10	30	6	4,9	8	3
	22410-UNC1/4	UNC 1/4-20	6,35	80	10	30	7	5,5	8	3
	22410-UNC5/16	UNC 5/16-18	7,938	90	12	35	8	6,2	9	3
	22410-UNC3/8	UNC 3/8-16	9,525	100	15	39	10	8	11	3

DIN 2184-1	Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	22460-UNC7/16	UNC 7/16-14	11,113	100	15	76	8	6,2	9	3
	22460-UNC1/2	UNC 1/2-13	12,7	110	18	83	9	7	10	3
	22460-UNC5/8	UNC 5/8-11	15,875	110	20	68	12	9	12	3
	22460-UNC3/4	UNC 3/4-10	19,05	125	25	81	14	11	14	4
	22460-UNC7/8	UNC 7/8-9	22,225	140	25	93	18	14,5	17	4
	22460-UNC1	UNC 1"-8	25,4	160	30	113	18	14,5	17	4

C1

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

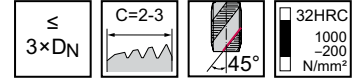
HSS-E machine taps

mm

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	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	P22509-UNC2	UNC #2-56	2,184	45	4	12	2,8	2,1	5	3
	P22509-UNC3	UNC #3-48	2,515	50	4	12,5	2,8	2,1	5	3
	P22509-UNC4	UNC #4-40	2,845	56	6	18	3,5	2,7	6	3
	P22509-UNC6	UNC #6-32	3,505	56	6,5	20	4	3	6	3
	P22509-UNC8	UNC #8-32	4,166	63	7	21	4,5	3,4	6	3
	P22509-UNC10	UNC #10-24	4,826	70	8	25	6	4,9	8	3
	P22509-UNC1/4	UNC 1/4-20	6,35	80	10	30	7	5,5	8	3
	P22509-UNC5/16	UNC 5/16-18	7,938	90	12	35	8	6,2	9	3
	P22509-UNC3/8	UNC 3/8-16	9,525	100	15	39	10	8	11	3

C1

DIN 2184-1	Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	d ₁ h9 mm	□ mm	l _g mm	N	
										Parallel shank
	P22559-UNC5/16	UNC 5/16-18	7,938	90	12	6	4,9	8	3	
	P22559-UNC3/8	UNC 3/8-16	9,525	100	15	7	5,5	8	3	
	P22559-UNC7/16	UNC 7/16-14	11,113	100	15	8	6,2	9	3	
	P22559-UNC1/2	UNC 1/2-13	12,7	110	18	9	7	10	4	
	P22559-UNC9/16	UNC 9/16-12	14,288	110	20	11	9	12	4	
	P22559-UNC5/8	UNC 5/8-11	15,875	110	20	12	9	12	4	
	P22559-UNC3/4	UNC 3/4-10	19,05	125	25	14	11	14	4	
	P22559-UNC7/8	UNC 7/8-9	22,225	140	25	18	14,5	17	4	
	P22559-UNC1	UNC 1"-8	25,4	160	30	18	14,5	17	4	
	P22559-UNC1.1/4	UNC 1.1/4-7	31,75	180	35	22	18	21	4	

WALTER SELECT ●● Primary application ● Other application

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

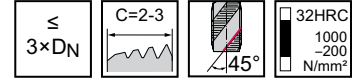
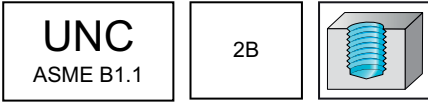
HSS-E machine taps

mm

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	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	P22519-UNC2	UNC #2-56	2,184	45	4	12	2,8	2,1	5	3	
	P22519-UNC3	UNC #3-48	2,515	50	4	12,5	2,8	2,1	5	3	
	P22519-UNC4	UNC #4-40	2,845	56	6	18	3,5	2,7	6	3	
	P22519-UNC5	UNC #5-40	3,175	56	6	18	3,5	2,7	6	3	
	P22519-UNC6	UNC #6-32	3,505	56	6,5	20	4	3	6	3	
	P22519-UNC8	UNC #8-32	4,166	63	7	21	4,5	3,4	6	3	
	P22519-UNC10	UNC #10-24	4,826	70	8	25	6	4,9	8	3	
	P22519-UNC12	UNC #12-24	5,486	80	10	30	6	4,9	8	3	
	P22519-UNC1/4	UNC 1/4-20	6,35	80	10	30	7	5,5	8	3	
	P22519-UNC5/16	UNC 5/16-18	7,938	90	12	35	8	6,2	9	3	
	P22519-UNC3/8	UNC 3/8-16	9,525	100	15	39	10	8	11	3	

DIN 2184-1		Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	P22569-UNC7/16	UNC 7/16-14	11,113	100	15	76	8	6,2	9	3	
	P22569-UNC1/2	UNC 1/2-13	12,7	110	18	83	9	7	10	4	
	P22569-UNC9/16	UNC 9/16-12	14,288	110	20	81	11	9	12	4	
	P22569-UNC5/8	UNC 5/8-11	15,875	110	20	68	12	9	12	4	
	P22569-UNC3/4	UNC 3/4-10	19,05	125	25	81	14	11	14	4	
	P22569-UNC7/8	UNC 7/8-9	22,225	140	25	93	18	14,5	17	4	
	P22569-UNC1	UNC 1"-8	25,4	160	30	113	18	14,5	17	4	
	P22569-UNC1.1/8	UNC 1.1/8-7	28,575	180	35	115	22	18	21	4	
	P22569-UNC1.1/4	UNC 1.1/4-7	31,75	180	35	115	22	18	21	4	
	P22569-UNC1.1/2	UNC 1.1/2-6	38,1	200	40	131	28	22	25	4	

WALTER SELECT ●● Primary application ● Other application

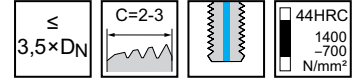
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

TC130 Supreme

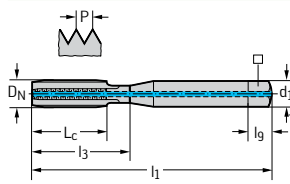


- WY80AA: Good Performance



	P	M	K	N	S	H	O
WY80AA	●●		●●	●●			●

DIN 2184-1



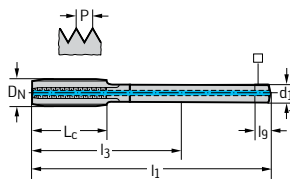
Designation	D_N -P	D_N mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	I_9 mm	N	WY80AA	
TC130-UNC1/4-C1-	UNC 1/4-20	6,35	80	15	30	7	5,5	8	3	●●
TC130-UNC5/16-C1-	UNC 5/16-18	7,938	90	18	35	8	6,2	9	3	●●
TC130-UNC3/8-C1-	UNC 3/8-16	9,525	100	20	39	10	8	11	3	●●

Parallel shank

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

C1

DIN 2184-1



Designation	D_N -P	D_N mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	I_9 mm	N	WY80AA	
TC130-UNC1/2-L1-	UNC 1/2-13	12,7	110	23	83	9	7	10	3	●●
TC130-UNC5/8-L1-	UNC 5/8-11	15,875	110	25	68	12	9	12	3	●●
TC130-UNC3/4-L1-	UNC 3/4-10	19,05	125	30	81	14	11	14	3	●●
TC130-UNC1-L1-	UNC 1"-8	25,4	160	36	113	18	14,5	17	4	●●

Parallel shank

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

**WALTER
SELECT**

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

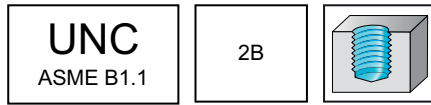
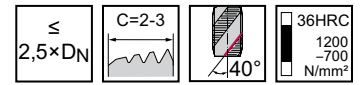
HSS-E machine taps

mm

Paradur® X-pert M



- For long-chipping materials



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

DIN 2184-1		Designation TIN	Designation VAP	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	M2251305-UNC2	M22513-UNC2	UNC #2-56	2,184	45	4	12	2,8	2,1	5	3	
	M2251305-UNC3	M22513-UNC3	UNC #3-48	2,515	50	4	12,5	2,8	2,1	5	3	
	M2251305-UNC4	M22513-UNC4	UNC #4-40	2,845	56	6	18	3,5	2,7	6	3	
	M2251305-UNC5	M22513-UNC5	UNC #5-40	3,175	56	6	18	3,5	2,7	6	3	
	M2251305-UNC6	M22513-UNC6	UNC #6-32	3,505	56	6,5	20	4	3	6	3	
	M2251305-UNC8	M22513-UNC8	UNC #8-32	4,166	63	7	21	4,5	3,4	6	3	
	M2251305-UNC10	M22513-UNC10	UNC #10-24	4,826	70	8	25	6	4,9	8	3	
	M2251305-UNC12	M22513-UNC12	UNC #12-24	5,486	80	10	30	6	4,9	8	3	
	M2251305-UNC1/4	M22513-UNC1/4	UNC 1/4-20	6,35	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	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	M2256305-UNC5/16	M22563-UNC5/16	UNC 5/16-18	7,938	90	12	67	6	4,9	8	3	
	M2256305-UNC3/8	M22563-UNC3/8	UNC 3/8-16	9,525	100	15	77	7	5,5	8	3	
	M2256305-UNC7/16	M22563-UNC7/16	UNC 7/16-14	11,113	100	15	76	8	6,2	9	3	
	M2256305-UNC1/2	M22563-UNC1/2	UNC 1/2-13	12,7	110	18	83	9	7	10	4	
	M2256305-UNC9/16	M22563-UNC9/16	UNC 9/16-12	14,288	110	20	81	11	9	12	4	
	M2256305-UNC5/8	M22563-UNC5/8	UNC 5/8-11	15,875	110	20	68	12	9	12	4	
	M2256305-UNC3/4	M22563-UNC3/4	UNC 3/4-10	19,05	125	25	81	14	11	14	4	
	M2256305-UNC7/8	M22563-UNC7/8	UNC 7/8-9	22,225	140	25	93	18	14,5	17	4	
	M2256305-UNC1	M22563-UNC1	UNC 1"-8	25,4	160	30	113	18	14,5	17	4	
		M22563-UNC1.1/8	UNC 1.1/8-7	28,575	180	35	115	22	18	21	5	
		M22563-UNC1.1/4	UNC 1.1/4-7	31,75	180	35	115	22	18	21	5	
		M22563-UNC1.1/2	UNC 1.1/2-6	38,1	200	40	131	28	22	25	5	

WALTER SELECT ●● Primary application ● Other application

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



HSS-E PM machine taps

mm

Paradur® Eco CI



- For short-chipping materials
- Nitrided

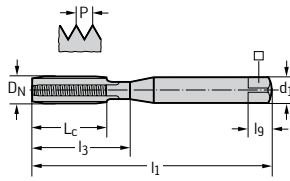
$\leq 3 \times D_N$



UNC
ASME B1.1
 



	P	M	K	N	S	H	O
NID			●●	●●			●●

DIN 2184-1

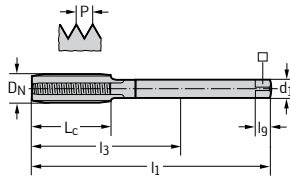


Parallel shank

Designation NID	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
E22314-UNC6	UNC #6-32	3,505	56	11	20	4	3	6	3
E22314-UNC8	UNC #8-32	4,166	63	12	21	4,5	3,4	6	3
E22314-UNC10	UNC #10-24	4,826	70	13	25	6	4,9	8	4
E22314-UNC1/4	UNC 1/4-20	6,35	80	15	30	7	5,5	8	4

C1

DIN 2184-1



Parallel shank

Designation NID	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
E22364-UNC5/16	UNC 5/16-18	7,938	90	18	67	6	4,9	8	4
E22364-UNC3/8	UNC 3/8-16	9,525	100	20	77	7	5,5	8	4
E22364-UNC7/16	UNC 7/16-14	11,113	100	20	76	8	6,2	9	4
E22364-UNC1/2	UNC 1/2-13	12,7	110	23	83	9	7	10	4
E22364-UNC9/16	UNC 9/16-12	14,288	110	25	81	11	9	12	4
E22364-UNC5/8	UNC 5/8-11	15,875	110	25	68	12	9	12	4
E22364-UNC3/4	UNC 3/4-10	19,05	125	30	81	14	11	14	4
E22364-UNC7/8	UNC 7/8-9	22,225	140	30	93	18	14,5	17	4

WALTER SELECT

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

HSS-E machine taps

mm

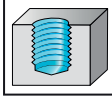
Paradur® X-pert N



– For long-chipping materials

UNC
ASME B1.1

2B



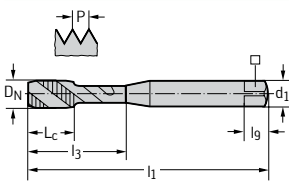
$\leq 3 \times D_N$

$C=2-3$

$\angle 35^\circ$

14HRC
700
-200
N/mm²

	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	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N
 <p>Parallel shank</p>	N22516-UNC2	UNC #2-56	2,184	45	4	12	2,8	2,1	5	2
	N22516-UNC4	UNC #4-40	2,845	56	6	18	3,5	2,7	6	2
	N22516-UNC6	UNC #6-32	3,505	56	6,5	20	4	3	6	2
	N22516-UNC8	UNC #8-32	4,166	63	7	21	4,5	3,4	6	2
	N22516-UNC10	UNC #10-24	4,826	70	8	25	6	4,9	8	2
	N22516-UNC1/4	UNC 1/4-20	6,35	80	10	30	7	5,5	8	2
	N22516-UNC5/16	UNC 5/16-18	7,938	90	12	35	8	6,2	9	2
	N22516-UNC3/8	UNC 3/8-16	9,525	100	15	39	10	8	11	2

C1

WALTER SELECT

●● Primary application ● Other application

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

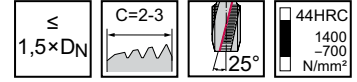
HSS-E PM machine taps

mm

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	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	224104-UNC2	UNC #2-56	2,184	45	9	9	2,8	2,1	5	3
	224104-UNC4	UNC #4-40	2,845	56	10	10	3,5	2,7	6	3
	224104-UNC6	UNC #6-32	3,505	56	12	12	4	3	6	3
	224104-UNC8	UNC #8-32	4,166	63	13	13	4,5	3,4	6	3
	224104-UNC1/4	UNC 1/4-20	6,35	80	15	25	7	5,5	8	3
	224104-UNC5/16	UNC 5/16-18	7,938	90	18	29,5	8	6,2	9	3
	224104-UNC3/8	UNC 3/8-16	9,525	100	20	33,5	10	8	11	4

≤ UNC 8: Without reduced neck after the thread

C1

DIN 2184-1	Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	224604-UNC7/16	UNC 7/16-14	11,113	100	20	76	8	6,2	9	4
	224604-UNC1/2	UNC 1/2-13	12,7	110	23	83	9	7	10	4
	224604-UNC9/16	UNC 9/16-12	14,288	110	25	81	11	9	12	4
	224604-UNC3/4	UNC 3/4-10	19,05	125	30	81	14	11	14	5

WALTER SELECT ●● Primary application ● Other application

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

HSS-E PM machine taps

mm

Paradur® Ni



$\leq 1,5 \times D_N$

$C=2-3$

$\angle 25^\circ$

44HRC
1400
-700
N/mm²

UNC
ASME B1.1

2B

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

~DIN 2184-1		Designation TICN	Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>		224102-UNC2	224102-UNC2	UNC #2-56	2,184	45	9	9	2,8	2,1	5	3
		224102-UNC3	224102-UNC3	UNC #3-48	2,515	50	9	9	2,8	2,1	5	3
		22410206-UNC4	224102-UNC4	UNC #4-40	2,845	56	10	10	3,5	2,7	6	3
		22410206-UNC5		UNC #5-40	3,175	56	10	10	3,5	2,7	6	3
		224102-UNC6		UNC #6-32	3,505	56	12	12	4	3	6	3
		22410206-UNC8	224102-UNC8	UNC #8-32	4,166	63	13	13	4,5	3,4	6	3
		22410206-UNC10	224102-UNC10	UNC #10-24	4,826	70	16	16	6	4,9	8	3
		22410206-UNC1/4	224102-UNC1/4	UNC 1/4-20	6,35	80	15	25	7	5,5	8	3
		22410206-UNC5/16	224102-UNC5/16	UNC 5/16-18	7,938	90	18	29,5	8	6,2	9	3
		22410206-UNC3/8	224102-UNC3/8	UNC 3/8-16	9,525	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	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>		224602-UNC7/16	224602-UNC7/16	UNC 7/16-14	11,113	100	20	76	8	6,2	9	4
		22460206-UNC1/2	224602-UNC1/2	UNC 1/2-13	12,7	110	23	83	9	7	10	4
		22460206-UNC5/8	224602-UNC5/8	UNC 5/8-11	15,875	110	25	68	12	9	12	4
		22460206-UNC3/4	224602-UNC3/4	UNC 3/4-10	19,05	125	30	81	14	11	14	5

WALTER SELECT

●● Primary application ● Other application

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

HSS-E PM machine taps

mm

Paradur® Ti



- Recommended with oil
- For long-chipping materials

UNC
ASME B1.1

3B

$\leq 2 \times D_N$

$C=2-3$

15°

44HRC
1400
-700
N/mm²

	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	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	224164-UNC6	UNC #6-32	3,505	56	12	12	4	3	6	3
	224164-UNC8	UNC #8-32	4,166	63	13	13	4,5	3,4	6	3
	224164-UNC10	UNC #10-24	4,826	70	16	16	6	4,9	8	3
	224164-UNC1/4	UNC 1/4-20	6,35	80	15	25	7	5,5	8	3
	224164-UNC5/16	UNC 5/16-18	7,938	90	18	29,5	8	6,2	9	3
	224164-UNC3/8	UNC 3/8-16	9,525	100	20	33,5	10	8	11	3

Parallel shank

≤ UNC 10: Without reduced neck after the thread

C1

DIN 2184-1	Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	224664-UNC7/16	UNC 7/16-14	11,113	100	20	76	8	6,2	9	4
	224664-UNC1/2	UNC 1/2-13	12,7	110	23	83	9	7	10	4

Parallel shank

WALTER SELECT

●● Primary application ● Other application

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

HSS-E PM machine taps

mm

Paradur® Ti



- Recommended with oil
- For long-chipping materials

≤
2×DN

C=2-3

15°

44HRC
1400-700
N/mm²

UNC
ASME B1.1

2B

	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	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	22416-UNC6	UNC #6-32	3,505	56	12	12	4	3	6	3
	22416-UNC8	UNC #8-32	4,166	63	13	13	4,5	3,4	6	3
	22416-UNC10	UNC #10-24	4,826	70	16	16	6	4,9	8	3
	22416-UNC12	UNC #12-24	5,486	80	15	23	6	4,9	8	3
	22416-UNC1/4	UNC 1/4-20	6,35	80	15	25	7	5,5	8	3
	22416-UNC5/16	UNC 5/16-18	7,938	90	18	29,5	8	6,2	9	3
	22416-UNC3/8	UNC 3/8-16	9,525	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	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	22466-UNC7/16	UNC 7/16-14	11,113	100	20	76	8	6,2	9	4
	22466-UNC1/2	UNC 1/2-13	12,7	110	23	83	9	7	10	4
	22466-UNC5/8	UNC 5/8-11	15,875	110	25	68	12	9	12	4

C1

WALTER SELECT

●● Primary application ● Other application

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

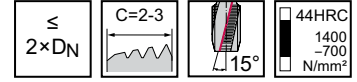
HSS-E PM machine taps

mm

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	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	22416-UNC6	UNC #6-32	3,505	56	12	12	4	3	6	3
	22416-UNC8	UNC #8-32	4,166	63	13	13	4,5	3,4	6	3
	22416-UNC10	UNC #10-24	4,826	70	16	16	6	4,9	8	3
	22416-UNC12	UNC #12-24	5,486	80	15	23	6	4,9	8	3
	22416-UNC1/4	UNC 1/4-20	6,35	80	15	25	7	5,5	8	3
	22416-UNC5/16	UNC 5/16-18	7,938	90	18	29,5	8	6,2	9	3
	22416-UNC3/8	UNC 3/8-16	9,525	100	20	33,5	10	8	11	3

≤ UNC 10: Without reduced neck after the thread

C1

DIN 2184-1	Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	22466-UNC7/16	UNC 7/16-14	11,113	100	20	76	8	6,2	9	4
	22466-UNC1/2	UNC 1/2-13	12,7	110	23	83	9	7	10	4
	22466-UNC5/8	UNC 5/8-11	15,875	110	25	68	12	9	12	4

Parallel shank

WALTER SELECT ●● Primary application ● Other application

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

HSS-E PM machine taps

mm

Prototex® Eco Plus



- For long-chipping materials

UNF
ASME B1.1

2B

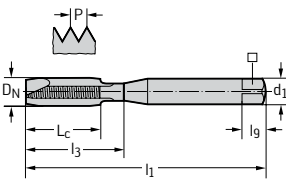
$\leq 3,5 \times D_N$

$B=3,5-5$

42HRC
1350-500
N/mm²

	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			

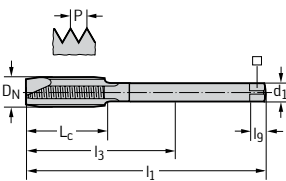
DIN 2184-1



Parallel shank

Designation THL	D _N -P	D _N mm	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
EP2321302-UNF4	UNF #4-48	2,845		56	9	18	3,5	2,7	6	3
EP2321302-UNF6	UNF #6-40	3,505		56	11	20	4	3	6	3
EP2321302-UNF8	UNF #8-36	4,166		63	12	21	4,5	3,4	6	3
EP2321302-UNF10	UNF #10-32	4,826		70	13	25	6	4,9	8	3
EP2321302-UNF1/4	UNF 1/4-28	6,35		80	15	30	7	5,5	8	3

DIN 2184-1



Parallel shank

Designation THL	D _N -P	D _N mm	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
EP2326302-UNF5/16	UNF 5/16-24	7,938		90	18	67	6	4,9	8	3
EP2326302-UNF3/8	UNF 3/8-24	9,525		100	20	77	7	5,5	8	3
EP2326302-UNF1/2	UNF 1/2-20	12,7		100	21	73	9	7	10	4
EP2326302-UNF5/8	UNF 5/8-18	15,875		100	21	58	12	9	12	4

C1

WALTER
SELECT

●● Primary application ● Other application

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

HSS-E machine taps

TC216 Perform




- For long-chipping materials

UNF
ASME B1.1

2B

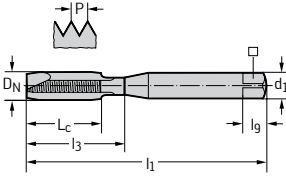


\leq
3×DN

B=3,5-5


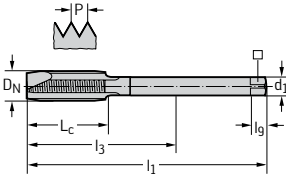
32HRC
 1000-350
 N/mm²

	P	M	K	N	S	H	O
WY80AA	●●	●●	●●	●●			

DIN 371	Designation	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AA
	TC216-UNF6-C0-	UNF #6-40	3,505	56	11	20	4	3	6	3	●●
	TC216-UNF10-C0-	UNF #10-32	4,826	70	13	25	6	4,9	8	3	●●
	TC216-UNF1/4-C0-	UNF 1/4-28	6,35	80	15	30	7	5,5	8	3	●●
	TC216-UNF5/16-C0-	UNF 5/16-24	7,938	90	18	35	8	6,2	9	3	●●
	TC216-UNF3/8-C0-	UNF 3/8-24	9,525	100	20	39	10	8	11	3	●●

Parallel shank

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

DIN 376	Designation	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AA
	TC216-UNF7/16-L0-	UNF 7/16-20	11,113	100	20	76	8	6,2	9	3	●●
	TC216-UNF1/2-L0-	UNF 1/2-20	12,7	100	21	73	9	7	10	4	●●

Parallel shank

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

HSS-E machine taps

mm

Prototex® X-pert P



- For long-chipping materials

UNF
ASME B1.1

3B

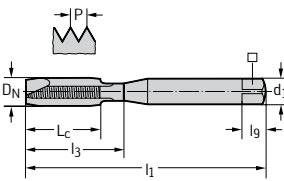
$\leq 3 \times D_N$

$B=3,5-5$

32HRC
1000-200
N/mm²

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

DIN 2184-1-B



Parallel shank

Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
P23200-UNF4	UNF #4-48	2,845	56	9	18	3,5	2,7	6	2
P23200-UNF6	UNF #6-40	3,505	56	11	20	4	3	6	2
P23200-UNF8	UNF #8-36	4,166	63	12	21	4,5	3,4	6	2
P23200-UNF10	UNF #10-32	4,826	70	13	25	6	4,9	8	2
P23200-UNF12	UNF #12-28	5,486	80	15	30	6	4,9	8	3
P23200-UNF1/4	UNF 1/4-28	6,35	80	15	30	7	5,5	8	3

C1

**WALTER
SELECT**

●● Primary application ● Other application

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

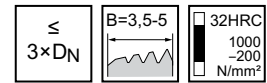
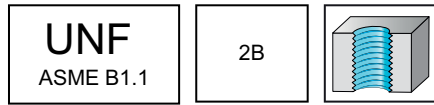
HSS-E machine taps

mm

Prototex® X-pert P

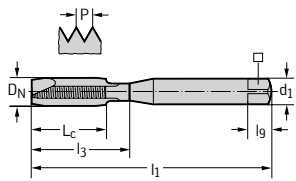


- For long-chipping materials



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

DIN 2184-1

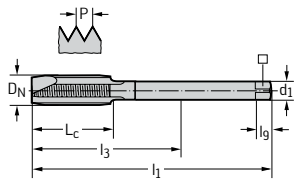


Parallel shank

Designation TIN	Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	
	P23210-UNF0	UNF #0-80	1,524	40	8	8	2,5	2,1	5	2	
	P23210-UNF1	UNF #1-72	1,854	45	6	9	2,8	2,1	5	2	
	P23210-UNF2	UNF #2-64	2,184	45	7	12	2,8	2,1	5	2	
	P23210-UNF3	UNF #3-56	2,515	50	8	12,5	2,8	2,1	5	2	
	P23210-UNF4	UNF #4-48	2,845	56	9	18	3,5	2,7	6	2	
	P23210-UNF6	UNF #6-40	3,505	56	11	20	4	3	6	2	
	P23210-UNF8	UNF #8-36	4,166	63	12	21	4,5	3,4	6	2	
	P23210-UNF10	UNF #10-32	4,826	70	13	25	6	4,9	8	2	
	P23210-UNF12	UNF #12-28	5,486	80	15	30	6	4,9	8	3	
	P2321005-UNF1/4	P23210-UNF1/4	UNF 1/4-28	6,35	80	15	30	7	5,5	8	3

UNF 0: Without reduced neck after the thread

DIN 2184-1



Parallel shank

Designation TIN	Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	
	P2336005-UNF5/16	P23360-UNF5/16	UNF 5/16-24	7,938	90	18	67	6	4,9	8	3
	P2336005-UNF3/8	P23360-UNF3/8	UNF 3/8-24	9,525	100	20	77	7	5,5	8	3
	P2336005-UNF7/16	P23360-UNF7/16	UNF 7/16-20	11,113	100	20	76	8	6,2	9	3
	P2336005-UNF1/2	P23360-UNF1/2	UNF 1/2-20	12,7	100	21	73	9	7	10	4
		P23360-UNF9/16	UNF 9/16-18	14,288	100	21	71	11	9	12	4
	P2336005-UNF5/8	P23360-UNF5/8	UNF 5/8-18	15,875	100	21	58	12	9	12	4
	P2336005-UNF3/4	P23360-UNF3/4	UNF 3/4-16	19,05	110	24	66	14	11	14	4
		P23360-UNF7/8	UNF 7/8-14	22,225	125	24	78	18	14,5	17	4
		P23360-UNF1	UNF 1"-12	25,4	140	26	93	18	14,5	17	4
		P23360-UNF1.1/4	UNF 1.1/4-12	31,75	150	26	85	22	18	21	4
		P23360-UNF1.1/8	UNF 1.1/8-12	28,575	150	26	85	22	18	21	4
		P23360-UNF1.1/2	UNF 1.1/2-12	38,1	170	28	101	28	22	25	4
		P23360-UNF1.3/8	UNF 1.3/8-12	34,925	170	28	101	28	22	25	4

WALTER
SELECT

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

HSS-E machine taps

mm

Prototex® X-pert M



- For long-chipping materials

$\leq 3 \times D_N$

B=3,5-5

36HRC
1200-700 N/mm²

UNF

ASME B1.1

2B

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

DIN 2184-1		Designation TIN	Designation VAP	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	
			M23213-UNF5	UNF #5-44	3,175	56	10	18	3,5	2,7	6	2	
			M23213-UNF6	UNF #6-40	3,505	56	11	20	4	3	6	2	
			M23213-UNF8	UNF #8-36	4,166	63	12	21	4,5	3,4	6	2	
			M2321305-UNF10	M23213-UNF10	UNF #10-32	4,826	70	13	25	6	4,9	8	3
			M23213-UNF12	M23213-UNF12	UNF #12-28	5,486	80	15	30	6	4,9	8	3
			M2321305-UNF1/4	M23213-UNF1/4	UNF 1/4-28	6,35	80	15	30	7	5,5	8	3

DIN 2184-1		Designation TIN	Designation VAP	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	
		M2326305-UNF5/16	M23263-UNF5/16	UNF 5/16-24	7,938	90	18	67	6	4,9	8	3	
		M2326305-UNF3/8	M23263-UNF3/8	UNF 3/8-24	9,525	100	20	77	7	5,5	8	3	
		M2326305-UNF7/16	M23263-UNF7/16	UNF 7/16-20	11,113	100	20	76	8	6,2	9	3	
		M2326305-UNF1/2	M23263-UNF1/2	UNF 1/2-20	12,7	100	21	73	9	7	10	4	
				M23263-UNF9/16	UNF 9/16-18	14,288	100	21	71	11	9	12	4
				M23263-UNF5/8	UNF 5/8-18	15,875	100	21	58	12	9	12	4
				M23263-UNF3/4	UNF 3/4-16	19,05	110	24	66	14	11	14	4
				M23263-UNF7/8	UNF 7/8-14	22,225	125	24	78	18	14,5	17	4
				M23263-UNF1	UNF 1"-12	25,4	140	26	93	18	14,5	17	4

**WALTER
SELECT**

●● Primary application ● Other application

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

HSS-E PM machine taps

mm

Prototex® TiNi



≤ 2×DN

B=3,5-5

44HRC
1400-700 N/mm²

UNF
ASME B1.1

3B

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

~DIN 2184-1

Designation TICN	Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	23207-UNF4	UNF #4-48	2,845	56	10	10	3,5	2,7	6	2
	23207-UNF5	UNF #5-44	3,175	56	10	10	3,5	2,7	6	2
	23207-UNF6	UNF #6-40	3,505	56	12	12	4	3	6	3
	2320706-UNF10	23207-UNF10	4,826	70	16	16	6	4,9	8	3
	2320706-UNF1/4	23207-UNF1/4	6,35	80	15	25	7	5,5	8	3
	2320706-UNF5/16	23207-UNF5/16	7,938	90	18	29,5	8	6,2	9	3
Parallel shank	2320706-UNF3/8	23207-UNF3/8	9,525	100	20	33,5	10	8	11	3

≤ UNF 10: Without reduced neck after the thread

C1

DIN 2184-1

Designation TICN	Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	2325706-UNF7/16	23257-UNF7/16	11,113	100	20	76	8	6,2	9	4
	2325706-UNF1/2	23257-UNF1/2	12,7	100	23	73	9	7	10	4
	2325706-UNF5/8	23257-UNF5/8	15,875	100	25	58	12	9	12	4

Parallel shank

WALTER
SELECT

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

HSS-E PM machine taps

mm

Prototex® TiNi



$\leq 2 \times D_N$

$B=3,5-5$

44HRC
1400
-700
N/mm²

UNF
ASME B1.1

2B

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

	~DIN 2184-1		D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
	Designation TICN	Designation uncoated									
<p>Parallel shank</p>	2321706-UNF5	23217-UNF5	UNF #5-44	3,175	56	10	10	3,5	2,7	6	2
		23217-UNF6	UNF #6-40	3,505	56	12	12	4	3	6	3
	2321706-UNF10	23217-UNF10	UNF #10-32	4,826	70	16	16	6	4,9	8	3
	2321706-UNF1/4	23217-UNF1/4	UNF 1/4-28	6,35	80	15	25	7	5,5	8	3
	2321706-UNF5/16	23217-UNF5/16	UNF 5/16-24	7,938	90	18	29,5	8	6,2	9	3
	2321706-UNF3/8	23217-UNF3/8	UNF 3/8-24	9,525	100	20	33,5	10	8	11	3

≤ UNF 10: Without reduced neck after the thread

	DIN 2184-1		D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
	Designation TICN	Designation uncoated									
<p>Parallel shank</p>	2326706-UNF7/16	23267-UNF7/16	UNF 7/16-20	11,113	100	20	76	8	6,2	9	4
	2326706-UNF1/2	23267-UNF1/2	UNF 1/2-20	12,7	100	23	73	9	7	10	4
	2326706-UNF5/8	23267-UNF5/8	UNF 5/8-18	15,875	100	25	58	12	9	12	4

C1

WALTER
SELECT

●● Primary application ● Other application

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

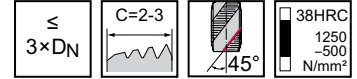
HSS-E PM machine taps

mm

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	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	EP2351302-UNF4	UNF #4-48	2,845	56	6	11	3,5	2,7	6	3	
	EP2351302-UNF6	UNF #6-40	3,505	56	6,5	13,1	4	3	6	3	
	EP2351302-UNF8	UNF #8-36	4,166	63	7	17,4	4,5	3,4	6	3	
	EP2351302-UNF10	UNF #10-32	4,826	70	8	20,7	6	4,9	8	3	
	EP2351302-UNF1/4	UNF 1/4-28	6,35	80	10	25,9	7	5,5	8	3	

DIN 2184-1		Designation THL	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	EP2356302-UNF5/16	UNF 5/16-24	7,938	90	12	67	6	4,9	8	3	
	EP2356302-UNF3/8	UNF 3/8-24	9,525	100	15	77	7	5,5	8	3	
	EP2356302-UNF1/2	UNF 1/2-20	12,7	100	13	73	9	7	10	4	
	EP2356302-UNF5/8	UNF 5/8-18	15,875	100	15	58	12	9	12	4	

C1

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

HSS-E PM machine taps

mm

Paradur® Eco Plus



– For long-chipping materials

UNF
ASME B1.1

2B

$\leq 3 \times D_N$

$C=2-3$

$\angle 45^\circ$

38HRC
1250
-500
N/mm²

	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			

~DIN 2184-1	Designation THL	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N

Parallel shank

DIN 2184-1	Designation THL	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	EP2356312-UNF3/8	UNF 3/8-24	9,525	100	15	77	7	5,5	8	3
	EP2356312-UNF1/2	UNF 1/2-20	12,7	100	13	73	9	7	10	4
	EP2356312-UNF5/8	UNF 5/8-18	15,875	100	15	58	12	9	12	4

Parallel shank

C1

WALTER SELECT

●● Primary application ● Other application

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

HSS-E machine taps

TC115 Perform mm



- For long-chipping materials

UNF
ASME B1.1

2B

\leq
3×DN

C=2-3

45°

32HRC
1000-350
N/mm²

	P	M	K	N	S	H	O
WY80AA	●●	●●	●●	●●	●●	●●	●●

DIN 371	Designation	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AA
	TC115-UNF6-C0-	UNF #6-40	3,505	56	6,5	20	4	3	6	3	●●
	TC115-UNF10-C0-	UNF #10-32	4,826	70	8	25	6	4,9	8	3	●●
	TC115-UNF1/4-C0-	UNF 1/4-28	6,35	80	10	30	7	5,5	8	3	●●
	TC115-UNF5/16-C0-	UNF 5/16-24	7,938	90	12	35	8	6,2	9	3	●●
	TC115-UNF3/8-C0-	UNF 3/8-24	9,525	100	15	39	10	8	11	3	●●

Parallel shank

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

C1

DIN 376	Designation	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AA
	TC115-UNF7/16-L0-	UNF 7/16-20	11,113	100	15	76	8	6,2	9	3	●●
	TC115-UNF1/2-L0-	UNF 1/2-20	12,7	100	13	73	9	7	10	4	●●

Parallel shank

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

WALTER SELECT

●● Primary application ● Other application

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

HSS-E machine taps

mm

Paradur® N



– For long-chipping materials

UNF
ASME B1.1

3B

$\leq 1,5 \times D_N$

$C=2-3$

$\angle 15^\circ$

32HRC
1000
-200
N/mm²

	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	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	23400-UNF0	UNF #0-80	1,524	40	6	6	2,5	2,1	5	3
	23400-UNF4	UNF #4-48	2,845	56	6	18	3,5	2,7	6	3
	23400-UNF8	UNF #8-36	4,166	63	7	21	4,5	3,4	6	3
	23400-UNF10	UNF #10-32	4,826	70	8	25	6	4,9	8	3
	23400-UNF12	UNF #12-28	5,486	80	10	30	6	4,9	8	3
	23400-UNF1/4	UNF 1/4-28	6,35	80	10	30	7	5,5	8	3
	23400-UNF5/16	UNF 5/16-24	7,938	90	12	35	8	6,2	9	3
	23400-UNF3/8	UNF 3/8-24	9,525	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	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	23450-UNF5/16	UNF 5/16-24	7,938	90	13	67	6	4,9	8	3
	23450-UNF3/8	UNF 3/8-24	9,525	100	15	77	7	5,5	8	3
	23450-UNF7/16	UNF 7/16-20	11,113	100	15	76	8	6,2	9	3
	23450-UNF1/2	UNF 1/2-20	12,7	100	13	73	9	7	10	3
	23450-UNF9/16	UNF 9/16-18	14,288	100	15	71	11	9	12	4
	23450-UNF3/4	UNF 3/4-16	19,05	110	17	66	14	11	14	4
	23450-UNF7/8	UNF 7/8-14	22,225	125	18	78	18	14,5	17	4

C1

WALTER SELECT

●● Primary application ● Other application

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

HSS-E machine taps

mm

Paradur® N



- For long-chipping materials

UNF
ASME B1.1

2B

$\leq 1,5 \times D_N$

C=2-3

15°

32HRC
1000-200
N/mm²

	P	M	K	N	S	H	O
uncoated	●●		●●	●●			

DIN 2184-1	Designation uncoated	D _N -P	D _N mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	23410-UNF0	UNF #0-80	1,524	40	6	6	2,5	2,1	5
	23410-UNF1	UNF #1-72	1,854	45	4	9	2,8	2,1	5
	23410-UNF2	UNF #2-64	2,184	45	4	12	2,8	2,1	5
	23410-UNF4	UNF #4-48	2,845	56	6	18	3,5	2,7	6
	23410-UNF8	UNF #8-36	4,166	63	7	21	4,5	3,4	6
	23410-UNF10	UNF #10-32	4,826	70	8	25	6	4,9	8
	23410-UNF12	UNF #12-28	5,486	80	10	30	6	4,9	8
	23410-UNF1/4	UNF 1/4-28	6,35	80	10	30	7	5,5	8
	23410-UNF5/16	UNF 5/16-24	7,938	90	12	35	8	6,2	9
	23410-UNF3/8	UNF 3/8-24	9,525	100	15	39	10	8	11

UNF 0: Without reduced neck after the thread

DIN 2184-1	Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	23460-UNF5/16	UNF 5/16-24	7,938	90	13	67	6	4,9	8	3
	23460-UNF3/8	UNF 3/8-24	9,525	100	15	77	7	5,5	8	3
	23460-UNF7/16	UNF 7/16-20	11,113	100	15	76	8	6,2	9	3
	23460-UNF1/2	UNF 1/2-20	12,7	100	13	73	9	7	10	3
	23460-UNF9/16	UNF 9/16-18	14,288	100	15	71	11	9	12	4
	23460-UNF5/8	UNF 5/8-18	15,875	100	15	58	12	9	12	4
	23460-UNF3/4	UNF 3/4-16	19,05	110	17	66	14	11	14	4
	23460-UNF7/8	UNF 7/8-14	22,225	125	18	78	18	14,5	17	4

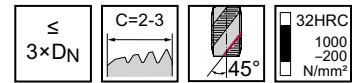
HSS-E machine taps

mm

Paradur® X-pert P



- For long-chipping materials



UNF
ASME B1.1

2B

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

DIN 2184-1		Designation TIN	Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	
<p>Parallel shank</p>		P23519-UNF1		UNF #1-72	1,854	45	4	9	2,8	2,1	5	3	
		P23519-UNF2		UNF #2-64	2,184	45	4	12	2,8	2,1	5	3	
		P23519-UNF3		UNF #3-56	2,515	50	4	12,5	2,8	2,1	5	3	
		P23519-UNF4		UNF #4-48	2,845	56	6	18	3,5	2,7	6	3	
		P23519-UNF5		UNF #5-44	3,175	56	6	18	3,5	2,7	6	3	
		P23519-UNF6		UNF #6-40	3,505	56	6,5	20	4	3	6	3	
		P23519-UNF8		UNF #8-36	4,166	63	7	21	4,5	3,4	6	3	
		P2351905-UNF10	P23519-UNF10		UNF #10-32	4,826	70	8	25	6	4,9	8	3
		P23519-UNF12			UNF #12-28	5,486	80	10	30	6	4,9	8	3
		P2351905-UNF1/4	P23519-UNF1/4		UNF 1/4-28	6,35	80	10	30	7	5,5	8	3

DIN 2184-1		Designation TIN	Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	
<p>Parallel shank</p>		P2356905-UNF5/16	P23569-UNF5/16	UNF 5/16-24	7,938	90	12	67	6	4,9	8	3	
		P2356905-UNF3/8	P23569-UNF3/8	UNF 3/8-24	9,525	100	15	77	7	5,5	8	3	
		P2356905-UNF7/16	P23569-UNF7/16	UNF 7/16-20	11,113	100	15	76	8	6,2	9	3	
		P2356905-UNF1/2	P23569-UNF1/2	UNF 1/2-20	12,7	100	13	73	9	7	10	4	
		P2356905-UNF9/16	P23569-UNF9/16	UNF 9/16-18	14,288	100	15	71	11	9	12	4	
		P2356905-UNF5/8	P23569-UNF5/8	UNF 5/8-18	15,875	100	15	58	12	9	12	4	
		P2356905-UNF3/4	P23569-UNF3/4	UNF 3/4-16	19,05	110	17	66	14	11	14	4	
		P2356905-UNF7/8	P23569-UNF7/8	UNF 7/8-14	22,225	125	18	78	18	14,5	17	4	
		P23569-UNF1			UNF 1"-12	25,4	140	20	93	18	14,5	17	5
		P23569-UNF1.1/8			UNF 1.1/8-12	28,575	150	20	85	22	18	21	5
		P23569-UNF1.1/4			UNF 1.1/4-12	31,75	150	20	85	22	18	21	5
		P23569-UNF1.3/8			UNF 1.3/8-12	34,925	170	22	101	28	22	25	5
		P23569-UNF1.1/2			UNF 1.1/2-12	38,1	170	22	101	28	22	25	5

WALTER SELECT

●● Primary application ● Other application

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

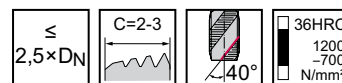
HSS-E machine taps

mm

Paradur® X-pert M



- For long-chipping materials



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

DIN 2184-1		Designation TIN	Designation VAP	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>		M23513-UNF6	M23513-UNF6	UNF #6-40	3,505	56	6,5	20	4	3	6	3
		M2351305-UNF8	M23513-UNF8	UNF #8-36	4,166	63	7	21	4,5	3,4	6	3
		M2351305-UNF10	M23513-UNF10	UNF #10-32	4,826	70	8	25	6	4,9	8	3
		M2351305-UNF12	M23513-UNF12	UNF #12-28	5,486	80	10	30	6	4,9	8	3
		M2351305-UNF1/4	M23513-UNF1/4	UNF 1/4-28	6,35	80	10	30	7	5,5	8	3

C1

DIN 2184-1		Designation TIN	Designation VAP	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>		M2356305-UNF5/16	M23563-UNF5/16	UNF 5/16-24	7,938	90	12	67	6	4,9	8	3
		M2356305-UNF3/8	M23563-UNF3/8	UNF 3/8-24	9,525	100	15	77	7	5,5	8	3
		M2356305-UNF7/16	M23563-UNF7/16	UNF 7/16-20	11,113	100	15	76	8	6,2	9	3
		M2356305-UNF1/2	M23563-UNF1/2	UNF 1/2-20	12,7	100	13	73	9	7	10	4
		M2356305-UNF9/16	M23563-UNF9/16	UNF 9/16-18	14,288	100	15	71	11	9	12	4
		M2356305-UNF5/8	M23563-UNF5/8	UNF 5/8-18	15,875	100	15	58	12	9	12	4
		M2356305-UNF3/4	M23563-UNF3/4	UNF 3/4-16	19,05	110	17	66	14	11	14	4
		M2356305-UNF7/8	M23563-UNF7/8	UNF 7/8-14	22,225	125	18	78	18	14,5	17	4
		M2356305-UNF1	M23563-UNF1	UNF 1"-12	25,4	140	20	93	18	14,5	17	5

WALTER SELECT ●● Primary application ● Other application

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

HSS-E PM machine taps

mm

Paradur® Eco CI



- For short-chipping materials
- Nitrided

≤
3×DN

C=2-3

32HRC
1000
-100
N/mm²

UNF
ASME B1.1

2B

	P	M	K	N	S	H	O
NID			●●	●●			●●

DIN 2184-1		Designation	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
		E23314-UNF10	UNF #10-32	4,826	70	13	25	6	4,9	8	4
		E23314-UNF1/4	UNF 1/4-28	6,35	80	15	30	7	5,5	8	4

Parallel shank

DIN 2184-1		Designation	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
		E23364-UNF5/16	UNF 5/16-24	7,938	90	18	67	6	4,9	8	4
		E23364-UNF3/8	UNF 3/8-24	9,525	100	20	77	7	5,5	8	4
		E23364-UNF7/16	UNF 7/16-20	11,113	100	20	76	8	6,2	9	4
		E23364-UNF1/2	UNF 1/2-20	12,7	100	21	73	9	7	10	4
		E23364-UNF9/16	UNF 9/16-18	14,288	100	21	71	11	9	12	4
		E23364-UNF5/8	UNF 5/8-18	15,875	100	21	58	12	9	12	4
		E23364-UNF3/4	UNF 3/4-16	19,05	110	24	66	14	11	14	4
		E23364-UNF7/8	UNF 7/8-14	22,225	125	24	78	18	14,5	17	5

Parallel shank

C1

WALTER SELECT

●● Primary application ● Other application

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

HSS-E PM machine taps

mm

Paradur® Ni



$\leq 1,5 \times D_N$ C=2-3 $\angle 25^\circ$ 44HRC
 1400-700 N/mm²

UNF
 ASME B1.1 3B

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

~DIN 2184-1

Designation TICN	Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
23410406-UNF8	234104-UNF8	UNF #8-36	4,166	63	13	42	4,5	3,4	6	3
23410406-UNF10	234104-UNF10	UNF #10-32	4,826	70	16	16	6	4,9	8	3
	234104-UNF12	UNF #12-28	5,486	80	15	23	6	4,9	8	3
23410406-UNF1/4	234104-UNF1/4	UNF 1/4-28	6,35	80	15	25	7	5,5	8	3
23410406-UNF5/16	234104-UNF5/16	UNF 5/16-24	7,938	90	18	29,5	8	6,2	9	3
23410406-UNF3/8	234104-UNF3/8	UNF 3/8-24	9,525	100	20	33,5	10	8	11	4

Parallel shank

≤ UNF 10: Without reduced neck after the thread

C1

DIN 2184-1

Designation TICN	Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
23460406-UNF7/16	234604-UNF7/16	UNF 7/16-20	11,113	100	20	76	8	6,2	9	4
23460406-UNF1/2	234604-UNF1/2	UNF 1/2-20	12,7	100	23	73	9	7	10	4
23460406-UNF5/8	234604-UNF5/8	UNF 5/8-18	15,875	100	25	58	12	9	12	4

Parallel shank

WALTER
SELECT

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

HSS-E PM machine taps

mm

Paradur® Ti



- Recommended with oil
- For long-chipping materials

UNF
ASME B1.1

3B

$\leq 2 \times D_N$

$C=2-3$

$\angle 15^\circ$

44HRC
1400
-700
N/mm²

	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	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	234164-UNF10	UNF #10-32	4,826	70	16	16	6	4,9	8	3
	234164-UNF1/4	UNF 1/4-28	6,35	80	15	25	7	5,5	8	3
	234164-UNF5/16	UNF 5/16-24	7,938	90	18	29,5	8	6,2	9	3
	234164-UNF3/8	UNF 3/8-24	9,525	100	20	33,5	10	8	11	3

Parallel shank

≤ UNF 10: Without reduced neck after the thread

DIN 2184-1	Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	d ₁ h9 mm	□ mm	l _g mm	N
	234664-UNF7/16	UNF 7/16-20	11,113	100	20	8	6,2	9	4
	234664-UNF1/2	UNF 1/2-20	12,7	100	23	9	7	10	4
	234664-UNF5/8	UNF 5/8-18	15,875	100	25	12	9	12	4

Parallel shank

C1

WALTER SELECT

●● Primary application ● Other application

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

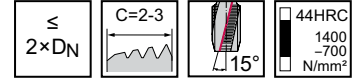
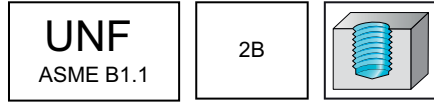
HSS-E PM machine taps

mm

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	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_g mm	N
	23416-UNF6	UNF #6-40	3,505	56	12	35	4	3	6	3
	23416-UNF10	UNF #10-32	4,826	70	16	16	6	4,9	8	3
	23416-UNF1/4	UNF 1/4-28	6,35	80	15	25	7	5,5	8	3
	23416-UNF5/16	UNF 5/16-24	7,938	90	18	29,5	8	6,2	9	3
	23416-UNF3/8	UNF 3/8-24	9,525	100	20	33,5	10	8	11	3

Parallel shank

≤ UNF 10: Without reduced neck after the thread

C1

DIN 2184-1	Designation uncoated	D_N -P	D_N mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_g mm	N
	23466-UNF7/16	UNF 7/16-20	11,113	100	20	76	8	6,2	9	4
	23466-UNF1/2	UNF 1/2-20	12,7	100	23	73	9	7	10	4
	23466-UNF5/8	UNF 5/8-18	15,875	100	25	58	12	9	12	4

Parallel shank

WALTER SELECT ●● Primary application ● Other application

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

HSS-E machine taps

mm

Prototex® X-pert P



- For long-chipping materials

UNEF
ASME B1.1

2B

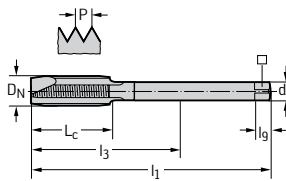
$\leq 3 \times D_N$

$B=3,5-5$

32HRC
1000-200
N/mm²

	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 2184-1



Parallel shank

Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
P233602-UNEF1/4	UNEF 1/4-32	6,35	80	15	59	4,5	3,4	6	3
P233602-UNEF5/16	UNEF 5/16-32	7,938	90	18	67	6	4,9	8	3
P233602-UNEF3/8	UNEF 3/8-32	9,525	90	20	67	7	5,5	8	3
P233602-UNEF7/16	UNEF 7/16-28	11,113	90	20	66	8	6,2	9	3
P233602-UNEF1/2	UNEF 1/2-28	12,7	100	21	73	9	7	10	4
P233602-UNEF9/16	UNEF 9/16-24	14,288	100	21	71	11	9	12	4
P233602-UNEF5/8	UNEF 5/8-24	15,875	100	21	58	12	9	12	4
P233602-UNEF11/16	UNEF 11/16-24	17,463	110	24	66	14	11	14	4
P233602-UNEF3/4	UNEF 3/4-20	19,05	110	24	66	14	11	14	4
P233602-UNEF7/8	UNEF 7/8-20	22,225	125	24	78	18	14,5	17	4

C1

WALTER SELECT

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

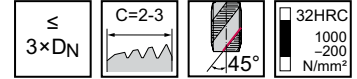
HSS-E machine taps

mm

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	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
<p>Parallel shank</p>	P235692-UNEF1/4	UNEF 1/4-32	6,35	80	10	59	4,5	3,4	6	3	
	P235692-UNEF5/16	UNEF 5/16-32	7,938	90	12	67	6	4,9	8	3	
	P235692-UNEF3/8	UNEF 3/8-32	9,525	90	12	67	7	5,5	8	3	
	P235692-UNEF7/16	UNEF 7/16-28	11,113	90	15	66	8	6,2	9	3	
	P235692-UNEF1/2	UNEF 1/2-28	12,7	100	13	73	9	7	10	4	
	P235692-UNEF9/16	UNEF 9/16-24	14,288	100	15	71	11	9	12	4	
	P235692-UNEF5/8	UNEF 5/8-24	15,875	100	15	58	12	9	12	4	
	P235692-UNEF11/16	UNEF 11/16-24	17,463	110	17	66	14	11	14	4	
	P235692-UNEF3/4	UNEF 3/4-20	19,05	110	17	66	14	11	14	4	
	P235692-UNEF7/8	UNEF 7/8-20	22,225	125	18	78	18	14,5	17	4	
	P235692-UNEF1	UNEF 1"-20	25,4	140	20	93	18	14,5	17	5	

C1

WALTER SELECT ●● Primary application ● Other application

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

HSS-E machine taps

mm

Paradur® X-pert P



- For long-chipping materials

UN-8
ASME B1.1

2B

$\leq 3 \times DN$

$C=2-3$

$\angle 45^\circ$

32HRC
1000
-200
N/mm²

	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	□ mm	l ₉ mm	N
<p>Parallel shank</p>	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

WALTER SELECT

●● Primary application ● Other application

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

HSS-E machine taps

mm

Paradur® X-pert M



- For long-chipping materials

UN-8
ASME B1.1

3B



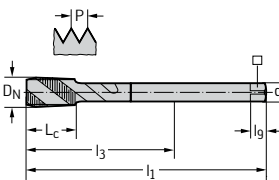
$\leq 2,5 \times D_N$

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	□ mm	l _g mm	N
 <p>Parallel shank</p>	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

C1

WALTER
SELECT

●● Primary application ● Other application

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

HSS-E machine taps

mm

Paradur® X-pert M



- For long-chipping materials

UN-8
ASME B1.1

2B

$\leq 2,5 \times D_N$

$C=2-3$

$\angle 40^\circ$

36HRC
1200
-700
N/mm²

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

DIN 2184-1	Designation VAP	D_N -P	D_N mm	l_1 mm	L_c mm	d_1 h9 mm	\square mm	l_2 mm	N
<p>Parallel shank</p>	M225632-UN1.1/8	UN 1.1/8-8	28,575	180	30	22	18	21	4
	M225632-UN1.1/4	UN 1.1/4-8	31,75	180	30	22	18	21	4
	M225632-UN1.3/8	UN 1.3/8-8	34,925	200	30	28	22	25	5
	M225632-UN1.1/2	UN 1.1/2-8	38,1	200	30	28	22	25	5
	M225632-UN1.5/8	UN 1.5/8-8	41,275	200	33	32	24	27	5
	M225632-UN1.3/4	UN 1.3/4-8	44,45	200	33	36	29	32	6
	M225632-UN1.7/8	UN 1.7/8-8	47,625	225	36	36	29	32	6
	M225632-UN2	UN 2"-8	50,8	225	36	40	32	35	6

C1

WALTER
SELECT

●● Primary application ● Other application

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

HSS-E PM machine taps

mm

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	□ mm	l_9 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

Parallel shank

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

mm

Paradur® Ti



- Recommended with oil
- External diameter, rounded

≤
2×DN

C=2-3

15°

44HRC
1400
-700
N/mm²

MJ
DIN ISO 5855-1

ISO1/4H

	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	□ 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
	Parallel shank									

≤ MJ 5: 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

mm

Paradur® Ni 10



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

UNJC
ASME B1.15

3B

$\leq 1,5 \times D_N$

C=2-3

10°

49HRC
1600
-1000
N/mm²

	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	□ 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	
	Parallel shank	224101-UNJC3/8	UNJC 3/8-16	9,525	100	25	10	8	11	3

≤ UNC 10: 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

mm

Paradur® Ni 10



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

UNJF
ASME B1.15

3B

$\leq 1,5 \times D_N$

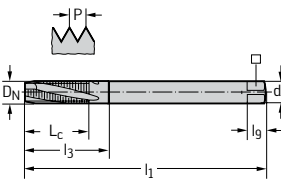
$C=2-3$

$\angle 10^\circ$

49HRC
1600
-1000
N/mm²

	P	M	K	N	S	H	O
uncoated	●●			●	●●		

~DIN 2184-1



Designation uncoated	DN-P	DN mm	l ₁ mm	L _c mm	d _g h9 mm	□ mm	l ₉ mm	N
234101-UNJF6	UNJF #6-40	3,505	56	9,5	4	3	6	3
234101-UNJF8	UNJF #8-36	4,166	63	11	4,5	3,4	6	3
234101-UNJF10	UNJF #10-32	4,826	70	12,5	6	4,9	8	3
234101-UNJF1/4	UNJF 1/4-28	6,35	80	16	7	5,5	8	3
234101-UNJF5/16	UNJF 5/16-24	7,938	90	20	8	6,2	9	3
234101-UNJF3/8	UNJF 3/8-24	9,525	100	23	10	8	11	3

Parallel shank

≤ UNJF 10: 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

mm

Paradur® Ti Plus



- Recommended with emulsion
- External diameter, rounded

UNJF
ASME B1.15

3B

$\leq 2 \times D_N$

$C=2-3$

15°

44HRC
1400-700
N/mm²

ACN

~DIN 2184-1		Designation ACN	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	2340663-UNJF10	UNJF #10-32		4,826	70	16	16	6	4,9	8	3
	2340663-UNJF1/4	UNJF 1/4-28		6,35	80	15	25	7	5,5	8	3
	2340663-UNJF5/16	UNJF 5/16-24		7,938	90	18	29,5	8	6,2	9	3
	2340663-UNJF3/8	UNJF 3/8-24		9,525	100	20	33,5	10	8	11	3

Parallel shank

UNJF 10: 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

mm

Prototex® TiNi Plus



- Recommended with emulsion
- External diameter, rounded

≤
2×DN

B=3,5-5

44HRC
1400
-700
N/mm²

UNJF
ASME B1.15

3B

	P	M	K	N	S	H	O
ACN					●●		

~DIN 2184-1		Designation	D _N -P	D _N	l ₁	L _c	l ₃	d ₁	□	l _g	N
		ACN		mm	mm	mm	mm	h9 mm	mm	mm	
		2320763-UNJF10	UNJF #10-32	4,826	70	16	16	6	4,9	8	3
		2320763-UNJF1/4	UNJF 1/4-28	6,35	80	15	25	7	5,5	8	3
		2320763-UNJF5/16	UNJF 5/16-24	7,938	90	18	29,5	8	6,2	9	3
		2320763-UNJF3/8	UNJF 3/8-24	9,525	100	20	33,5	10	8	11	3

Parallel shank

UNJF 10: Without reduced neck after the thread

C1

WALTER SELECT

●● Primary application ● Other application

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

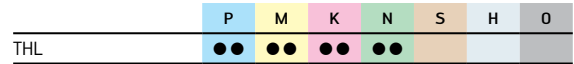
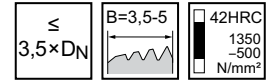
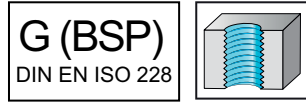
HSS-E PM machine taps

mm

Prototex® Eco Plus



– For long-chipping materials



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	□ mm	l ₉ mm	N
<p>Parallel shank</p>	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	

C1

**WALTER
SELECT**

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

HSS-E machine taps

mm

Prototex® X-pert P



- For long-chipping materials

$\leq 3 \times D_N$

G (BSP)
 DIN EN ISO 228

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

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_2 mm	l_9 mm	N
<p>Parallel shank</p>	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_9 dimensions in accordance with DIN 10

C1

WALTER
SELECT

●● Primary application ● Other application

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

HSS-E machine taps

mm

Prototex® X-pert M



- For long-chipping materials

\leq
3×DN

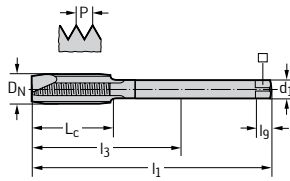
B=3,5-5

36HRC
 1200
 -700
 N/mm²

G (BSP)
 DIN EN ISO 228

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

DIN 5156



Parallel shank

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	□ mm	l _q 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

C1

**WALTER
SELECT**

●● Primary application ● Other application

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

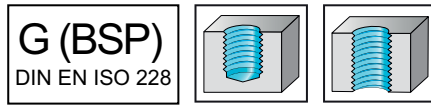
HSS-E taps, short

mm

KMB Ms



– For short-chipping materials



≤
3×DN

F=1-1,5

S
+l₁

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	□ 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

Parallel shank

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	□ 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

Parallel shank

Thread machining allowance 0.1 mm

WALTER SELECT

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

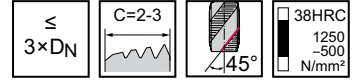
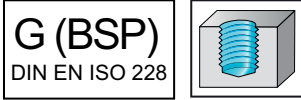
HSS-E PM machine taps

mm

Paradur® Eco Plus

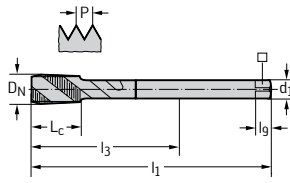


- For long-chipping materials



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			

DIN 5156



Parallel shank

Designation THL	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ 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

C1

**WALTER
SELECT**

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

HSS-E machine taps

mm

Paradur® Synchrospeed



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

$\leq 2,5 \times D_N$

$C=2-3$

$\angle 40^\circ$

40HRC
1300
N/mm²

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 h6 mm	□ mm	l_9 mm	N
<p>Parallel shank</p>	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	

C1

WALTER SELECT

●● Primary application ● Other application

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

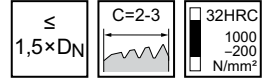
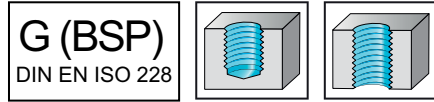
HSS-E machine taps

mm

Paradur® H



- For long- and short-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	\square mm	l_9 mm	N
<p>Parallel shank</p>	24361-G1/8	G 1/8-28	9,728	28	90	20	67	7	5,5	8	3
	24361-G1/4	G 1/4-19	13,157	19	100	21	71	11	9	12	4
	24361-G3/8	G 3/8-19	16,662	19	100	21	58	12	9	12	4
	24361-G1/2	G 1/2-14	20,955	14	125	24	80	16	12	15	4
	24361-G5/8	G 5/8-14	22,911	14	125	24	78	18	14,5	17	4
	24361-G3/4	G 3/4-14	26,441	14	140	26	77	20	16	19	4
	24361-G1	G 1"-11	33,249	11	160	28	93	25	20	23	4
	24361-G1.1/4	G 1.1/4-11	41,91	11	170	28	72	32	24	27	4
	24361-G1.1/2	G 1.1/2-11	47,803	11	190	30	87	36	29	32	6
	24361-G2	G 2"-11	59,614	11	220	34	87	45	35	38	6
	24361-G2.1/2	G 2.1/2-11	75,184	11	275	38	138	50	39	42	6

C1

WALTER SELECT ●● Primary application ● Other application

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

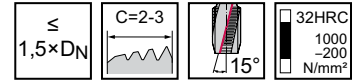
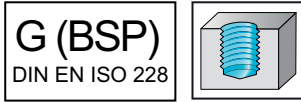
HSS-E machine taps

mm

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	□ mm	l ₉ 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

C1

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

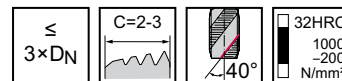
HSS-E machine taps

mm

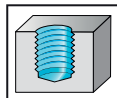
Paradur® X-pert P



- For long-chipping materials

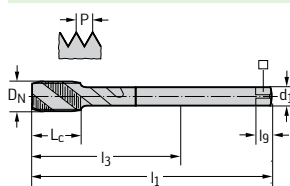


G (BSP)
DIN EN ISO 228



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

DIN 5156



Parallel shank

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	□ 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

WALTER
SELECT

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

HSS-E machine taps

mm

Paradur® STE



- For long-chipping materials

$\leq 2,5 \times D_N$

$E=1,5-2$

$\angle 40^\circ$

36HRC
1200-350
N/mm²

G (BSP)
DIN EN ISO 228

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

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	□ mm	l_9 mm	N
<p>Parallel shank</p>	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	

C1

WALTER SELECT

●● Primary application ● Other application

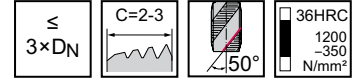
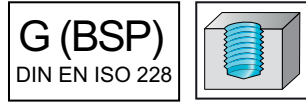
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E (-PM) machine taps

TC142 Supreme

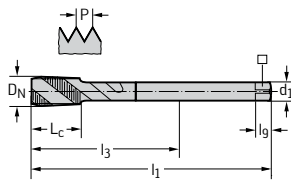


- WY80FC: Best chip control
- WW60RB: Best wear resistance



	P	M	K	N	S	H	O
WY80FC	●	●●					

DIN 5156												WY80FC
Designation	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ 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	☞	



Parallel shank

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

C1

WALTER SELECT ●● Primary application ● Other application

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

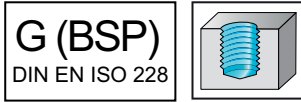
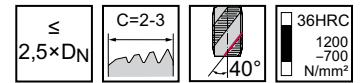
HSS-E machine taps

mm

Paradur® X-pert M



– For long-chipping materials



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

DIN 5156	Designation	Designation	D_N -P	D_N mm	Threads per inch	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N	
	TIN	VAP											
<p>Parallel shank</p>	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	
		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

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

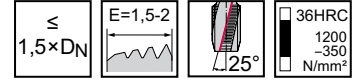
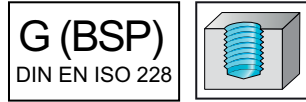
HSS-E machine taps

mm

Paradur Inox® 25



- For long-chipping materials



	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_2 mm	l_9 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

Parallel shank

C1

HSS-E PM machine taps

mm

Paradur® Eco CI

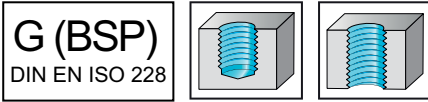


- For short-chipping materials
- Nitrided

$\leq 3 \times D_N$

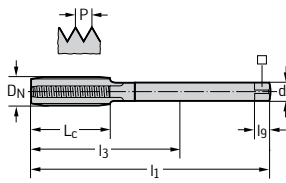
$C=2-3$

32HRC
 1000
 -100
 N/mm²



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

DIN 5156



Parallel shank

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	□ mm	l ₉ 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

C1

WALTER SELECT

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

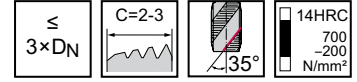
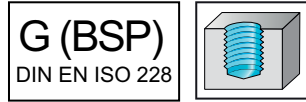
HSS-E machine taps

mm

Paradur® X-pert 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	□ mm	l_9 mm	N
	N24566-G1/8	G 1/8-28	9,728	28	90	12	67	7	5,5	8	3

Parallel shank

C1

WALTER SELECT ●● Primary application ● Other application

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

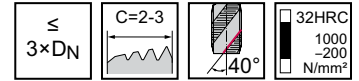
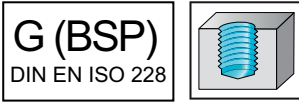
HSS-E machine taps

mm

Paradur® Uni

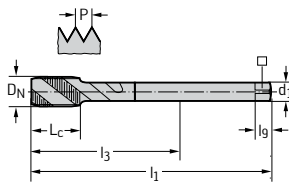


– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●		●	●			

DIN 5156



Parallel shank

Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	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

C1

WALTER SELECT

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

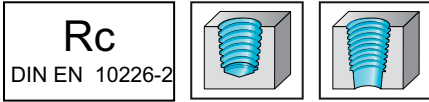
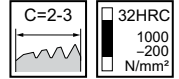
HSS-E machine taps

mm

Paradur® H

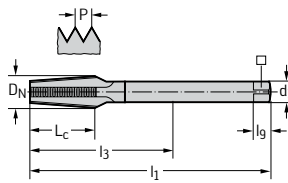


- For long- and short-chipping materials



	P	M	K	N	S	H	O
uncoated			●	●●			●

PWZ-NORM



Parallel shank

Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l ₉ mm	N
24167-RC1/8	Rc 1/8-28	9,728	28	90	13	67	7	5,5	6	4
24167-RC1/4	Rc 1/4-19	13,157	19	100	20	71	11	9	9	4
24167-RC3/8	Rc 3/8-19	16,662	19	110	20	68	12	9	9	4
24167-RC1/2	Rc 1/2-14	20,955	14	125	26	80	16	12	12	5
24167-RC3/4	Rc 3/4-14	26,441	14	140	26	77	20	16	16	5
24167-RC1	Rc 1"-11	33,249	11	150	32	83	25	20	20	5
24167-RC1.1/4	Rc 1.1/4-11	41,91	11	160	32	62	32	24	24	6
24167-RC1.1/2	Rc 1.1/2-11	47,803	11	180	32	77	36	29	29	6

Taper ratio 1:16

C1

WALTER
SELECT

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

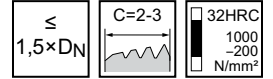
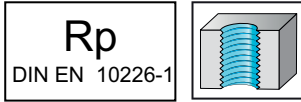
HSS-E machine taps

mm

Paradur® H



- For long- and short-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	□ mm	l ₉ mm	N
	243612-RP1/8	Rp 1/8-28	9,728	28	90	20	67	7	5,5	8	3
	243612-RP1/4	Rp 1/4-19	13,157	19	100	21	71	11	9	12	4
	243612-RP3/8	Rp 3/8-19	16,662	19	100	21	58	12	9	12	4
	243612-RP1/2	Rp 1/2-14	20,955	14	125	24	80	16	12	15	4
	243612-RP3/4	Rp 3/4-14	26,441	14	140	26	77	20	16	19	4
	243612-RP1	Rp 1"-11	33,249	11	160	28	93	25	20	23	4
	243612-RP1.1/2	Rp 1.1/2-11	47,803	11	190	30	87	36	29	32	6

C1

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

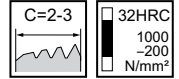
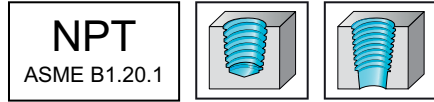
HSS-E machine taps

mm

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	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
	25167-NPT1/16	NPT 1/16-27	7,717	27	80	14	56	8	6,2	6	3
	25167-NPT1/8	NPT 1/8-27	10,065	27	90	14	61	11	9	9	3
	25167-NPT1/4	NPT 1/4-18	13,372	18	100	20	56	14	11	11	3
	25167-NPT3/8	NPT 3/8-18	16,812	18	110	20	65	16	12	12	4
	25167-NPT1/2	NPT 1/2-14	20,947	14	125	26	78	18	14,5	15	4
	25167-NPT3/4	NPT 3/4-14	26,292	14	140	26	75	22	18	18	5
	25167-NPT1	NPT 1"-11.5	32,914	11,5	150	31	81	28	22	22	5
	25167-NPT1.1/4	NPT 1.1/4-11.5	41,67	11,5	160	31	62	32	24	24	5
	25167-NPT1.1/2	NPT 1.1/2-11.5	47,74	11,5	160	31	57	36	29	29	6
	25167-NPT2	NPT 2"-11.5	59,778	11,5	180	31	47	45	35	35	7

Taper ratio 1:16

C1

WALTER SELECT ●● Primary application ● Other application

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

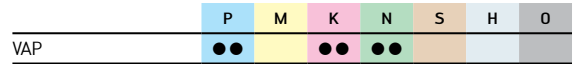
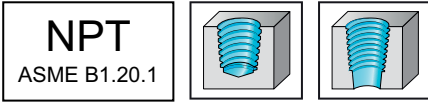
HSS-E machine taps

mm

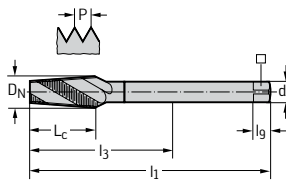
Paradur® N



- For long-chipping materials



PWZ-NORM



Designation VAP	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l ₉ mm	N
25460-NPT1/16	NPT 1/16-27	7,717	27	80	14	56	8	6,2	6	3
25460-NPT1/8	NPT 1/8-27	10,065	27	90	14	61	11	9	9	3
25460-NPT1/4	NPT 1/4-18	13,372	18	100	20	56	14	11	11	3
25460-NPT3/8	NPT 3/8-18	16,812	18	110	20	65	16	12	12	4
25460-NPT1/2	NPT 1/2-14	20,947	14	125	26	78	18	14,5	15	4
25460-NPT3/4	NPT 3/4-14	26,292	14	140	26	75	22	18	18	5
Parallel shank 25460-NPT1	NPT 1"-11.5	32,914	11,5	150	31	81	28	22	22	5

Taper ratio 1:16

C1

WALTER SELECT

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

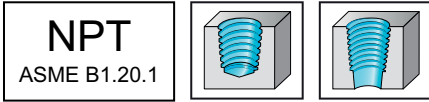
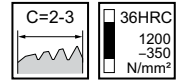
HSS-E machine taps

mm

Paradur Inox®

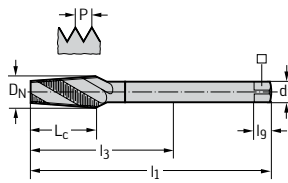


- For long-chipping materials



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

PWZ-NORM



Designation THL	Designation VAP	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
	25567-NPT1/16	NPT 1/16-27	7,717	27	80	14	56	8	6,2	6	3
2556702-NPT1/8	25567-NPT1/8	NPT 1/8-27	10,065	27	90	14	61	11	9	9	4
2556702-NPT1/4	25567-NPT1/4	NPT 1/4-18	13,372	18	100	20	56	14	11	11	4
2556702-NPT3/8	25567-NPT3/8	NPT 3/8-18	16,812	18	110	20	65	16	12	12	5
2556702-NPT1/2	25567-NPT1/2	NPT 1/2-14	20,947	14	125	26	78	18	14,5	15	5
	25567-NPT3/4	NPT 3/4-14	26,292	14	140	26	75	22	18	18	5
Parallel shank	25567-NPT1	NPT 1"-11.5	32,914	11,5	150	31	81	28	22	22	5

Taper ratio 1:16

C1

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

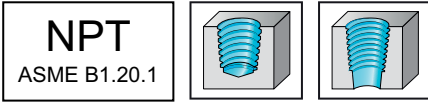
HSS-E machine taps

mm

Paradur Inox® 40

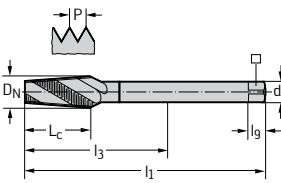


- For long-chipping materials



	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	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N
255630-NPT1/8	NPT 1/8-27	10,065	27	90	14	61	11	9	9	3
255630-NPT1/4	NPT 1/4-18	13,372	18	100	20	56	14	11	11	3
255630-NPT3/8	NPT 3/8-18	16,812	18	110	20	65	16	12	12	4
255630-NPT1/2	NPT 1/2-14	20,947	14	125	26	78	18	14,5	15	4

Parallel shank

Taper ratio 1:16

C1

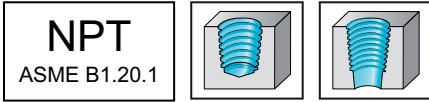
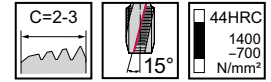
WALTER SELECT

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

HSS-E machine taps

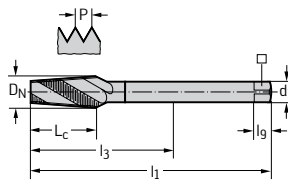
mm

Paradur® Ni



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

PWZ-NORM



Parallel shank

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	□ mm	l _g mm	N
2546706-NPT1/16	25467-NPT1/16	NPT 1/16-27	7,717	27	80	14	56	8	6,2	6	3
2546706-NPT1/8	25467-NPT1/8	NPT 1/8-27	10,065	27	90	14	61	11	9	9	4
2546706-NPT1/4	25467-NPT1/4	NPT 1/4-18	13,372	18	100	20	56	14	11	11	4
2546706-NPT3/8	25467-NPT3/8	NPT 3/8-18	16,812	18	110	20	65	16	12	12	5
2546706-NPT1/2	25467-NPT1/2	NPT 1/2-14	20,947	14	125	26	78	18	14,5	15	5
2546706-NPT3/4	25467-NPT3/4	NPT 3/4-14	26,292	14	140	26	75	22	18	18	5
2546706-NPT1	25467-NPT1	NPT 1"-11.5	32,914	11,5	150	31	81	28	22	22	5

Taper ratio 1:16

C1

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

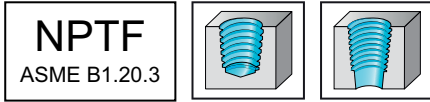
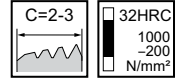
HSS-E machine taps

mm

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	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
	26167-NPTF1/16	NPTF 1/16-27	7,635	27	80	14	56	8	6,2	6	3
	26167-NPTF1/8	NPTF 1/8-27	9,982	27	90	14	61	11	9	9	3
	26167-NPTF1/4	NPTF 1/4-18	13,313	18	100	20	56	14	11	11	3
	26167-NPTF3/8	NPTF 3/8-18	16,752	18	110	20	65	16	12	12	4
	26167-NPTF1/2	NPTF 1/2-14	20,921	14	125	26	78	18	14,5	15	4
	26167-NPTF3/4	NPTF 3/4-14	26,267	14	140	26	75	22	18	18	5
	26167-NPTF1	NPTF 1"-11.5	32,839	11,5	150	31	81	28	22	22	5

Taper ratio 1:16

C1

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

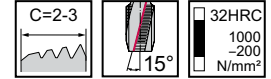
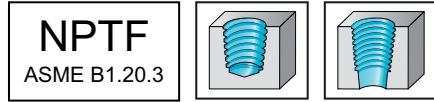
HSS-E machine taps

mm

Paradur® N



- For long-chipping materials



	P	M	K	N	S	H	O
VAP	●●		●●	●●			

PWZ-NORM	Designation	D_N -P	D_N	Threads per	l_1	L_c	l_3	d_1	l_9	N	
	VAP		mm	inch	mm	mm	mm	h9 mm	mm		
	26460-NPTF1/16	NPTF 1/16-27	7,635	27	80	14	56	8	6,2	6	3
	26460-NPTF1/8	NPTF 1/8-27	9,982	27	90	14	61	11	9	9	3
	26460-NPTF1/4	NPTF 1/4-18	13,313	18	100	20	56	14	11	11	3
	26460-NPTF3/8	NPTF 3/8-18	16,752	18	110	20	65	16	12	12	4
	26460-NPTF1/2	NPTF 1/2-14	20,921	14	125	26	78	18	14,5	15	4
	26460-NPTF3/4	NPTF 3/4-14	26,267	14	140	26	75	22	18	18	5

Parallel shank

Taper ratio 1:16

C1

WALTER SELECT ●● Primary application ● Other application

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

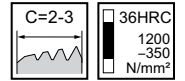
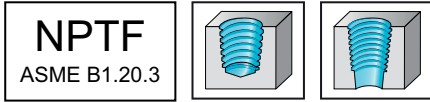
HSS-E machine taps

mm

Paradur Inox®



– For long-chipping materials



	P	M	K	N	S	H	O
VAP	●●	●●	●				

PWZ-NORM	Designation	D_N -P	D_N	Threads per	l_1	L_c	l_3	d_1	l_9	N
	VAP		mm	inch	mm	mm	mm	mm	mm	
	26567-NPTF1/16	NPTF 1/16-27	7,635	27	80	14	56	8	6,2	3
	26567-NPTF1/8	NPTF 1/8-27	9,982	27	90	14	61	11	9	4
	26567-NPTF1/4	NPTF 1/4-18	13,313	18	100	20	56	14	11	4
	26567-NPTF1/2	NPTF 1/2-14	20,921	14	125	26	78	18	14,5	5

Parallel shank

Taper ratio 1:16

C1

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

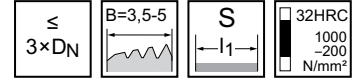
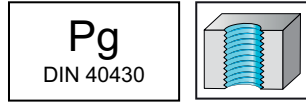
HSS-E taps, short

mm

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	□ 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

Parallel shank

C1

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

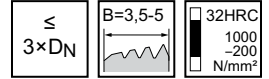
HSS-E machine taps

mm

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	□ mm	l ₉ 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	□ mm	l ₉ 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

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

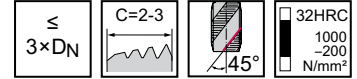
HSS-E machine taps

mm

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	□ 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

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	□ 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

C1

WALTER SELECT

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

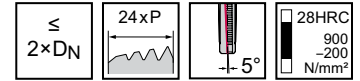
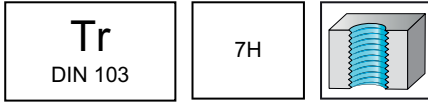
HSS-E trapezoidal taps

mm

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	□ mm	l ₉ 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

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

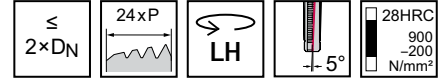
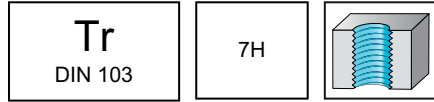
HSS-E trapezoidal taps

mm

TMB



- Right-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	□ 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

C1

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

HSS-E machine taps

mm

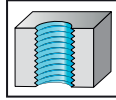
Prototex® X-pert P



– For long-chipping materials

EgM
DIN 8140

6H mod



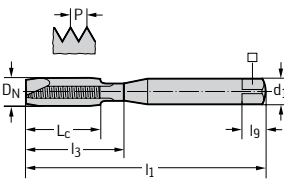
≤
3×DN

B=3,5-5

32HRC
1000
-200
N/mm²

	P	M	K	N	S	H	O
uncoated	●●			●			●

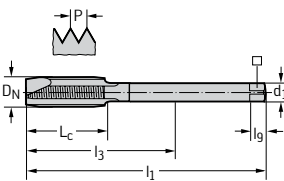
DIN 40435



Parallel shank

Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ 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



Parallel shank

Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ 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

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

●● Primary application ● Other application
machining conditions

HSS-E machine taps

mm

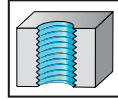
Prototex® X-pert M



- For long-chipping materials

EgM
DIN 8140

6H mod



$\leq 3 \times D_N$
B=3,5-5
36HRC

1200
-700
N/mm²

	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	□ mm	l _g mm	N
<p>Parallel shank</p>	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

mm

Prototex® TiNi



- Recommended with oil
- For long-chipping materials

≤
2×DN

B=3,5-5

44HRC
1400
-700
N/mm²

EgM
LN 9499

ISO1/4H

	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	□ 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

Parallel shank

EGM 4: Without reduced neck after the thread

C1

**WALTER
SELECT**

●● Primary application ● Other application

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

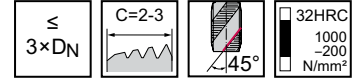
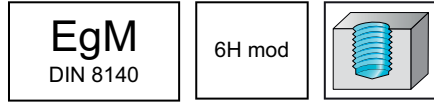
HSS-E machine taps

mm

Paradur® X-pert P



- 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	□ mm	l _g 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	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g 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

C1

WALTER SELECT ●● Primary application ● Other application

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

HSS-E machine taps

mm

Paradur® X-pert M



– For long-chipping materials

EgM
DIN 8140

6H mod

$\leq 2,5 \times D_N$

$C=2-3$

$\angle 40^\circ$

36HRC
1200
-700
N/mm²

	P	M	K	N	S	H	O
VAP	●	●●					

DIN 40435	Designation VAP	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ 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	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ 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

mm

Paradur® X-pert N



- For long-chipping materials

EgM
DIN 8140

6H mod

$\leq 3 \times D_N$

C=2-3

14HRC
700
-200
N/mm²

	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	□ mm	l _g mm	N
<p>Parallel shank</p>	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	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	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

C1

WALTER SELECT

●● Primary application ● Other application

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

HSS-E PM machine taps

mm

Paradur® Ni



- For long-chipping materials

EgM
LN 9499

ISO1/4H

$\leq 1,5 \times D_N$

$C=2-3$

$\angle 25^\circ$

44HRC
1400
-700
N/mm²

	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	□ mm	l _g 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

Parallel shank

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

mm

Paradur® Ti



- Recommended with oil
- For long-chipping materials


EgM
LN 9499

ISO1/4H



$\leq 2 \times D_N$

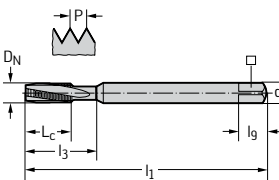
C=2-3



15°

44HRC
1400
-700
N/mm²

	P	M	K	N	S	H	O
uncoated	●●			●	●●		

~DIN 40435	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ 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

Parallel shank

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

mm

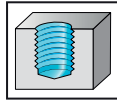
Paradur® X-pert P



– For long-chipping materials

EgMF
DIN 8140

6H mod



$\leq 3 \times DN$

$C=2-3$

$\angle 45^\circ$

32HRC
1000
-200
N/mm²

	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	\square mm	l_9 mm	N
<p>Parallel shank</p>	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

mm

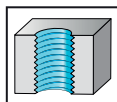
Prototex® X-pert P



- For long-chipping materials

EgUNC
NASM 33537

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		Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
		P223009-EGUNC6	EGUNC #6-32	4,536	70	13	25	6	4,9	8	3
		P223009-EGUNC8	EGUNC #8-32	5,197	80	15	30	6	4,9	8	3
		P223009-EGUNC10	EGUNC #10-24	6,201	80	15	30	7	5,5	8	3
		P223009-EGUNC1/4	EGUNC 1/4-20	8	90	18	35	8	6,2	9	3

Parallel shank

C1

WALTER
SELECT

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

HSS-E PM machine taps

mm

Prototex® TiNi



- Recommended with oil
- For long-chipping materials

≤
2×DN

B=3,5-5

44HRC
1400
-700
N/mm²

EgUNC
NASM 33537

3B

	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	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
	222079-EGUNC4	EGUNC #4-40	3,67	63	13	13	4,5	3,4	6	3
	222079-EGUNC6	EGUNC #6-32	4,536	70	16	16	6	4,9	8	3
	222079-EGUNC8	EGUNC #8-32	5,197	80	15	23	6	4,9	8	3

Parallel shank

≤ 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

mm

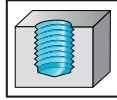
Paradur® X-pert P



- For long-chipping materials

EgUNC
NASM 33537

3B



≤
3×DN

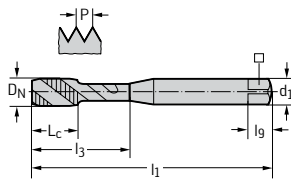
C=2-3

45°

32HRC
1000
-200
N/mm²

	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 2184-1



Parallel shank

Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
P225099-EGUNC6	EGUNC #6-32	4,536	70	8	25	6	4,9	8	3
P225099-EGUNC8	EGUNC #8-32	5,197	80	10	30	6	4,9	8	3
P225099-EGUNC10	EGUNC #10-24	6,201	80	10	30	7	5,5	8	3
P225099-EGUNC1/4	EGUNC 1/4-20	8	90	12	35	8	6,2	9	3

C1

HSS-E machine taps

mm

Paradur® X-pert M



– For long-chipping materials

EgUNC
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	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	M225049-EGUNC4	EGUNC #4-40		3,67	63	7	21	4,5	3,4	6	3
	M225049-EGUNC6	EGUNC #6-32		4,536	70	8	25	6	4,9	8	3
	M225049-EGUNC8	EGUNC #8-32		5,197	80	10	30	6	4,9	8	3
	M225049-EGUNC10	EGUNC #10-24		6,201	80	10	30	7	5,5	8	3
	M225049-EGUNC1/4	EGUNC 1/4-20		8	90	12	35	8	6,2	9	3

Parallel shank

DIN 2184-1		Designation VAP	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	M225549-EGUNC5/16	EGUNC 5/16-18		9,771	100	15	77	7	5,5	8	3
	M225549-EGUNC3/8	EGUNC 3/8-16		11,587	100	13	73	9	7	10	3
	M225549-EGUNC1/2	EGUNC 1/2-13		15,238	110	20	68	12	9	12	4

Parallel shank

C1

WALTER SELECT

●● Primary application ● Other application

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

HSS-E machine taps

mm

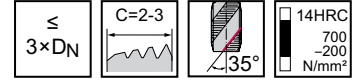
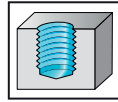
Paradur® X-pert N



- For long-chipping materials

EgUNC
NASM 33537

3B



	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	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	N225069-EGUNC6	EGUNC #6-32	4,536	70	8	25	6	4,9	8	2
	N225069-EGUNC8	EGUNC #8-32	5,197	80	10	30	6	4,9	8	2
	N225069-EGUNC10	EGUNC #10-24	6,201	80	10	30	7	5,5	8	2
	N225069-EGUNC1/4	EGUNC 1/4-20	8	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

mm

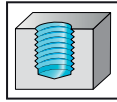
Paradur® Ti



- Recommended with oil
- For long-chipping materials

EgUNC
NASM 33537

3B



≤
2×DN

C=2-3

15°

44HRC
1400
-700
N/mm²

	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	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
		224069-EGUNC4	EGUNC #4-40	3,67	63	13	13	4,5	3,4	6	3
		224069-EGUNC6	EGUNC #6-32	4,536	70	16	16	6	4,9	8	3
		224069-EGUNC8	EGUNC #8-32	5,197	80	15	23	6	4,9	8	3

Parallel shank

≤ EGUNC 6: Without reduced neck after the thread

C1

**WALTER
SELECT**

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

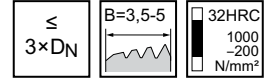
HSS-E machine taps

mm

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	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	P233009-EGUNF6	EGUNF #6-40	4,33	70	13	25	6	4,9	8	3
	P233009-EGUNF10	EGUNF #10-32	5,857	80	15	30	6	4,9	8	3
	P233009-EGUNF8	EGUNF #8-36	5,083	80	15	30	6	4,9	8	3
	P233009-EGUNF1/4	EGUNF 1/4-28	7,528	90	18	35	8	6,2	9	3

DIN 2184-1	Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	P233509-EGUNF5/16	EGUNF 5/16-24	9,313	90	20	67	7	5,5	8	3
	P233509-EGUNF3/8	EGUNF 3/8-24	10,9	90	20	66	8	6,2	9	3
	P233509-EGUNF7/16	EGUNF 7/16-20	12,763	100	21	73	9	7	10	4
	P233509-EGUNF1/2	EGUNF 1/2-20	14,35	100	21	71	11	9	12	4

C1

WALTER SELECT ●● Primary application ● Other application

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

HSS-E machine taps

mm

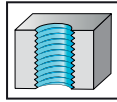
Prototex® X-pert M



- For long-chipping materials

EgUNF
NASM 33537

3B



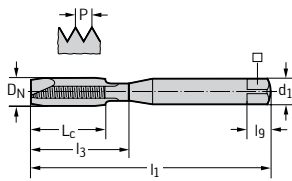
$\leq 3 \times D_N$

$B=3,5-5$

36HRC
1200
-700
N/mm²

	P	M	K	N	S	H	O
VAP	●	●●					

DIN 2184-1



Designation VAP	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
M233009-EGUNF10	EGUNF #10-32	5,857	80	15	30	6	4,9	8	3
M233009-EGUNF8	EGUNF #8-36	5,083	80	15	30	6	4,9	8	3
M233009-EGUNF1/4	EGUNF 1/4-28	7,528	90	18	35	8	6,2	9	3

Parallel shank

C1

**WALTER
SELECT**

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

HSS-E PM machine taps

mm

Prototex® TiNi



- Recommended with oil
- For long-chipping materials

EgUNF
NASM 33537

3B

$\leq 2 \times D_N$

B=3,5-5

44HRC
1400-700
N/mm²

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

~DIN 2184-1	Designation	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	uncoated									
	232079-EGUNF10	EGUNF #10-32	5,857	80	15	23	6	4,9	8	3
	232079-EGUNF1/4	EGUNF 1/4-28	7,528	90	18	29,5	8	6,2	9	3
	232079-EGUNF5/16	EGUNF 5/16-24	9,313	100	20	33,5	10	8	11	3

Parallel shank

DIN 2184-1	Designation	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	uncoated									
	232579-EGUNF3/8	EGUNF 3/8-24	10,9	100	20	76	8	6,2	9	3

Parallel shank

C1

WALTER SELECT

●● Primary application ● Other application

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

HSS-E machine taps

mm

Paradur® X-pert P



– For long-chipping materials

EgUNF
NASM 33537

3B

$\leq 3 \times D_N$

$C=2-3$

$\angle 45^\circ$

32HRC
1000
-200
N/mm²

	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	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	P235099-EGUNF6	EGUNF #6-40	4,33	70	8	25	6	4,9	8	3
	P235099-EGUNF8	EGUNF #8-36	5,083	80	10	30	6	4,9	8	3
	P235099-EGUNF10	EGUNF #10-32	5,857	80	10	30	6	4,9	8	3
	P235099-EGUNF1/4	EGUNF 1/4-28	7,528	90	12	35	8	6,2	9	3

DIN 2184-1	Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	P235599-EGUNF5/16	EGUNF 5/16-24	9,313	90	12	7	5,5	8	3
	P235599-EGUNF3/8	EGUNF 3/8-24	10,9	90	15	8	6,2	9	3
	P235599-EGUNF7/16	EGUNF 7/16-20	12,763	100	13	9	7	10	4
	P235599-EGUNF1/2	EGUNF 1/2-20	14,35	100	15	11	9	12	4

C1

WALTER SELECT

●● Primary application ● Other application

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

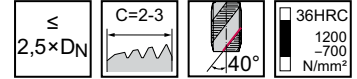
HSS-E machine taps

mm

Paradur® X-pert M



- For long-chipping materials



	P	M	K	N	S	H	O
VAP	●	●●					

DIN 2184-1		Designation VAP	D_N -P	D_N mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_g mm	N
	M235049-EGUNF10	EGUNF #10-32		5,857	80	10	30	6	4,9	8	3
	M235049-EGUNF1/4	EGUNF 1/4-28		7,528	90	12	35	8	6,2	9	3

Parallel shank

C1

WALTER SELECT ●● Primary application ● Other application

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

HSS-E machine taps

mm

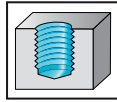
Paradur® X-pert N



- For long-chipping materials

EgUNF
NASM 33537

3B



≤
3×DN

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	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	N235069-EGUNF10	EGUNF #10-32	5,857	80	10	30	6	4,9	8	2	
	N235069-EGUNF1/4	EGUNF 1/4-28	7,528	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 PM machine taps

mm

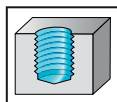
Paradur® Ni



- For long-chipping materials

EgUNF
NASM 33537

3B



$\leq 1,5 \times D_N$

$C=2-3$

$\angle 25^\circ$

44HRC
1400-700
N/mm²

	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	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
		234079-EGUNF10	EGUNF #10-32	5,857	80	15	23	6	4,9	8
	234079-EGUNF1/4	EGUNF 1/4-28	7,528	90	18	29,5	8	6,2	9	3
	234079-EGUNF5/16	EGUNF 5/16-24	9,313	100	20	33,5	10	8	11	4

Parallel shank

C1

DIN 2184-1	Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
		234579-EGUNF3/8	EGUNF 3/8-24	10,9	100	20	76	8	6,2	9

Parallel shank

WALTER
SELECT

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

HSS-E PM machine taps

mm

Paradur® Ti



- Recommended with oil
- For long-chipping materials

≤
2×DN

C=2-3

15°

44HRC
1400-700
N/mm²

EgUNF
NASM 33537

3B

	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	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	234069-EGUNF10	EGUNF #10-32	5,857	80	15	23	6	4,9	8	3
	234069-EGUNF1/4	EGUNF 1/4-28	7,528	90	18	29,5	8	6,2	9	3
	234069-EGUNF5/16	EGUNF 5/16-24	9,313	100	20	33,5	10	8	11	3

DIN 2184-1	Designation uncoated	D _N -P	D _N mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	234569-EGUNF3/8	EGUNF 3/8-24	10,9	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 x D _N	2 x D _N	2 x D _N	3 x D _N	1,5 x 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					
Indexable inserts basic shape					
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	VHM	VHM	VHM	VHM	VHM
P Steel	●●				●●
M Stainless steel					
K Cast iron	●●			●	●●
N NF metals				●●	●●
S Materials with difficult cutting properties		●	●	●	
H Hard materials		●●	●●	●	
O Other				●●	●
Page in catalogue	C 280	C 288	C 289	C 286	C 282
QR code					
www.walter-tools.com/woc/	prototex-hsc	TC388	TC389	paradur-hs	paradur-n

Solid carbide taps

Machining					
-----------	--	--	--	--	--

Thread depth	2 x D _N	3 x D _N	3 x D _N	3,5 x D _N	3,5 x D _N
--------------	--------------------	--------------------	--------------------	----------------------	----------------------



Designation	Paradur® HSC	Paradur® Engine	Paradur® HS	Paradur® GG	Paradur® N
-------------	--------------	-----------------	-------------	-------------	------------

Thread type					
M	✓	✓	✓	✓	✓
MF	✓	✓		✓	
UNC / UNF / UN-8					
G / Rc / Rp					
MJ / UNJC / UNJF					
NPT / NPTF					
Pg / BSW / Tr					
Indexable inserts basic shape					

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	VHM	VHM	VHM	VHM	VHM
-----------------------	-----	-----	-----	-----	-----

P Steel	●●				
M Stainless steel					
K Cast iron	●●	●●	●	●●	●●
N NF metals		●●	●●	●	●●
S Materials with difficult cutting properties			●		
H Hard materials	●●		●		
O Other			●●	●	●

Page in catalogue	C 281	C 285	C 287	C 284	C 283
-------------------	-------	-------	-------	-------	-------

QR code					
---------	--	--	--	--	--

www.walter-tools.com/woc/	paradur-hsc	paradur-engine	paradur-hs	paradur-gg	paradur-n
---------------------------	-------------	----------------	------------	------------	-----------

Solid carbide machine taps

mm

Prototex® HSC



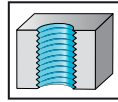
- For long-chipping materials
- Cooling grooves on the shank

$\leq 2 \times D_N$
B=3,5-5
44HRC

1400
-850
N/mm²

M
DIN 13

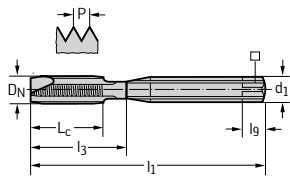
6HX



TICN

P	M	K	N	S	H	O
●●		●●				

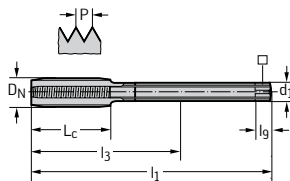
DIN 371



Parallel shank

Designation TICN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h6 mm	\square mm	l_9 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



Parallel shank

Designation TICN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h6 mm	\square mm	l_9 mm	N
8026006-M12	M 12	1,75	110	23	83	9	7	10	5

C1

WALTER SELECT

●● Primary application
● Other application

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

Solid carbide machine taps

mm

Paradur® HSC



– For long- and short-chipping materials

M
DIN 13

6HX

$\leq 2 \times D_N$

$C=2-3$

15°

$\square 55\text{HRC}$
 $\square 25\text{HRC}$

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

DIN 371	Designation TICN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h6 mm	\square mm	l_g mm	N
<p>Parallel shank</p>	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	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h6 mm	\square mm	l_g mm	N
<p>Parallel shank</p>	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

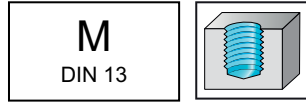
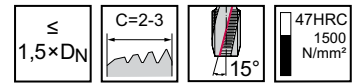
Solid carbide machine taps

mm

Paradur® N



- For long- and short-chipping materials



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

~DIN 371	Designation	Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h6 mm	□ mm	l_9 mm	N
	TICN	uncoated									
<p>Parallel shank</p>	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

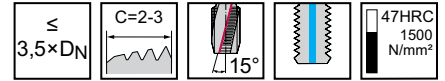
Solid carbide machine taps

mm

Paradur® N

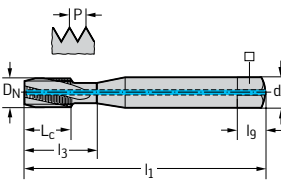


– For long- and short-chipping materials



	P	M	K	N	S	H	O
uncoated			●●	●●			●

DIN 371

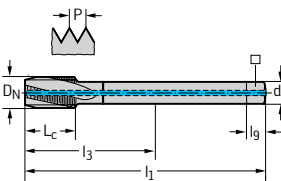


Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l _g mm	N
804101-M5	M 5	0,8	70	16	16	6	4,9	8	3
804101-M6	M 6	1	80	19	30	6	4,9	8	3
804101-M8	M 8	1,25	90	22	35	8	6,2	9	3
804101-M10	M 10	1,5	100	24	39	10	8	11	3

Parallel shank

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	□ mm	l _g mm	N
804601-M12	M 12	1,75	110	23	83	9	7	10	3

Parallel shank

C1

WALTER SELECT ●● Primary application ● Other application

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

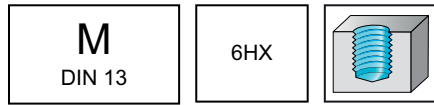
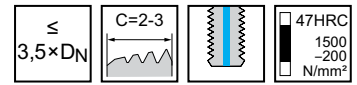
Solid carbide machine taps

mm

Paradur® GG



- For short-chipping materials



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

DIN 371	Designation	Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l _g mm	N
	TAFT	uncoated									
	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

Parallel shank

M 5: Without reduced neck after the thread

C1

WALTER SELECT ●● Primary application ● Other application

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

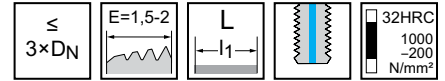
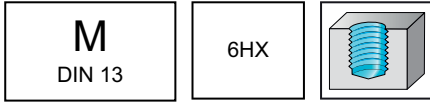
Solid carbide machine taps

mm

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	\square mm	l_g 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

Parallel shank

~DIN 376 L		Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h6 mm	\square mm	l_g mm	N
		8036310-M12	M 12	1,75	140	23	113	9	7	10	4

Parallel shank

WALTER SELECT

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

●● Primary application ● Other application

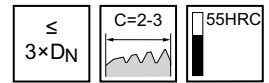
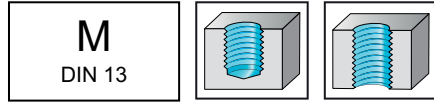
Solid carbide machine taps

mm

Paradur® HS



- For short-chipping materials



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

~DIN 371	Designation	Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l ₉ mm	N
	TICN	uncoated									
<p>Parallel shank</p>	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

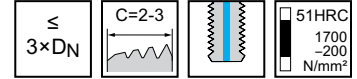
Solid carbide machine taps

mm

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	□ 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

Parallel shank

M 5: Without reduced neck after the thread

C1

WALTER SELECT ●● Primary application ● Other application

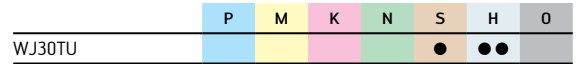
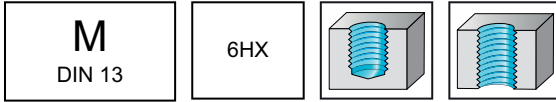
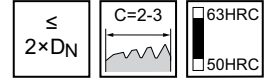
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide machine taps

TC388 Supreme

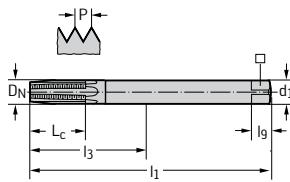


- Taps for hardened materials
- Drill core hole at upper tolerance end



~DIN 371

Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h6 mm	\square mm	l_9 mm	N	WJ30TU
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	☺



Parallel shank

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

$\leq 2 \times D_N$

$D=3,5-5$

☑ 65HRC
☐ 55HRC

M
DIN 13

6HX

WE10TU

P

M

K

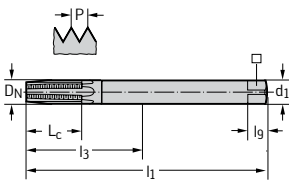
N

S

H

O

~DIN 371											WE10TU
Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h6 mm	□ 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	☺	



Parallel shank

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

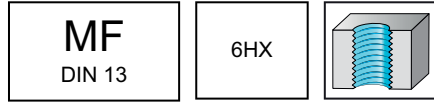
Solid carbide machine taps

mm

Prototex® HSC



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



$\leq 2 \times D_N$
 $B=3,5-5$
 44HRC
 1400-850 N/mm²

TICN	P	M	K	N	S	H	O
	●●		●●				

DIN 371	Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ 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	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ 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

C1

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

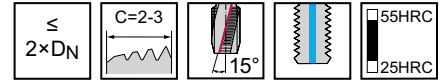
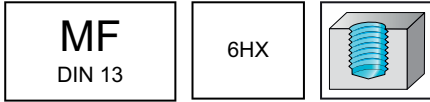
Solid carbide machine taps

mm

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	□ mm	l _g 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

Parallel shank

DIN 374	Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l _g 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

Parallel shank

**WALTER
SELECT**

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

C1

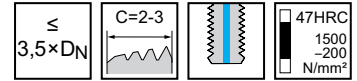
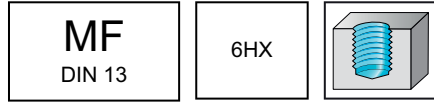
Solid carbide machine taps

mm

Paradur® GG



- For short-chipping materials



	P	M	K	N	S	H	O
TAFT			●●	●			●

DIN 374	Designation TAFT	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h6 mm	□ 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

mm

Paradur® Engine



- Suitable coating according to requirements
- For short-chipping materials

MF
DIN 13

6HX

\leq
3×DN

E=1,5-2

L
-l₁-

32HRC
1000
-200
N/mm²

	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	□ mm	l ₉ mm	N
<p>Parallel shank</p>	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

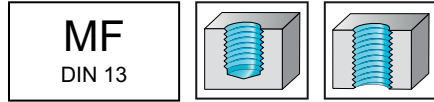
Solid carbide machine taps

mm

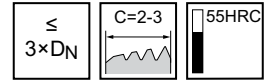
Paradur® HS



- For short-chipping materials



MF
DIN 13



	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	□ mm	l ₉ 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

Parallel shank

Without reduced neck after the thread

C1

WALTER SELECT ●● Primary application ● Other application

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

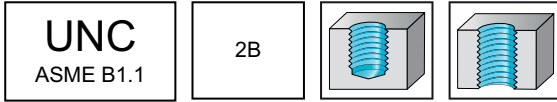
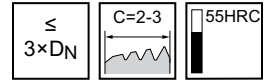
Solid carbide machine taps

mm

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	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l _g mm	N
		8231106-UNC10	UNC #10-24	4,826	70	16	16	6	4,9	8	3
		8231106-UNC1/4	UNC 1/4-20	6,35	80	20	20	7	5,5	8	3
		8231106-UNC5/16	UNC 5/16-18	7,938	90	25	25	8	6,2	9	3
		8231106-UNC3/8	UNC 3/8-16	9,525	100	30	30	10	8	11	3

Parallel shank

Without reduced neck after the thread

C1

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

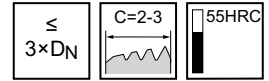
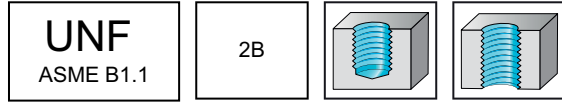
Solid carbide machine taps

mm

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	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l _g mm	N
	8331106-UNF10	UNF #10-32	4,826	70	16	47	6	4,9	8	3
	8331106-UNF1/4	UNF 1/4-28	6,35	80	20	57	7	5,5	8	3
	8331106-UNF3/8	UNF 3/8-24	9,525	90	30	62	10	8	11	3

Parallel shank

Without reduced neck after the thread

C1

Solid carbide machine taps

TC388 Supreme

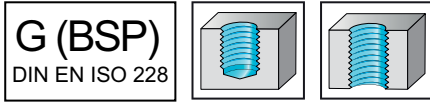


- Taps for hardened materials
- Drill core hole at upper tolerance end

$\leq 2 \times D_N$

$C=2-3$

63HRC
 50HRC



	P	M	K	N	S	H	O
WJ30TU					●	●●	

~DIN 371												
	Designation	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l ₉ mm	N	WJ30TU
	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	☺

Parallel shank

Without reduced neck after the thread
 Ordering example for the grade WJ30TU: TC388-G1/4-C0-WJ30TU

C1

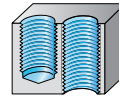
WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

HSS-E and solid carbide thread formers

Machining



Thread depth

 2 x D_N

 3 x D_N

 3 x D_N

 3 x D_N

 3 x 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

Indexable inserts basic shape

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

Page in catalogue

C 331

C 332

C 302

C 310

C 323

QR code


www.walter-tools.com/woc/
[protodyn-eco-lm](http://www.walter-tools.com/woc/protodyn-eco-lm)
[protodyn-c](http://www.walter-tools.com/woc/protodyn-c)
[TC410](http://www.walter-tools.com/woc/tc410)
[TC420](http://www.walter-tools.com/woc/tc420)
[TC430](http://www.walter-tools.com/woc/tc430)
WALTER SELECT

Primary application Other application

HSS-E and solid carbide thread formers

Machining					
-----------	--	--	--	--	--

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

Indexable inserts basic shape					
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	VHM	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 catalogue	C 337	C 321	C 334	C 336	C 307
-------------------	-------	-------	-------	-------	-------

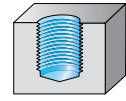
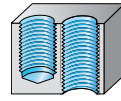
QR code					
---------	--	--	--	--	--

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

Indexable inserts basic shape

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

VHM

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 catalogue

C 315

C 324

C 328

C 338

C 343

QR code


www.walter-tools.com/woc/

TC420

TC430

TC440

TC470

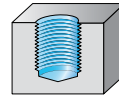
TC410

WALTER SELECT

●● Primary application ● Other application

HSS-E and solid carbide thread formers

Machining



Thread depth	3,5 x D _N	3,5 x D _N	3,5 x D _N	3,5 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				
Indexable inserts basic shape				

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	VHM
-----------------------	----------	----------	-------	-----

P Steel	●●	●●	●	●●
M Stainless steel	●●	●	●●	
K Cast iron	●	●		●
N NF metals	●●	●	●	●
S Materials with difficult cutting properties	●		●	
H Hard materials				
O Other				

Page in catalogue	C 311	C 325	C 329	C 339
-------------------	-------	-------	-------	-------

QR code				
---------	--	--	--	--

www.walter-tools.com/woc/	TC420	TC430	TC440	TC470
--	-------	-------	-------	-------

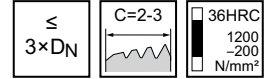
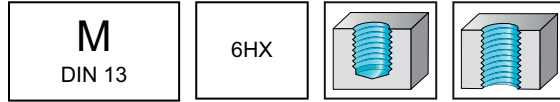
C2

HSS-E machine thread formers

TC410 Advance mm

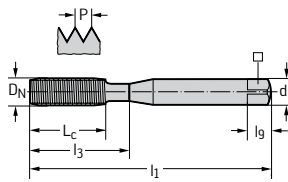


- For long-chipping materials



	P	M	K	N	S	H	O
WY80AD	●●	●	●	●●	●		

DIN 2174

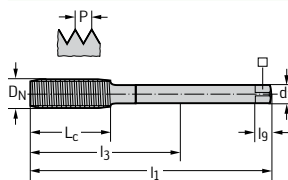


Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AD
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



Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AD
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

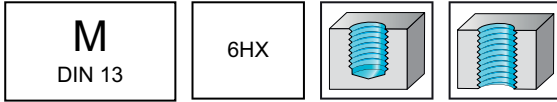
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

HSS-E machine thread formers

TC410 Advance



- For long-chipping materials



≤
3×DN

D=3,5-5

36HRC
1200
-200
N/mm²

	P	M	K	N	S	H	O
WY80AD	●●	●	●	●●	●		

DIN 2174											WY80AD
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ 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

WALTER SELECT

●● Primary application ● Other application

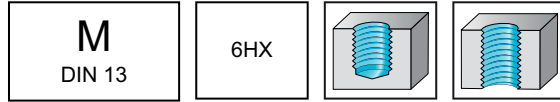
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

HSS-E machine thread formers

TC410 Advance

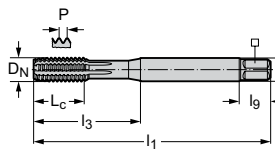


- For long-chipping materials



	P	M	K	N	S	H	O
WY80AD	●●	●●	●	●●	●		

DIN 2174

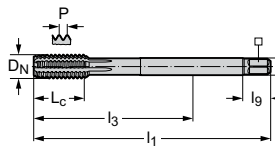


Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N	WY80AD
TC410-M3-CL-	M 3	0,5	56	9	18	3,5	2,7	6	4	☹
TC410-M4-CL-	M 4	0,7	63	12	21	4,5	3,4	6	5	☹
TC410-M5-CL-	M 5	0,8	70	13	25	6	4,9	8	5	☹
TC410-M6-CL-	M 6	1	80	15	30	6	4,9	8	5	☹
TC410-M8-CL-	M 8	1,25	90	18	35	8	6,2	9	5	☹
TC410-M10-CL-	M 10	1,5	100	20	39	10	8	11	6	☹

Parallel shank

Ordering example for the grade WY80AD: TC410-M10-CL-WY80AD

DIN 2174



Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N	WY80AD
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	☹

Parallel shank

Ordering example for the grade WY80AD: TC410-M12-LL-WY80AD

C2

WALTER SELECT ●● Primary application ● Other application

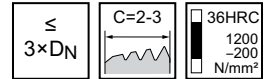
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

HSS-E machine thread formers

TC410 Advance mm



- For long-chipping materials



	P	M	K	N	S	H	O
WY80AD	●●	●	●	●●	●		

DIN 2174		Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AD
<p>Parallel shank</p>		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	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AD
<p>Parallel shank</p>		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

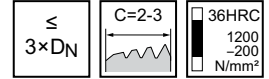
C2

HSS-E machine thread formers

TC410 Advance

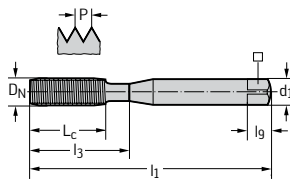


- For long-chipping materials



	P	M	K	N	S	H	O
WY80AD	●●	●	●	●●	●		

DIN 2174



Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AD
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	☹

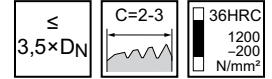
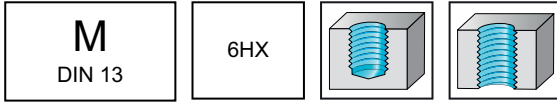
Ordering example for the grade WY80AD: TC410-M10-F0-WY80AD

HSS-E machine thread formers

TC410 Advance mm

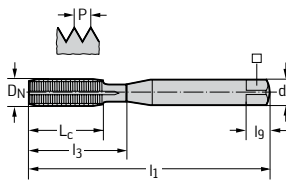


- For long-chipping materials



	P	M	K	N	S	H	O
WY80AD	●●	●●	●●	●●	●		

DIN 2174

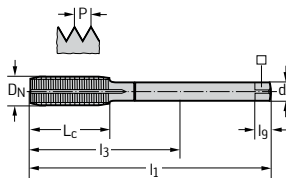


Parallel shank

Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l ₉ mm	N	WY80AD
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



Parallel shank

Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l ₉ mm	N	WY80AD
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

C2

WALTER SELECT

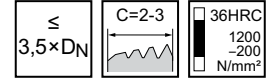
●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☼ machining conditions

HSS-E machine thread formers

TC410 Advance

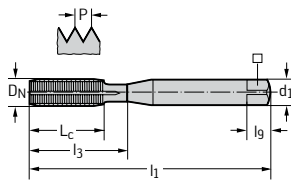


- For long-chipping materials



	P	M	K	N	S	H	O
WY80AD	●●	●●	●	●●	●		

DIN 2174

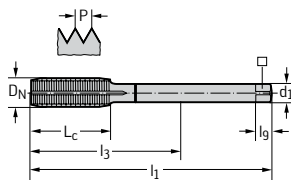


Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l ₉ mm	N	WY80AD
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



Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l ₉ mm	N	WY80AD
TC410-M12-N6-	M 12	1,75	110	23	83	9	7	10	6	☹

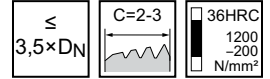
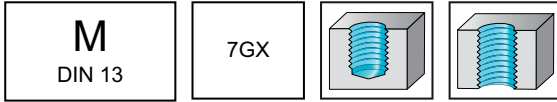
Ordering example for the grade WY80AD: TC410-M12-N6-WY80AD

HSS-E machine thread formers

TC410 Advance mm



– For long-chipping materials



	P	M	K	N	S	H	O
WY80AD	●●	●●	●●	●●	●		

DIN 2174		Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l ₉ mm	N	WY80AD
<p>Parallel shank</p>		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	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l ₉ mm	N	WY80AD
<p>Parallel shank</p>		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

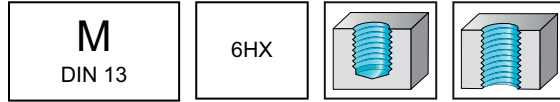
C2

HSS-E-PM machine thread formers

TC420 Supreme

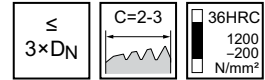


- For long-chipping materials



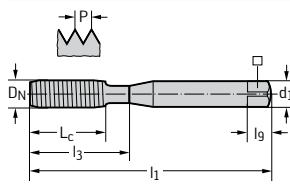
M
DIN 13

6HX



	P	M	K	N	S	H	O
WW60AD	●●	●	●	●●	●		
WW60BA	●●	●	●	●●	●		

DIN 2174

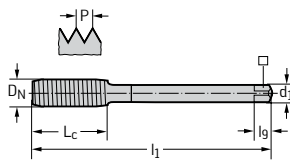


Parallel shank

Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA
TC420-M2-C0-	M 2	0,4	45	4	11	2,8	2,1	5	3	●●	●●
TC420-M2.5-C0-	M 2.5	0,45	50	4	14	2,8	2,1	5	3	●●	●●
TC420-M3-C0-	M 3	0,5	56	6	18	3,5	2,7	6	4	●●	●●
TC420-M3.5-C0-	M 3.5	0,6	56	7	20	4	3	6	4	●●	●●
TC420-M4-C0-	M 4	0,7	63	7	21	4,5	3,4	6	5	●●	●●
TC420-M5-C0-	M 5	0,8	70	8	25	6	4,9	8	5	●●	●●
TC420-M6-C0-	M 6	1	80	10	30	6	4,9	8	5	●●	●●
TC420-M8-C0-	M 8	1,25	90	12	35	8	6,2	9	5	●●	●●
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



Parallel shank

Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA
TC420-M12-L0-	M 12	1,75	110	16	83	9	7	10	6	●●	●●
TC420-M14-L0-	M 14	2	110	20	81	11	9	12	6	●●	●●
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	●●	

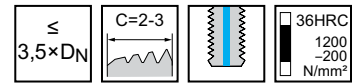
Ordering example for the grade WW60AD: TC420-M12-L0-WW60AD

HSS-E-PM machine thread formers

TC420 Supreme

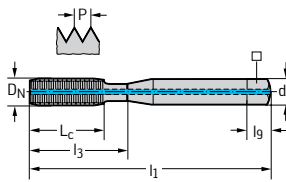


- For long-chipping materials



	P	M	K	N	S	H	O
WW60AD	●●	●●	●	●●	●		
WW60BA	●●	●●	●	●●	●		

DIN 2174

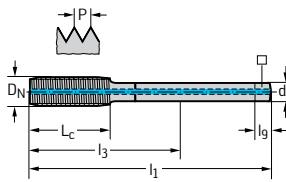


Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N	WW60AD	WW60BA
TC420-M5-C1-	M 5	0,8	70	8	25	6	4,9	8	5	●●	●●
TC420-M6-C1-	M 6	1	80	10	30	6	4,9	8	5	●●	●●
TC420-M8-C1-	M 8	1,25	90	12	35	8	6,2	9	5	●●	●●
TC420-M10-C1-	M 10	1,5	100	15	39	10	8	11	6	●●	●●

Parallel shank

Ordering example for the grade WW60AD: TC420-M10-C1-WW60AD

DIN 2174



Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N	WW60AD	WW60BA
TC420-M12-L1-	M 12	1,75	110	16	83	9	7	10	6	●●	●●
TC420-M14-L1-	M 14	2	110	20	81	11	9	12	6	●●	●●
TC420-M16-L1-	M 16	2	110	20	68	12	9	12	6	●●	●●

Parallel shank

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

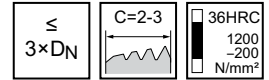


- For long-chipping materials



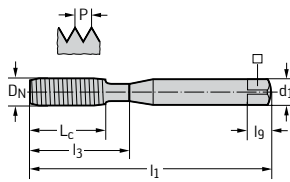
M
DIN 13

6GX



	P	M	K	N	S	H	O
WW60AD	●●	●	●	●●	●		
WW60BA	●●	●	●	●●	●		

DIN 2174

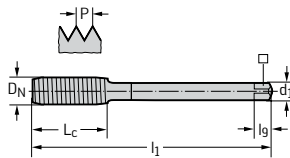


Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA
TC420-M2-E0-	M 2	0,4	45	4	11	2,8	2,1	5	3	●●	●●
TC420-M2.5-E0-	M 2.5	0,45	50	4	14	2,8	2,1	5	3	●●	●●
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-	M 4	0,7	63	7	21	4,5	3,4	6	5	●●	●●
TC420-M5-E0-	M 5	0,8	70	8	25	6	4,9	8	5	●●	●●
TC420-M6-E0-	M 6	1	80	10	30	6	4,9	8	5	●●	●●
TC420-M8-E0-	M 8	1,25	90	12	35	8	6,2	9	5	●●	●●
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



Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD
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

C2

WALTER
SELECT

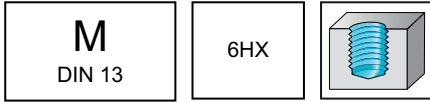
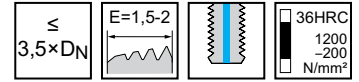
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E-PM machine thread formers

TC420 Supreme

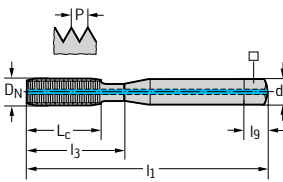


- For long-chipping materials



	P	M	K	N	S	H	O
WW60AD	●●	●●	●●	●●	●		
WW60BA	●●	●●	●●	●●	●		

DIN 2174

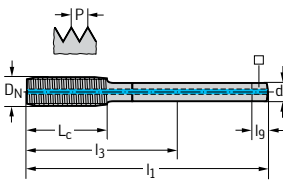


Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WW60AD	WW60BA
TC420-M5-CF-	M 5	0,8	70	8	25	6	4,9	8	5	●●	●●
TC420-M6-CF-	M 6	1	80	10	30	6	4,9	8	5	●●	●●
TC420-M8-CF-	M 8	1,25	90	12	35	8	6,2	9	5	●●	●●
TC420-M10-CF-	M 10	1,5	100	15	39	10	8	11	6	●●	●●

Parallel shank

Ordering example for the grade WW60AD: TC420-M10-CF-WW60AD

DIN 2174



Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WW60AD
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	●●

Parallel shank

Ordering example for the grade WW60AD: TC420-M12-LF-WW60AD

C2

WALTER SELECT ●● Primary application ● Other application

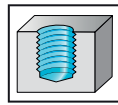
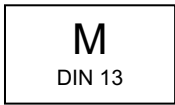
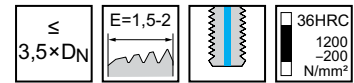
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E-PM machine thread formers

TC420 Supreme

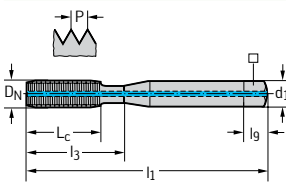


- For long-chipping materials



	P	M	K	N	S	H	O
WW60AD	●●	●●	●●	●●	●		
WW60BA	●●	●●	●●	●●	●		

DIN 2174

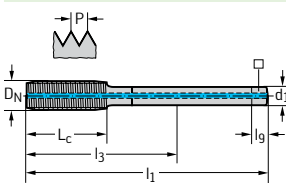


Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WW60AD	WW60BA
TC420-M5-EF-	M 5	0,8	70	8	25	6	4,9	8	5	●●	●●
TC420-M6-EF-	M 6	1	80	10	30	6	4,9	8	5	●●	●●
TC420-M8-EF-	M 8	1,25	90	12	35	8	6,2	9	5	●●	●●
TC420-M10-EF-	M 10	1,5	100	15	39	10	8	11	6	●●	●●

Parallel shank

Ordering example for the grade WW60AD: TC420-M10-EF-WW60AD

DIN 2174



Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WW60AD
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	●●

Parallel shank

Ordering example for the grade WW60AD: TC420-M12-NF-WW60AD

C2

HSS-E-PM machine thread formers

TC420 Supreme



– For long-chipping materials

$\leq 3,5 \times D_N$

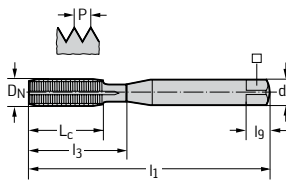
36HRC
 1200
 -200
 N/mm²

M
DIN 13

6HX

	P	M	K	N	S	H	O
WW60AD	●●	●●	●	●●	●		
WW60BA	●●	●●	●	●●	●		

DIN 2174

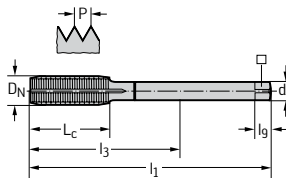


Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WW60AD	WW60BA
TC420-M2-C6-	M 2	0,4	45	4	11	2,8	2,1	5	3	☞	☞
TC420-M2.5-C6-	M 2.5	0,45	50	4	14	2,8	2,1	5	3	☞	☞
TC420-M3-C6-	M 3	0,5	56	6	18	3,5	2,7	6	4	☞	☞
TC420-M3.5-C6-	M 3.5	0,6	56	7	20	4	3	6	4	☞	☞
TC420-M4-C6-	M 4	0,7	63	7	21	4,5	3,4	6	5	☞	☞
TC420-M5-C6-	M 5	0,8	70	8	25	6	4,9	8	5	☞	☞
TC420-M6-C6-	M 6	1	80	10	30	6	4,9	8	5	☞	☞
TC420-M8-C6-	M 8	1,25	90	12	35	8	6,2	9	5	☞	☞
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



Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WW60AD	WW60BA
TC420-M12-L6-	M 12	1,75	110	16	83	9	7	10	6	☞	☞
TC420-M14-L6-	M 14	2	110	20	81	11	9	12	6	☞	☞
TC420-M16-L6-	M 16	2	110	20	68	12	9	12	6	☞	☞
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

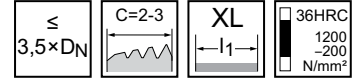
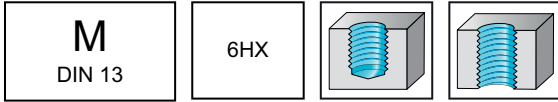
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E-PM machine thread formers

TC420 Supreme

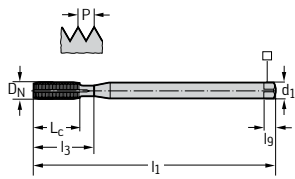


- For long-chipping materials



	P	M	K	N	S	H	O
WW60AD	●●	●●	●●	●●	●		

~DIN 371 XL

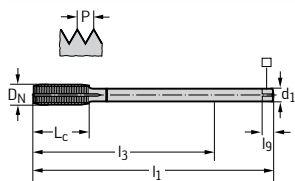


Parallel shank

Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WW60AD
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



Parallel shank

Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WW60AD
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

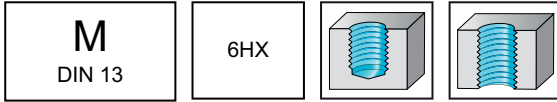
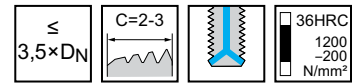
C2

HSS-E-PM machine thread formers

TC420 Supreme

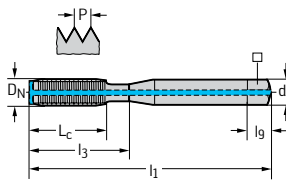


- For long-chipping materials



	P	M	K	N	S	H	O
WW60AD	●●	●●	●	●●	●		
WW60BA	●●	●●	●	●●	●		

DIN 2174

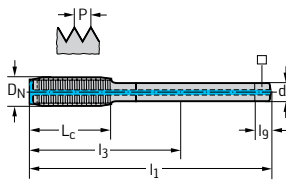


Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA
TC420-M5-C2-	M 5	0,8	70	8	25	6	4,9	8	5	●●	●●
TC420-M6-C2-	M 6	1	80	10	30	6	4,9	8	5	●●	●●
TC420-M8-C2-	M 8	1,25	90	12	35	8	6,2	9	5	●●	●●
TC420-M10-C2-	M 10	1,5	100	15	39	10	8	11	6	●●	●●

Parallel shank

Ordering example for the grade WW60AD: TC420-M10-C2-WW60AD

DIN 2174



Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA
TC420-M12-L2-	M 12	1,75	110	16	83	9	7	10	6	●●	●●
TC420-M14-L2-	M 14	2	110	20	81	11	9	12	6	●●	●●
TC420-M16-L2-	M 16	2	110	20	68	12	9	12	6	●●	●●
TC420-M20-L2-	M 20	2,5	140	25	95	16	12	15	7	●●	●●
TC420-M24-L2-	M 24	3	160	30	113	18	14,5	17	8	●●	●●

Parallel shank

Ordering example for the grade WW60AD: TC420-M12-L2-WW60AD

WALTER SELECT

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

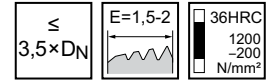
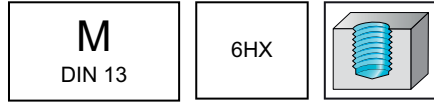
C2

HSS-E-PM machine thread formers

TC420 Supreme

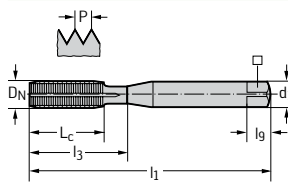


- For long-chipping materials



	P	M	K	N	S	H	O
WW60AD	●●	●●	●	●●	●		
WW60BA	●●	●●	●	●●	●		

DIN 2174

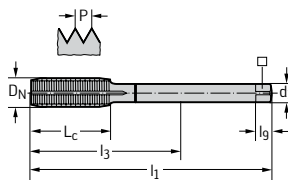


Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WW60AD	WW60BA
TC420-M2-CE-	M 2	0,4	45	4	11	2,8	2,1	5	3	●●	●●
TC420-M2.5-CE-	M 2.5	0,45	50	4	14	2,8	2,1	5	3	●●	●●
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-	M 4	0,7	63	7	21	4,5	3,4	6	5	●●	●●
TC420-M5-CE-	M 5	0,8	70	8	25	6	4,9	8	5	●●	●●
TC420-M6-CE-	M 6	1	80	10	30	6	4,9	8	5	●●	●●
TC420-M8-CE-	M 8	1,25	90	12	35	8	6,2	9	5	●●	●●
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



Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WW60AD	WW60BA
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-	M 16	2	110	20	68	12	9	12	6	●●	●●

Ordering example for the grade WW60AD: TC420-M12-LE-WW60AD

HSS-E-PM machine thread formers

TC420 Supreme



- For long-chipping materials

$\leq 3,5 \times D_N$

$C=2-3$

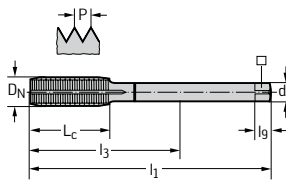
36HRC
 1200-200 N/mm²

M
DIN 13

6GX

	P	M	K	N	S	H	O
WW60AD	●●	●●	●	●●	●		
WW60BA	●●	●●	●	●●	●		

DIN 2174

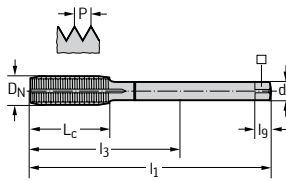


Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WW60AD	WW60BA
TC420-M2-E6-	M 2	0,4	45	4	11	2,8	2,1	5	3	●●	●●
TC420-M2.5-E6-	M 2.5	0,45	50	4	14	2,8	2,1	5	3	●●	●●
TC420-M3-E6-	M 3	0,5	56	6	18	3,5	2,7	6	4	●●	●●
TC420-M3.5-E6-	M 3.5	0,6	56	7	20	4	3	6	4	●●	●●
TC420-M4-E6-	M 4	0,7	63	7	21	4,5	3,4	6	5	●●	●●
TC420-M5-E6-	M 5	0,8	70	8	25	6	4,9	8	5	●●	●●
TC420-M6-E6-	M 6	1	80	10	30	6	4,9	8	5	●●	●●
TC420-M8-E6-	M 8	1,25	90	12	35	8	6,2	9	5	●●	●●
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



Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WW60AD
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

WALTER SELECT

●● Primary application ● Other application

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

C2

HSS-E-PM machine thread formers

TC420 Supreme



- For long-chipping materials

M
DIN 13

6GX

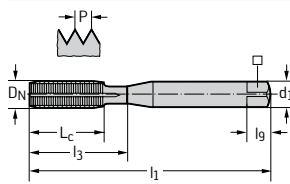
$\leq 3,5 \times D_N$

$E=1,5-2$

36HRC
1200
-200
N/mm²

	P	M	K	N	S	H	O
WW60AD	●●	●●	●	●●	●		
WW60BA	●●	●●	●	●●	●		

DIN 2174

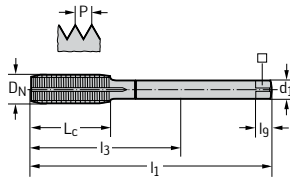


Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WW60AD	WW60BA
TC420-M2-EE-	M 2	0,4	45	4	11	2,8	2,1	5	3	●●	●●
TC420-M2.5-EE-	M 2.5	0,45	50	4	14	2,8	2,1	5	3	●●	●●
TC420-M3-EE-	M 3	0,5	56	6	18	3,5	2,7	6	4	●●	●●
TC420-M4-EE-	M 4	0,7	63	7	21	4,5	3,4	6	5	●●	●●
TC420-M5-EE-	M 5	0,8	70	8	25	6	4,9	8	5	●●	●●
TC420-M6-EE-	M 6	1	80	10	30	6	4,9	8	5	●●	●●
TC420-M8-EE-	M 8	1,25	90	12	35	8	6,2	9	5	●●	●●
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



Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WW60AD
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

C2

HSS-E machine thread formers

mm

Protodyn® S Synchrospeed



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

$\leq 3,5 \times D_N$

$C=2-3$

36HRC
1200
N/mm²

M
DIN 13

6HX

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

~DIN 2174	Designation	Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h6 mm	□ mm	l_9 mm	N
	TICN	TIN									
	S2061306-M3	S2061305-M3	M 3	0,5	70	3	18	6	4,9	8	3
	S2061306-M4	S2061305-M4	M 4	0,7	70	4	21	6	4,9	8	3
	S2061306-M5	S2061305-M5	M 5	0,8	70	5	25	6	4,9	8	4
	S2061306-M6	S2061305-M6	M 6	1	80	6	30	6	4,9	8	4
	S2061306-M8	S2061305-M8	M 8	1,25	90	8	35	8	6,2	9	5
	S2061306-M10	S2061305-M10	M 10	1,5	100	9	39	10	8	11	5

Parallel shank

~DIN 2174	Designation	Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h6 mm	□ mm	l_9 mm	N
	TICN	TIN									
	S2066306-M12	S2066305-M12	M 12	1,75	110	11	42	12	9	12	5

Parallel shank

C2

WALTER
SELECT

●● Primary application ● Other application

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

HSS-E machine thread formers

mm

Protodyn® S Synchrospeed



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

$\leq 3,5 \times D_N$

$C=2-3$

36HRC
1200
N/mm²

M
DIN 13

6HX

TIN	P	M	K	N	S	H	O
	●●	●●	●●	●●	●		

~DIN 2174	Designation TIN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l _g mm	N
	S2061345-M4	M 4	0,7	70	4	21	6	4,9	8	3
	S2061345-M5	M 5	0,8	70	5	25	6	4,9	8	4
	S2061345-M6	M 6	1	80	6	30	6	4,9	8	4
	S2061345-M8	M 8	1,25	90	8	35	8	6,2	9	5
	S2061345-M10	M 10	1,5	100	9	39	10	8	11	5

Parallel shank

~DIN 2174	Designation TIN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l _g mm	N
	S2066345-M12	M 12	1,75	110	11	42	12	9	12	5

Parallel shank

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

\leq
3×DN

C=2-3

36HRC
 1200
 -200
 N/mm²

M
DIN 13

6HX

	P	M	K	N	S	H	O
WW60EL	●●	●	●	●			

DIN 2174		Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60EL
		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	☼
	Parallel shank											

Ordering example for the grade WW60EL: TC430-M10-C0-WW60EL

C2

WALTER SELECT

●● Primary application ● Other application

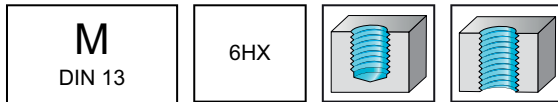
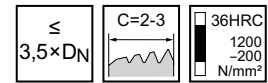
Best tool for → Good = 😊 → Average = 😐 → Poor = ☼ machining conditions

HSS-E-PM machine thread formers

TC430 Supreme

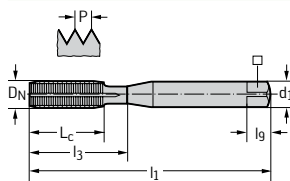


- For long-chipping materials
- ISO M only with oil



	P	M	K	N	S	H	O
WW60AD	●●	●	●	●			
WW60EL	●●	●	●	●			

DIN 2174

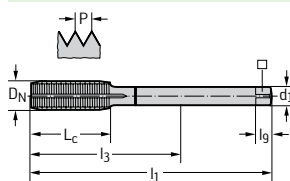


Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60EL
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-	M 8	1,25	90	12	35	8	6,2	9	6	☒	☒
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



Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60EL
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

C2

**WALTER
SELECT**

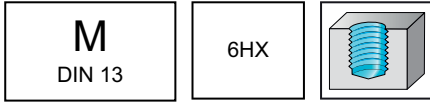
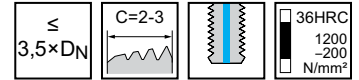
●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☒ machining conditions

HSS-E-PM machine thread formers

TC430 Supreme

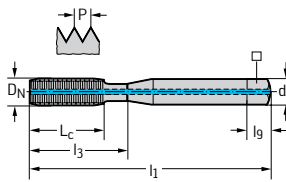


- For long-chipping materials
- ISO M only with oil



	P	M	K	N	S	H	O
WW60AD	●●	●	●	●			
WW60EL	●●	●	●	●			

DIN 2174

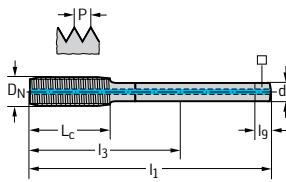


Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WW60AD	WW60EL
TC430-M5-C1-	M 5	0,8	70	8	25	6	4,9	8	5		☒
TC430-M6-C1-	M 6	1	80	10	30	6	4,9	8	5		☒
TC430-M8-C1-	M 8	1,25	90	12	35	8	6,2	9	6	☒	☒
TC430-M10-C1-	M 10	1,5	100	15	39	10	8	11	7	☒	☒

Parallel shank

Ordering example for the grade WW60AD: TC430-M10-C1-WW60AD

DIN 2174



Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WW60AD	WW60EL
TC430-M12-L1-	M 12	1,75	110	16	83	9	7	10	8	☒	☒
TC430-M16-L1-	M 16	2	110	20	68	12	9	12	8	☒	☒

Parallel shank

Ordering example for the grade WW60AD: TC430-M12-L1-WW60AD

WALTER SELECT

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

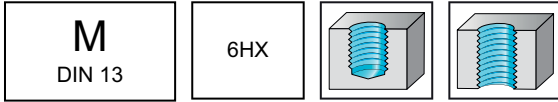
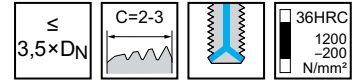
C2

HSS-E-PM machine thread formers

TC430 Supreme

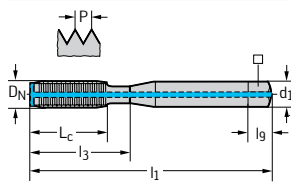


- For long-chipping materials
- ISO M only with oil



	P	M	K	N	S	H	O
WW60AD	●●	●	●	●	●		
WW60EL	●●	●	●	●	●		

DIN 2174

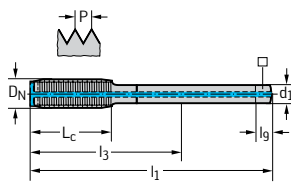


Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WW60AD	WW60EL
TC430-M5-C2-	M 5	0,8	70	8	25	6	4,9	8	5		●●
TC430-M6-C2-	M 6	1	80	10	30	6	4,9	8	5		●●
TC430-M8-C2-	M 8	1,25	90	12	35	8	6,2	9	6	●●	●●
TC430-M10-C2-	M 10	1,5	100	15	39	10	8	11	7	●●	●●

Parallel shank

Ordering example for the grade WW60AD: TC430-M10-C2-WW60AD

DIN 2174



Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WW60AD	WW60EL
TC430-M12-L2-	M 12	1,75	110	16	83	9	7	10	8	●●	●●
TC430-M16-L2-	M 16	2	110	20	68	12	9	12	8	●●	●●

Parallel shank

Ordering example for the grade WW60AD: TC430-M12-L2-WW60AD

C2

HSS-E-PM machine thread formers

TC430 Supreme



- For long-chipping materials
- ISO M only with oil

\leq
3,5×DN

C=2-3

36HRC
 1200
 -200
 N/mm²

M
DIN 13

6GX

	P	M	K	N	S	H	O
WW60AD	●●	●	●	●			

DIN 2174											WW60AD
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ 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	☸

Parallel shank

Ordering example for the grade WW60AD: TC430-M10-E6-WW60AD

DIN 2174											WW60AD
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ 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	☸

Parallel shank

Ordering example for the grade WW60AD: TC430-M12-N6-WW60AD

WALTER SELECT

●● Primary application ● Other application

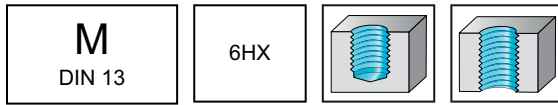
Best tool for → Good = 😊 → Average = 😐 → Poor = ☸ machining conditions

HSS-E machine thread formers

TC440 Supreme



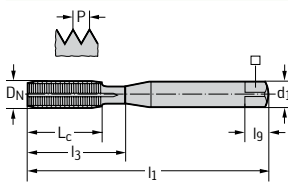
- For long-chipping materials
- For stainless steels when using emulsion



$\leq 3,5 \times D_N$ C=2-3 32HRC
 1000-200 N/mm²

	P	M	K	N	S	H	O
WY80AD	●	●●	●	●	●	●	●

DIN 2174

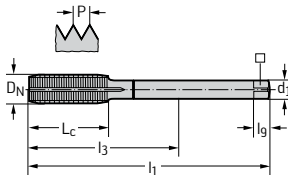


Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AD
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



Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AD
TC440-M12-L6-	M 12	1,75	110	16	83	9	7	10	5	●

Bestellbeispiel für die Sorte WY80AD: TC440-M12-L6-WY80AD

C2

HSS-E machine thread formers

TC440 Supreme



- For long-chipping materials
- For stainless steels when using emulsion

$\leq 3,5 \times D_N$

$C=2-3$

32HRC
 1000
 -200
 N/mm²

M
DIN 13

6HX

	P	M	K	N	S	H	O
WY80AD	●	●●		●	●		

DIN 2174											WY80AD
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ 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	☹	

Parallel shank

Ordering example for the grade WY80AD: TC440-M10-C1-WY80AD

DIN 2174											WY80AD
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N		
TC440-M12-L1-	M 12	1,75	110	16	83	9	7	10	5	☹	

Parallel shank

Ordering example for the grade WY80AD: TC440-M12-L1-WY80AD

WALTER SELECT

●● Primary application ● Other application

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

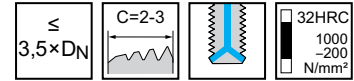
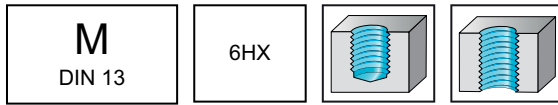
C2

HSS-E machine thread formers

TC440 Supreme

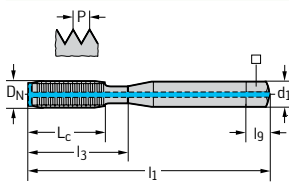


- For long-chipping materials
- For stainless steels when using emulsion



	P	M	K	N	S	H	O
WY80AD	●	●●	●	●	●	●	●

DIN 2174

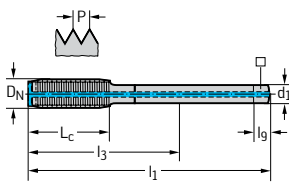


Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_g mm	N	WY80AD
TC440-M5-C2-	M 5	0,8	70	8	25	6	4,9	8	4	●●
TC440-M6-C2-	M 6	1	80	10	30	6	4,9	8	5	●●
TC440-M8-C2-	M 8	1,25	90	12	35	8	6,2	9	5	●●
TC440-M10-C2-	M 10	1,5	100	15	39	10	8	11	5	●●

Parallel shank

Ordering example for the grade WY80AD: TC440-M10-C2-WY80AD

DIN 2174



Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_g mm	N	WY80AD
TC440-M12-L2-	M 12	1,75	110	16	83	9	7	10	5	●●

Parallel shank

Ordering example for the grade WY80AD: TC440-M12-L2-WY80AD

C2

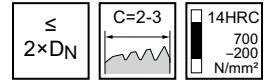
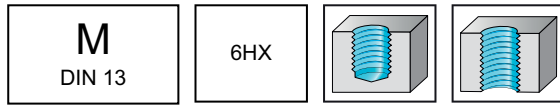
HSS-E machine thread formers

mm

Protodyn® Eco LM



– For long-chipping materials



	P	M	K	N	S	H	O
CRN	●			●●	●●		

DIN 2174		Designation CRN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	E2061604-M2	M 2	0,4	45	6	11	2,8	2,1	5	3	
	E2061604-M2.5	M 2.5	0,45	50	8	14	2,8	2,1	5	3	
	E2061604-M3	M 3	0,5	56	9	18	3,5	2,7	6	3	
	E2061604-M4	M 4	0,7	63	12	21	4,5	3,4	6	3	
	E2061604-M5	M 5	0,8	70	13	25	6	4,9	8	4	
	E2061604-M6	M 6	1	80	15	30	6	4,9	8	4	
	E2061604-M8	M 8	1,25	90	18	35	8	6,2	9	4	
	E2061604-M10	M 10	1,5	100	20	39	10	8	11	4	

DIN 2174		Designation CRN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	E2066604-M12	M 12	1,75	110	23	83	9	7	10	4	

C2

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

🌀 🌀 🌀 / ★ = New addition to the product range

HSS-E machine thread formers

mm

Protodyn® C



- For long-chipping materials

$\leq 3 \times D_N$

M
DIN 13

6HX

	P	M	K	N	S	H	O
NID	●						
uncoated	●						

DIN 2174		Designation NID	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_9 mm	N
<p>Parallel shank</p>	D70611-M1	D7061100-M1	M 1	0,25	40	6	6	2,5	2,1	5	3	
	D70611-M1.2	D7061100-M1.2	M 1.2	0,25	40	6	6	2,5	2,1	5	3	
	D70611-M1.4	D7061100-M1.4	M 1.4	0,3	40	7	7	2,5	2,1	5	3	
	D70611-M1.6	D7061100-M1.6	M 1.6	0,35	40	8	8	2,5	2,1	5	3	
	D70611-M2	D7061100-M2	M 2	0,4	45	6	11	2,8	2,1	5	3	
	D70611-M2.5	D7061100-M2.5	M 2.5	0,45	50	8	13	2,8	2,1	5	3	
	D70611-M3	D7061100-M3	M 3	0,5	56	9	18	3,5	2,7	6	4	
		D7061100-M3.5	M 3.5	0,6	56	11	20	4	3	6	4	
	D70611-M4	D7061100-M4	M 4	0,7	63	12	21	4,5	3,4	6	5	
	D70611-M5	D7061100-M5	M 5	0,8	70	13	25	6	4,9	8	5	
D70611-M6	D7061100-M6	M 6	1	80	15	30	6	4,9	8	5		
D70611-M8	D7061100-M8	M 8	1,25	90	18	35	8	6,2	9	5		
D70611-M10	D7061100-M10	M 10	1,5	100	20	39	10	8	11	5		

$\leq M 1.4$: 5HX

C2

WALTER SELECT

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

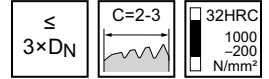
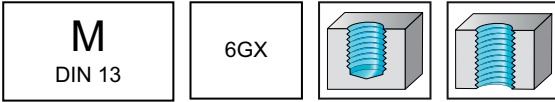
HSS-E machine thread formers

mm

Protodyn® C

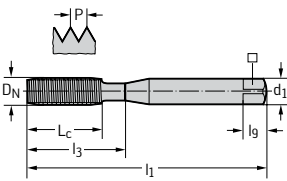


- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●						

DIN 2174



Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
D7063100-M3	M 3	0,5	56	9	18	3,5	2,7	6	4
D7063100-M4	M 4	0,7	63	12	21	4,5	3,4	6	5
D7063100-M6	M 6	1	80	15	30	6	4,9	8	5
D7063100-M8	M 8	1,25	90	18	35	8	6,2	9	5
D7063100-M10	M 10	1,5	100	20	39	10	8	11	5

Parallel shank

C2

**WALTER
SELECT**

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

HSS-E machine thread formers

mm

Protodyn® SC



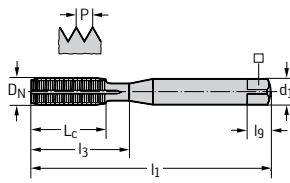
- For long-chipping materials

$\leq 3,5 \times D_N$ C=2-3 32HRC
 1000 ~200 N/mm²

M
DIN 13 6HX

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

DIN 2174



Parallel shank

Designation NID	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_g mm	N
D70617-M3	D7061700-M3	M 3	0,5	56	9	18	3,5	2,7	6	4
D70617-M3.5		M 3.5	0,6	56	11	20	4	3	6	4
D70617-M4	D7061700-M4	M 4	0,7	63	12	21	4,5	3,4	6	5
D70617-M5	D7061700-M5	M 5	0,8	70	13	25	6	4,9	8	5
D70617-M6	D7061700-M6	M 6	1	80	15	30	6	4,9	8	5
D70617-M8	D7061700-M8	M 8	1,25	90	18	35	8	6,2	9	5
D70617-M10	D7061700-M10	M 10	1,5	100	20	39	10	8	11	5

C2

WALTER
SELECT

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

HSS-E machine thread formers

mm

Protodyn® SC



- For long-chipping materials

$\leq 3,5 \times DN$

$C=2-3$

32HRC
 1000-200
 N/mm²

M
DIN 13

6GX

P	M	K	N	S	H	O
uncoated						

DIN 2174	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N
	D7063700-M3	M 3	0,5	56	9	18	3,5	2,7	6	4
	D7063700-M4	M 4	0,7	63	12	21	4,5	3,4	6	5
	D7063700-M5	M 5	0,8	70	13	25	6	4,9	8	5
	D7063700-M6	M 6	1	80	15	30	6	4,9	8	5

Parallel shank

C2

WALTER SELECT

●● Primary application ● Other application

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

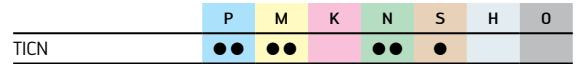
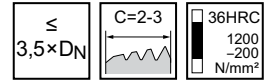
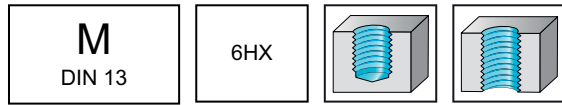
HSS-E machine thread formers

mm

Protodyn® SF



- For long-chipping materials



DIN 2174	Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	D7061706-M3	M 3	0,5	56	9	18	3,5	2,7	6	4
	D7061706-M4	M 4	0,7	63	12	21	4,5	3,4	6	5
	D7061706-M5	M 5	0,8	70	13	25	6	4,9	8	5
	D7061706-M6	M 6	1	80	15	30	6	4,9	8	5
	D7061706-M8	M 8	1,25	90	18	35	8	6,2	9	5
	D7061706-M10	M 10	1,5	100	20	39	10	8	11	5

DIN 2174	Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	D7066706-M12	M 12	1,75	110	23	83	9	7	10	5
	D7066706-M14	M 14	2	110	25	81	11	9	12	6
	D7066706-M16	M 16	2	110	25	68	12	9	12	6

C2

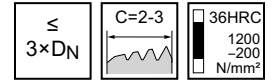
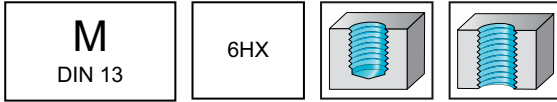
WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide machine thread formers

TC470 Supreme



- For long-chipping materials



	P	M	K	N	S	H	O
WG20EL	●●		●	●			

DIN 2174	Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l ₉ mm	N	WG20EL
	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

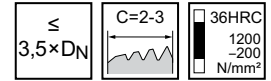
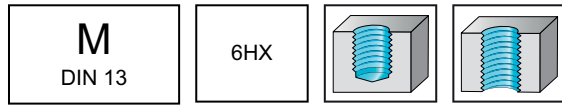
●● Primary application ● Other application
 Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹ machining conditions

Solid carbide machine thread formers

TC470 Supreme



- For long-chipping materials



	P	M	K	N	S	H	O
WG20EL	●●		●	●			

DIN 2174	Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l _g mm	N	WG20EL
	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

M
DIN 13

6HX

$\leq 3,5 \times D_N$

$C=2-3$

36HRC
1200
-200
N/mm²

	P	M	K	N	S	H	O
WG20EL	●●		●	●			

DIN 2174											WG20EL
	Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ 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	☺

Parallel shank

Ordering example for the grade WG20EL: TC470-M10-C5-WG20EL

C2

WALTER SELECT

●● Primary application ● Other application

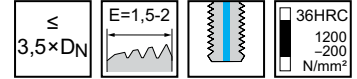
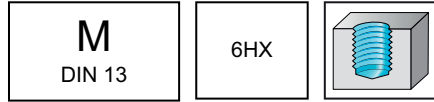
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹ machining conditions

Solid carbide machine thread formers

TC470 Supreme



- For long-chipping materials



	P	M	K	N	S	H	O
WG20EL	●●		●	●			

DIN 2174	Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h6 mm	□ mm	l_9 mm	N	WG20EL
	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

C2

WALTER SELECT ●● Primary application ● Other application

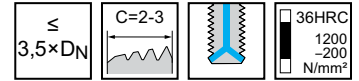
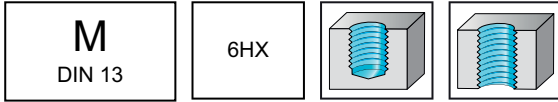
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

Solid carbide machine thread formers

TC470 Supreme



- For long-chipping materials



	P	M	K	N	S	H	O
WG20EL	●●		●	●			

DIN 2174	Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h6 mm	□ mm	l_9 mm	N	WG20EL
	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

C2

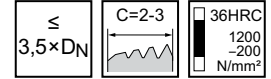
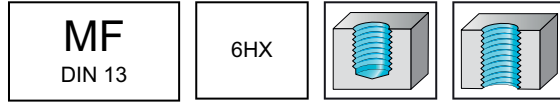
●● Primary application ● Other application
 Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹ machining conditions

HSS-E machine thread formers

TC410 Advance mm

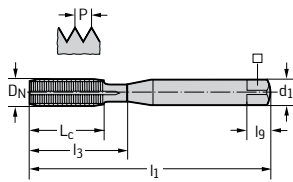


– For long-chipping materials



	P	M	K	N	S	H	O
WY80AD	●●	●●	●	●●	●		

DIN 2174

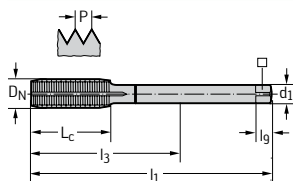


Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AD
TC410-M4X0.5-C6-	MF 4x0.5	0,5	63	12	21	4,5	3,4	6	5	☹
TC410-M5X0.5-C6-	MF 5x0.5	0,5	70	13	25	6	4,9	8	5	☹
TC410-M6X0.5-C6-	MF 6x0.5	0,5	80	15	30	6	4,9	8	5	☹
TC410-M6X0.75-C6-	MF 6x0.75	0,75	80	15	30	6	4,9	8	5	☹
TC410-M7X0.75-C6-	MF 7x0.75	0,75	80	15	30	7	5,5	8	5	☹

Parallel shank

Ordering example for the grade WY80AD: TC410-M4X0.5-C6-WY80AD

DIN 2174



Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g 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	☹

Parallel shank

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

MF
DIN 13

6GX

$\leq 3,5 \times DN$

$E=1,5-2$

36HRC
1200
-200
N/mm²

	P	M	K	N	S	H	O
WY80AD	●●	●	●	●●	●		

DIN 2174											WY80AD
	Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	
	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	☹

Parallel shank

Ordering example for the grade WY80AD: TC410-M10X1-NE-WY80AD

C2

WALTER SELECT

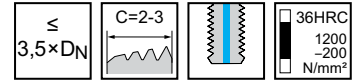
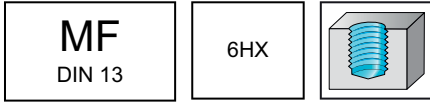
●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

HSS-E-PM machine thread formers

TC420 Supreme

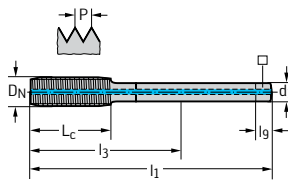


- For long-chipping materials



	P	M	K	N	S	H	O
WW60AD	●●	●●	●●	●●	●		

DIN 2174



Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WW60AD
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	☹

Parallel shank

Ordering example for the grade WW60AD: TC420-M10X1-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

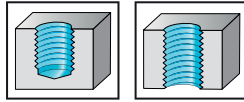
$\leq 3,5 \times D_N$

$C=2-3$

36HRC
 1200
 -200
 N/mm²

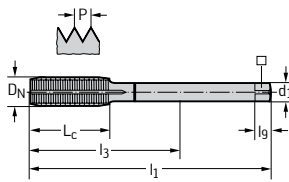
MF
DIN 13

6HX



	P	M	K	N	S	H	O
WW60AD	●●	●●	●	●●	●		
WW60BA	●●	●●	●	●●	●		

DIN 2174



Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	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	☼	☼

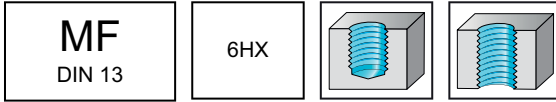
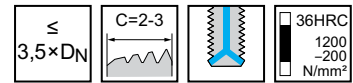
Ordering example for the grade WW60AD: TC420-M10X1-L6-WW60AD

HSS-E-PM machine thread formers

TC420 Supreme

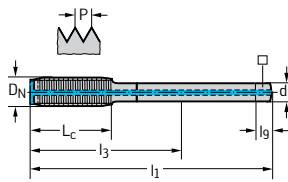


- For long-chipping materials



	P	M	K	N	S	H	O
WW60AD	●●	●●	●	●●	●		
WW60BA	●●	●●	●	●●	●		

DIN 2174



Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _q 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

HSS-E-PM machine thread formers

TC420 Supreme



- For long-chipping materials

$\leq 3,5 \times D_N$

$C=2-3$

36HRC
 1200
 -200
 N/mm²

MF
 DIN 13

6GX

	P	M	K	N	S	H	O
WW60AD	●●	●●	●	●●	●		
WW60BA	●●	●●	●	●●	●		

DIN 2174		Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	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

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹ machining conditions

HSS-E machine thread formers

mm

Protodyn® S Synchrospeed



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

\leq
3,5×DN

C=2-3

36HRC
 1200
 N/mm²

MF
DIN 13

6HX

TIN	P	M	K	N	S	H	O
	●●	●●	●	●●	●		

~DIN 2174	Designation TIN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l _g mm	N
	S2166305-M8X1	MF 8x1	1	90	6	35	8	6,2	9	5
	S2166305-M10X1	MF 10x1	1	90	6	39	10	8	11	5

Parallel shank

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

$\leq 3,5 \times D_N$

$C=2-3$

36HRC
 1200
 -200
 N/mm²

MF
DIN 13

6HX

	P	M	K	N	S	H	O
WW60EL	●●	●	●	●			
WW60AD	●●	●	●	●			

DIN 2174												
	Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WW60EL	WW60AD
<p>Parallel shank</p>	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

WALTER SELECT

●● Primary application ● Other application

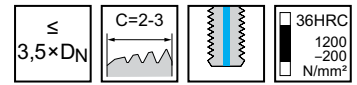
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹ machining conditions

HSS-E-PM machine thread formers

TC430 Supreme

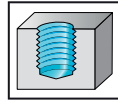


- For long-chipping materials
- ISO M only with oil



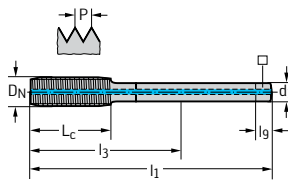
MF
DIN 13

6HX



	P	M	K	N	S	H	O
WW60EL	●●	●	●	●			
WW60AD	●●	●	●	●			

DIN 2174



Parallel shank

Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_q 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

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

$\leq 3,5 \times D_N$

$C=2-3$

36HRC
1200
-200
N/mm²

MF
DIN 13

6HX

	P	M	K	N	S	H	O
WW60AD	●●	●	●	●			
WW60EL	●●	●	●	●			

DIN 2174		Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N	WW60AD	WW60EL
<p>Parallel shank</p>		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

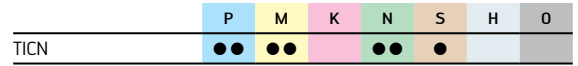
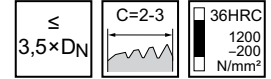
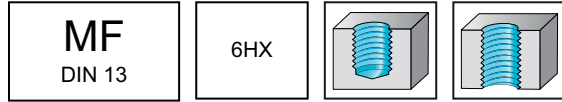
HSS-E machine thread formers

mm

Protodyn® SF



- For long-chipping materials



DIN 2174	Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
	D7166706-M8X1	MF 8x1	1	90	18	67	6	4,9	8	5
	D7166706-M10X1	MF 10x1	1	90	20	67	7	5,5	8	5
	D7166706-M10X1.25	MF 10x1.25	1,25	100	20	77	7	5,5	8	5
	D7166706-M12X1	MF 12x1	1	100	21	73	9	7	10	5
	D7166706-M12X1.5	MF 12x1.5	1,5	100	21	73	9	7	10	5
	D7166706-M14X1.5	MF 14x1.5	1,5	100	21	71	11	9	12	6
	D7166706-M16X1.5	MF 16x1.5	1,5	100	21	58	12	9	12	6

C2

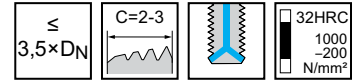
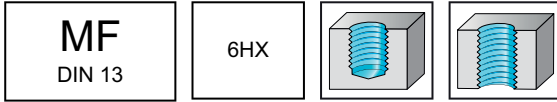
WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

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	●	●●		●	●		

DIN 2174		Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	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

C2

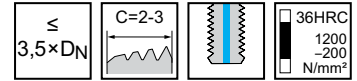
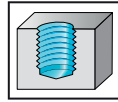
●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☼ machining conditions

Solid carbide machine thread formers

TC470 Supreme

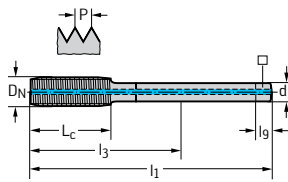


- For long-chipping materials



	P	M	K	N	S	H	O
WG20EL	●●		●	●			

DIN 2174



Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l ₉ mm	N	WG20EL
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	☺

Parallel shank

Ordering example for the grade WG20EL: TC470-M10X1-L5-WG20EL

C2

WALTER SELECT ●● Primary application ● Other application

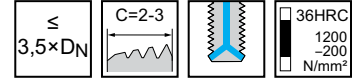
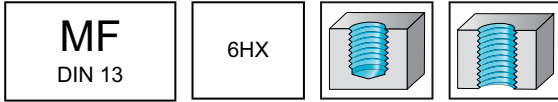
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹☹ machining conditions

Solid carbide machine thread formers

TC470 Supreme



- For long-chipping materials



	P	M	K	N	S	H	O
WG20EL	●●		●	●			

DIN 2174		Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h6 mm	l_9 mm	N	WG20EL	
		TC470-M16X1.5-L2-	MF 16x1.5	1,5	100	15	58	12	9	12	8	☺
Parallel shank												

Ordering example for the grade WG20EL: TC470-M16X1.5-L2-WG20EL

C2

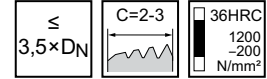
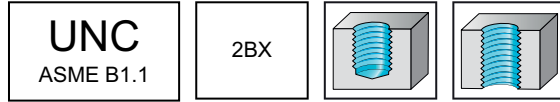
●● Primary application ● Other application
 Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹ machining conditions

HSS-E machine thread formers

TC410 Advance

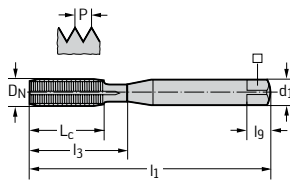


- For long-chipping materials



	P	M	K	N	S	H	O
WY80AD	●●	●●	●●	●●	●		

DIN 2184-1

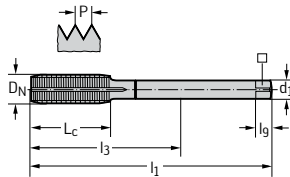


Parallel shank

Designation	D _{N-P}	D _{N-P} mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AD
TC410-UNC2-C6-	UNC #2-56	2,184	45	7	12	2,8	2,1	5	3	●●
TC410-UNC4-C6-	UNC #4-40	2,845	56	9	18	3,5	2,7	6	3	●●
TC410-UNC6-C6-	UNC #6-32	3,505	56	11	20	4	3	6	4	●●
TC410-UNC8-C6-	UNC #8-32	4,166	63	12	21	4,5	3,4	6	5	●●
TC410-UNC10-C6-	UNC #10-24	4,826	70	13	25	6	4,9	8	5	●●
TC410-UNC1/4-C6-	UNC 1/4-20	6,35	80	15	30	7	5,5	8	5	●●
TC410-UNC5/16-C6-	UNC 5/16-18	7,938	90	18	35	8	6,2	9	5	●●
TC410-UNC3/8-C6-	UNC 3/8-16	9,525	100	20	39	10	8	11	5	●●

Ordering example for the grade WY80AD: TC410-UNC1/4-C6-WY80AD

DIN 2184-1



Parallel shank

Designation	D _{N-P}	D _{N-P} mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AD
TC410-UNC7/16-L6-	UNC 7/16-14	11,113	100	20	76	8	6,2	9	6	●●
TC410-UNC1/2-L6-	UNC 1/2-13	12,7	110	23	83	9	7	10	6	●●
TC410-UNC5/8-L6-	UNC 5/8-11	15,875	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

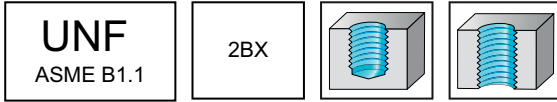
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine thread formers

TC410 Advance mm



- For long-chipping materials

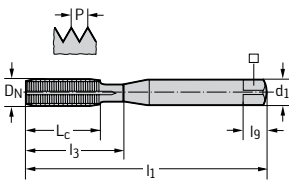


$\leq 3,5 \times DN$

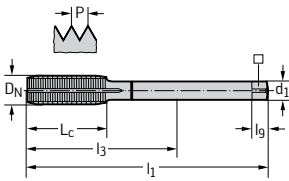
$C=2-3$

36HRC
 1200
 -200
 N/mm²

	P	M	K	N	S	H	O
WY80AD	●●	●●	●●	●●	●	●	●

DIN 2184-1											WY80AD
Designation	D _N -P	D _N -P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N		
	TC410-UNF2-C6-	UNF #2-64	2,184	45	7	12	2,8	2,1	5	3	☠
	TC410-UNF4-C6-	UNF #4-48	2,845	56	9	18	3,5	2,7	6	3	☠
	TC410-UNF6-C6-	UNF #6-40	3,505	56	11	20	4	3	6	4	☠
	TC410-UNF8-C6-	UNF #8-36	4,166	63	12	21	4,5	3,4	6	5	☠
	TC410-UNF10-C6-	UNF #10-32	4,826	70	13	25	6	4,9	8	5	☠
	TC410-UNF1/4-C6-	UNF 1/4-28	6,35	80	15	30	7	5,5	8	5	☠
	TC410-UNF5/16-C6-	UNF 5/16-24	7,938	90	18	35	8	6,2	9	5	☠
	TC410-UNF3/8-C6-	UNF 3/8-24	9,525	90	20	39	10	8	11	5	☠

Ordering example for the grade WY80AD: TC410-UNF1/4-C6-WY80AD

DIN 2184-1											WY80AD
Designation	D _N -P	D _N -P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N		
	TC410-UNF7/16-L6-	UNF 7/16-20	11,113	100	20	76	8	6,2	9	6	☠
	TC410-UNF1/2-L6-	UNF 1/2-20	12,7	100	21	73	9	7	10	6	☠
	TC410-UNF5/8-L6-	UNF 5/8-18	15,875	100	21	58	12	9	12	6	☠

Ordering example for the grade WY80AD: TC410-UNF1/2-L6-WY80AD

WALTER SELECT

●● Primary application ● Other application

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

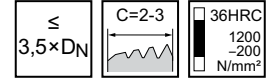
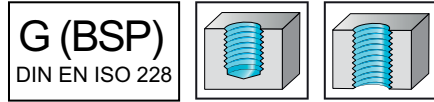
C2

HSS-E machine thread formers

TC410 Advance



- For long-chipping materials



	P	M	K	N	S	H	O
WY80AD	●●	●●	●	●●	●		

DIN 2189		Designation	D _{N-P}	D _{N-P} mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	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	7	☹
		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	☹
	Parallel shank												

Ordering example for the grade WY80AD: TC410-G1-N6-WY80AD

C2

WALTER SELECT ●● Primary application ● Other application

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

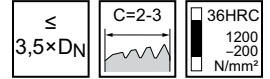
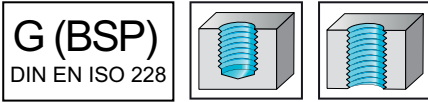
HSS-E machine thread formers

mm

Protodyn® SF

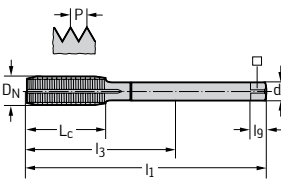


- For long-chipping materials



	P	M	K	N	S	H	O
TICN	●●	●●	●●	●●	●		

DIN 2189



Designation TICN	D _N -P	D _N -P mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	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

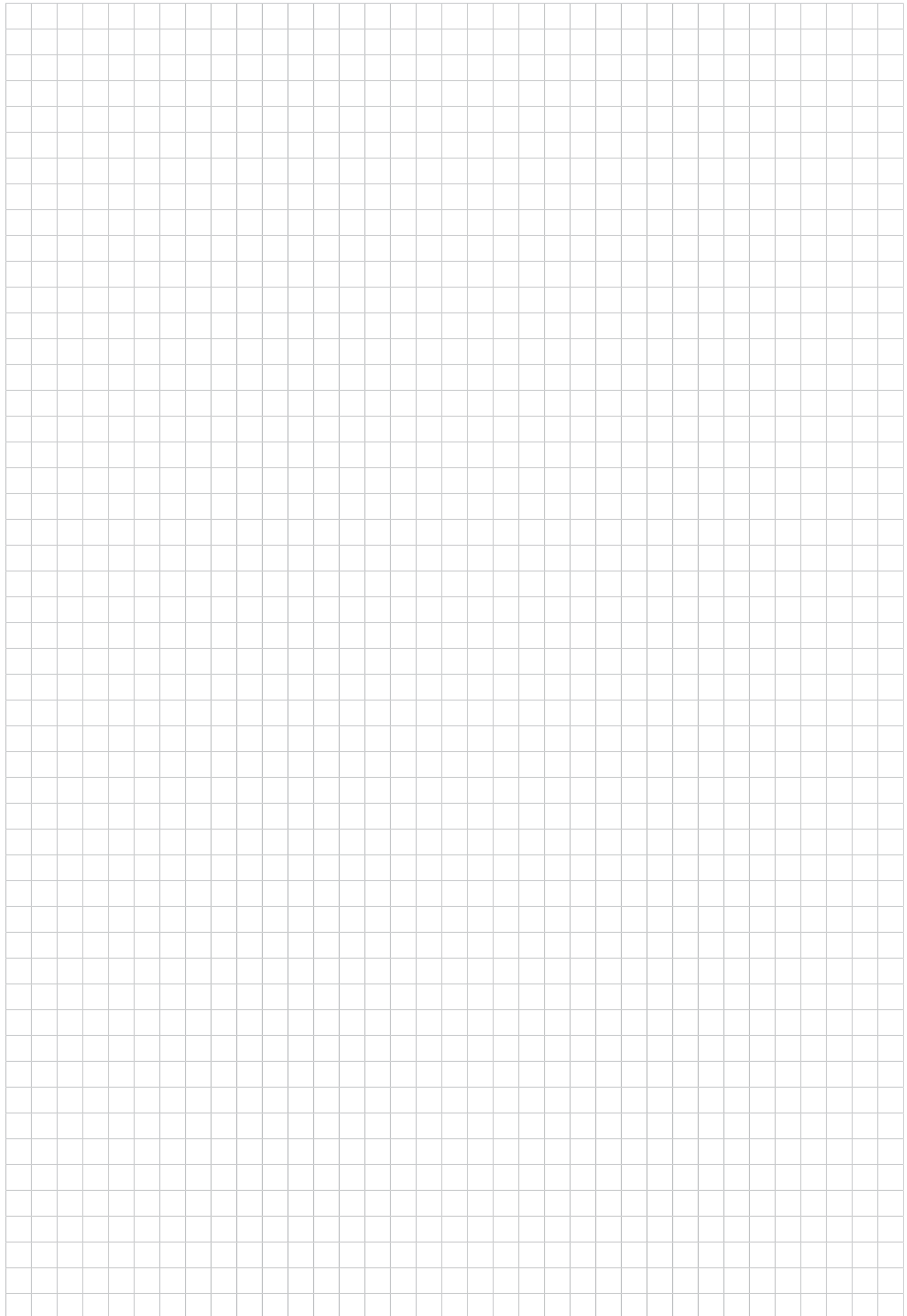
Parallel shank

C2

WALTER
SELECT

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

C2



Drill thread milling cutters

Machining					
Thread depth	2 x D _N	2 x D _N	2 x D _N	2,5 x D _N	2,5 x D _N
	NEW		NEW	NEW	NEW
Designation	TC685 Supreme	TMD	Thrill-tec™	TC685 Supreme	Thrill-tec™
Thread type					
M	✓	✓	✓	✓	✓
MF	✓		✓	✓	✓
UNC / UNF / UN-8			✓		✓
G / Rc / Rp	✓		✓		
MJ / UNJC / UNJF					
NPT / NPTF					
Pg / BSW / Tr					
Indexable inserts basic shape	✓		✓	✓	✓
Additional services					
Coolant supply	External / axial	axial	axial	External / axial	axial
Coating / grade	WB10RC	NHC / TAX	WB10TJ	WB10RC	WB10TJ
Cutting tool material	VHM	VHM	VHM	VHM	VHM
P Steel	●		●●	●	●●
M Stainless steel			●●		●●
K Cast iron	●	●●	●●	●	●●
N NF metals		●●	●●		●●
S Materials with difficult cutting properties	●		●●	●	●●
H Hard materials	●●			●●	
O Other			●		●
Page in catalogue	C 368	C 362	C 363	C 370	C 364
QR code					
www.walter-tools.com/woc/	TC685	tmd	TC645	TC685	TC645

C3

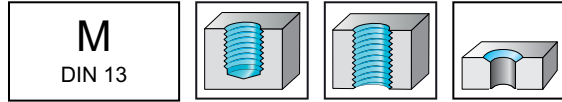
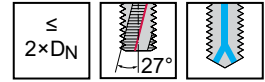
Solid carbide drill thread milling cutters

mm

TMD



- Drilling, countersinking and thread milling in one operation
- Drill thread milling cutters



M
DIN 13

	P	M	K	N	S	H	O
NHC				●●			
TAX			●●	●●			

Tool		P	D _c	D _a	L _c	L _{c3}	d ₄	L _{c1}	L _{c2}	l ₁	l ₄	d ₁ h ₆	Z
<p>DIN 6535 HA</p>	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
	H5075018-M6	1	5	4,75	11	14,7	6,3	13,8	1	62	26	8	3
<p>DIN 6535 HA</p>	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

C3

WALTER SELECT

●● Primary application ● Other application

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

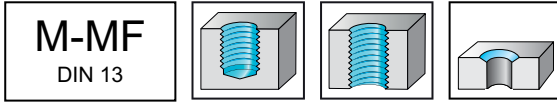
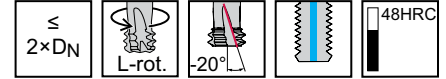
Orbital drill thread milling cutter

TC645 Supreme

Thrill-tec™



- Orbital drill thread milling cutters for universal application
- Chamfer, core hole and thread in one operation



	P	M	K	N	S	H	O
WB10TJ	●●	●●	●●	●●	●●		●

Tool	Designation	D _N	D _c mm	L _{c2} mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
<p>DIN 6535 HA</p>	★ TC645-M4-A1D-	M 4	3,05	0,77	8	50	14	6	4	☹
	★ TC645-M5-A1D-	M 5	3,9	0,89	10	50	14	6	4	☹
	★ TC645-M6-A1D-	M 6	4,5	1,1	12	50	14	6	4	☹
	★ TC645-M8-A1D-	M 8	6,2	1,39	16	63	27	8	4	☹
	★ TC645-M10-A1D-	M 10	7,8	1,47	20	63	27	8	4	☹
	★ TC645-M12-A1D-	M 12	8,7	1,95	24	72	32	10	4	☹

Maximum nominal thread diameter for fine thread: $D_c \times 1.94$ | Example: TC645-M8. /6.2 mm $\times 1.94 = 12.03$ mm/MF 12 \times 1.25 possible | Ordering example for the grade WB10TJ: TC645-M10-A1D-WB10TJ

C3

WALTER SELECT ●● Primary application ● Other application

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

☹ ☹ ☹ / ★ = New addition to the product range

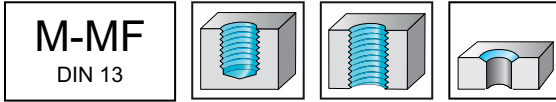
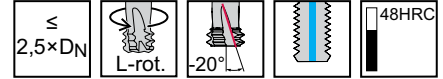
Orbital drill thread milling cutter

TC645 Supreme

Thrill-tec™

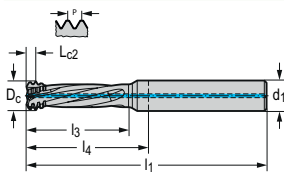


- Orbital drill thread milling cutters for universal application
- Chamfer, core hole and thread in one operation



	P	M	K	N	S	H	O
WB10TJ	●●	●●	●●	●●	●●		●

Tool



DIN 6535 HA

Designation	D _N	D _c mm	L _{c2} mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
★ TC645-M4-A1E-	M 4	3,05	0,77	10	50	14	6	4	☹☹
★ TC645-M5-A1E-	M 5	3,9	0,89	12,5	57	21	6	4	☹☹
★ TC645-M6-A1E-	M 6	4,5	1,1	15	57	21	6	4	☹☹
★ TC645-M8-A1E-	M 8	6,2	1,39	20	63	27	8	4	☹☹
★ TC645-M10-A1E-	M 10	7,8	1,67	25	63	27	8	4	☹☹
★ TC645-M12-A1E-	M 12	8,7	1,95	30	72	33	10	4	☹☹

Maximum nominal thread diameter for fine thread: $D_c \times 1.94$ | Example: TC645-M8.. /6.2 mm $\times 1.94 = 12.03$ mm/MF 12 \times 1.25 possible | Ordering example for the grade WB10TJ: TC645-M10-A1E-WB10TJ

C3

WALTER SELECT

Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹ / ★

●● Primary application ● Other application

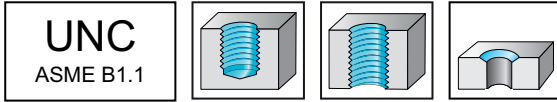
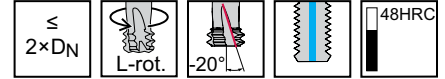
Orbital drill thread milling cutter

TC645 Supreme

Thrill-tec™



- Orbital drill thread milling cutters for universal application
- Chamfer, core hole and thread in one operation



	P	M	K	N	S	H	O
WB10TJ	●●	●●	●●	●●	●●		●

Tool	Designation	D _N	D _c mm	L _{c2} mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
<p>DIN 6535 HA</p>	★ TC645-UNC8-A1D-	UNC #8-32	3,1	0,87	8,331	50	14	6	4	☹
	★ TC645-UNC10-A1D-	UNC #10-24	3,5	1,14	9,652	50	14	6	4	☹
	★ TC645-UNC1/4-A1D-	UNC 1/4-20	4,6	1,38	12,7	57	21	6	4	☹
	★ TC645-UNC5/16-A1D-	UNC 5/16-18	5,9	1,55	15,875	57	21	6	4	☹
	★ TC645-UNC3/8-A1D-	UNC 3/8-16	7,2	1,75	19,05	63	27	8	4	☹
	★ TC645-UNC7/16-A1D-	UNC 7/16-14	8,5	2,01	22,225	72	32	10	4	☹
	★ TC645-UNC1/2-A1D-	UNC 1/2-13	9,2	2,17	25,4	72	32	10	4	☹

Ordering example for the grade WB10TJ: TC645-UNC1/2-A1D-WB10TJ

WALTER SELECT ●● Primary application ● Other application

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

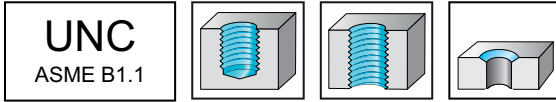
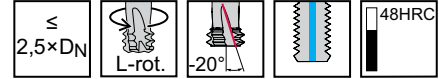
Orbital drill thread milling cutter

TC645 Supreme

Thrill-tec™



- Orbital drill thread milling cutters for universal application
- Chamfer, core hole and thread in one operation



	P	M	K	N	S	H	O
WB10TJ	●●	●●	●●	●●	●●		●

Tool	Designation	D _N	D _c mm	L _{c2} mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
<p>DIN 6535 HA</p>	★ TC645-UNC8-A1E-	UNC #8-32	3,1	0,87	10,414	50	14	6	4	☹
	★ TC645-UNC10-A1E-	UNC #10-24	3,5	1,14	12,065	57	21	6	4	☹
	★ TC645-UNC1/4-A1E-	UNC 1/4-20	4,6	1,38	15,875	57	21	6	4	☹
	★ TC645-UNC5/16-A1E-	UNC 5/16-18	5,9	1,55	19,844	57	22	6	4	☹
	★ TC645-UNC3/8-A1E-	UNC 3/8-16	7,2	1,75	23,813	63	27	8	4	☹
	★ TC645-UNC7/16-A1E-	UNC 7/16-14	8,5	2,01	27,781	72	32	10	4	☹
	★ TC645-UNC1/2-A1E-	UNC 1/2-13	9,2	2,17	31,75	80	40	10	4	☹

Ordering example for the grade WB10TJ: TC645-UNC1/2-A1E-WB10TJ

C3

WALTER SELECT

●● Primary application ● Other application

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

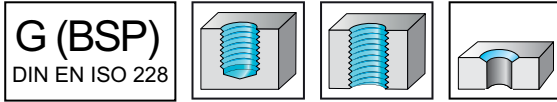
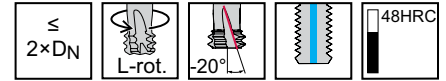
Orbital drill thread milling cutter

TC645 Supreme

Thrill-tec™



- Orbital drill thread milling cutters for universal application
- Chamfer, core hole and thread in one operation



	P	M	K	N	S	H	O
WB10TJ	●●	●●	●●	●●	●●		●

Tool		Designation	D _N	Threads per inch	D _c mm	L _{c2} mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
	★	TC645-G1/16-A1D-	G 1/16-28	28	6,2	0,98	15,446	58	22	8	4	☹
	★	TC645-G1/8-A1D-	G 1/8-28	28	8,05	1,01	19,456	64	24	10	4	☹
	★	TC645-G1/4-A1D-	G 1/4-19	19	10,2	1,49	26,35	77	32	12	4	☹

DIN 6535 HA

Ordering example for the grade WB10TJ: TC645-G1/16-A1D-WB10TJ

C3

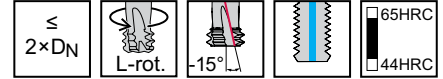
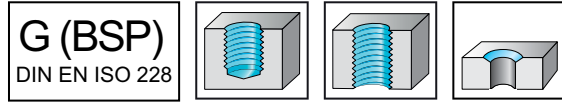
WALTER SELECT
●● Primary application ● Other application
 Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹ machining conditions

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	●		●		●	●	

Tool	Designation	D _N	P	D _c mm	L _{c2} mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10RC
	★ TC685-G1/16-A1D-	G 1/16-28	28	6,2	0,98	15,446	63	27	8	4	☹
	★ TC685-G1/8-A1D-	G 1/8-28	28	8,1	1,01	19,456	72	32	10	4	☹
	★ TC685-G1/4-A1D-	G 1/4-19	19	10,4	1,49	26,35	83	38	12	4	☹
	★ TC685-G1/2-A1D-	G 1/2-14	14	15,2	2,07	41,91	116	68	16	4	☹

DIN 6535 HA

Ordering example for the grade WB10RC: TC685-G1/16-A1D-WB10RC

C3

WALTER SELECT ●● Primary application ● Other application

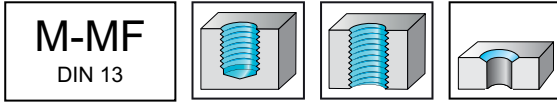
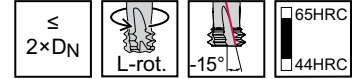
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

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	●		●		●	●●	

Tool	Designation	D _N	P mm	D _c mm	L _{c2} mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10RC
<p>DIN 6535 HA</p>	★ TC685-M2-A0D-	M 2	0,4	1,55	0,44	4	57	21	6	4	☹
	★ TC685-M2.5-A0D-	M 2.5	0,45	1,95	0,5	5	57	21	6	4	☹
	TC685-M3-A0D-	M 3	0,5	2,35	0,55	6	50	14	6	4	☹
	TC685-M4-A0D-	M 4	0,7	3,1	0,77	8	50	14	6	4	☹
	TC685-M5-A0D-	M 5	0,8	3,9	0,89	10	57	21	6	4	☹
<p>DIN 6535 HA</p>	TC685-M6-A1D-	M 6	1	4,6	1,11	12	57	21	6	4	☹
	TC685-M8-A1D-	M 8	1,25	6,2	1,39	16	63	27	8	4	☹
	TC685-M10-A1D-	M 10	1,5	7,8	1,68	20	63	27	8	4	☹
	TC685-M12-A1D-	M 12	1,75	9	1,96	24	72	32	10	4	☹
	TC685-M14-A1D-	M 14	2	10,5	2,25	28	83	38	12	4	☹
	TC685-M16-A1D-	M 16	2	12,5	2,28	32	92	44	16	4	☹
	★ TC685-M18-A1D-	M 18	2,5	13,5	2,81	36	115	67	16	4	☹
	★ TC685-M20-A1D-	M 20	2,5	15,4	2,84	40	115	67	16	4	☹

Maximum nominal thread diameter for fine thread: D_c x 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-M2-A0D-WB10RC

WALTER SELECT ●● Primary application ● Other application

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

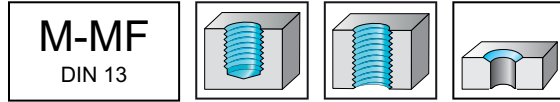
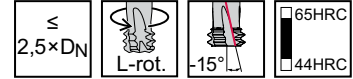
C3

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	●		●		●	●	

Tool	Designation	D _N	P mm	D _c mm	L _{c2} mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10RC
<p>DIN 6535 HA</p>	★ TC685-M2-A0E-	M 2	0,4	1,55	0,44	4	57	21	6	4	☹
	★ TC685-M2.5-A0E-	M 2.5	0,45	1,95	0,5	5	57	21	6	4	☹
	TC685-M3-A0E-	M 3	0,5	2,35	0,55	7,5	50	14	6	4	☹
	TC685-M4-A0E-	M 4	0,7	3,1	0,77	10	57	21	6	4	☹
	TC685-M5-A0E-	M 5	0,8	3,9	0,89	12,5	57	21	6	4	☹
<p>DIN 6535 HA</p>	TC685-M6-A1E-	M 6	1	4,6	1,11	15	57	21	6	4	☹
	TC685-M8-A1E-	M 8	1,25	6,2	1,39	20	63	27	8	4	☹
	TC685-M10-A1E-	M 10	1,5	7,8	1,68	25	63	27	8	4	☹
	TC685-M12-A1E-	M 12	1,75	9	1,96	30	72	33	10	4	☹
	TC685-M14-A1E-	M 14	2	10,5	2,25	35	83	38	12	4	☹
	TC685-M16-A1E-	M 16	2	12,5	2,28	40	92	44	16	4	☹
	★ TC685-M18-A1E-	M 18	2,5	13,5	2,81	36	115	67	16	4	☹
	★ TC685-M20-A1E-	M 20	2,5	15,4	2,84	40	115	67	16	4	☹

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-M2-A0E-WB10RC

C3


WALTER SELECT ●● Primary application ● Other application

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

Thread milling cutters with countersink

Machining	
Thread depth	2 x D _N



Designation	TMC
Thread type	
M	✓
MF	✓
UNC / UNF / UN-8	
G / Rc / Rp	
MJ / UNJC / UNJF	
NPT / NPTF	
Pg / BSW / Tr	
Indexable inserts basic shape	✓
Additional services	
Coolant supply	External / axial
Coating / grade	TICN / uncoated
Cutting tool material	VHM
P Steel	●●
M Stainless steel	●●
K Cast iron	●●
N NF metals	●●
S Materials with difficult cutting properties	●●
H Hard materials	
O Other	●

Page in catalogue C 372



www.walter-tools.com/woc/ tmc

C3

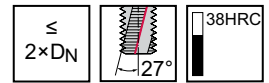
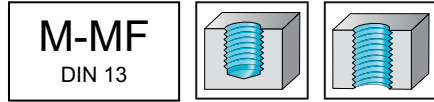
Solid carbide thread milling cutters

mm

TMC



– Universal thread milling cutters with countersink



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

Tool									
Designation	D _N	P mm	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	
H5055006-M3	M 3	0,5	2,3	6	57	21	6	3	
DIN 6535 HA									
H505500-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

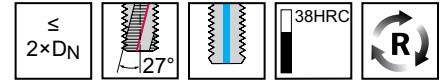
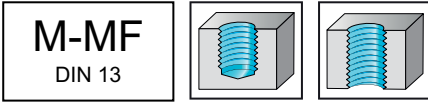
Solid carbide thread milling cutters

mm

TMC

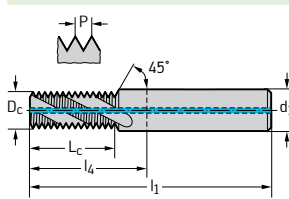


– Universal thread milling cutters with countersink



	P	M	K	N	S	H	O
TICN	●●	●●	●●	●●	●●		●

Tool



DIN 6535 HA

Designation	D _N	P mm	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
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

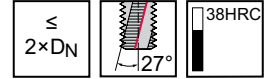
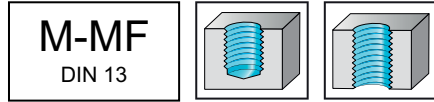
Solid carbide thread milling cutters

mm

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
<p>DIN 6535 HB</p>	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

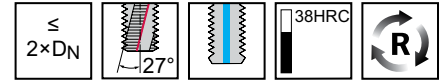
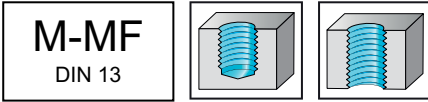
Solid carbide thread milling cutters

mm

TMC

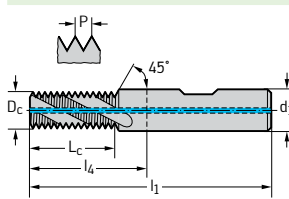


– Universal thread milling cutters with countersink



	P	M	K	N	S	H	O
TICN	●●	●●	●●	●●	●●		●

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
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

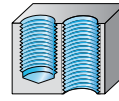
C3

WALTER SELECT

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

Thread milling cutters without countersink

Machining



Thread depth

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


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

Indexable inserts basic shape



Additional services



Coolant supply

External / axial

External

External / axial

External / axial

axial

Coating / grade

WB10RD / WJ30RC

TAX

TiCN

WB10RD / WJ30RC

WB10TJ

Cutting tool material

VHM

VHM

VHM

VHM

VHM

P Steel



M Stainless steel



K Cast iron



N NF metals



S Materials with difficult cutting properties



H Hard materials



O Other



Page in catalogue

C 378

C 390

C 407

C 382

C 380

QR code


www.walter-tools.com/woc/

TC610

tmg-hrc

tmg-ni

TC611

TC620

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			
Indexable inserts basic shape	✓	✓	
Additional services			
Coolant supply	External	axial	External
Coating / grade	TICN	WB10TJ	TICN
Cutting tool material	VHM	VHM	VHM
P Steel	●●	●●	●●
M Stainless steel	●●	●●	●●
K Cast iron	●●	●●	●●
N NF metals	●●	●●	●●
S Materials with difficult cutting properties	●●	●●	●●
H Hard materials			
O Other	●	●	●
Page in catalogue	C 392	C 384	C 413
QR code			
www.walter-tools.com/woc/	tme	TC620	tmg

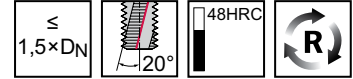
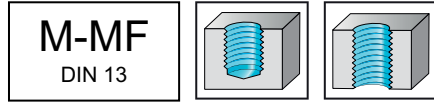
C3

Solid carbide thread milling cutters

TC610 Supreme



– Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC	●●	●●	●●	●●	●●		●

Tool	Designation	D _N	P mm	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RC
										☺
<p>DIN 6535 HB</p>	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

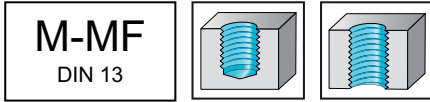
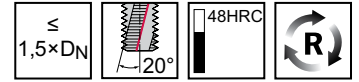
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹ machining conditions

Solid carbide thread milling cutters

TC610 Supreme



- Universal thread milling cutters



	P	M	K	N	S	H	O
WB10RD	●●	●●	●●	●●	●●		●
WJ30RC	●●	●●	●●	●●	●●		●

Tool	Designation	D_N	P mm	D_c mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	WB10RD	WJ30RC
	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

C3

WALTER SELECT ●● Primary application ● Other application

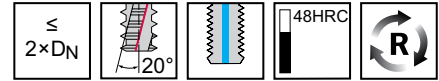
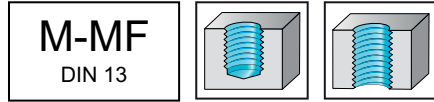
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

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	●●	●●	●●	●●	●●		●

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
<p>DIN 6535 HA</p>	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

C3

WALTER SELECT ●● Primary application ● Other application

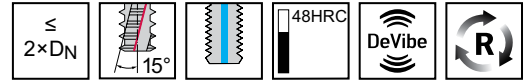
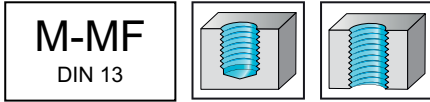
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ / ★ machining conditions

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	●●	●●	●●	●●	●●		●

Tool	Designation	D _N	P mm	D _c mm	l _{z1} mm	L _c mm	l _k mm	l ₁ mm	d ₁ h6 mm	Z	WB10TJ
	TC620-M8-W5D-	M 8	1,25	6,3	2,5	16,3	27	63	8	4	☺
	TC620-M10-W5D-	M 10	1,5	7,9	3	21	32	68	8	4	☺
	TC620-M12-W5D-	M 12	1,75	9,6	3,5	24,5	38	78	10	4	☺
	TC620-M14-W5D-	M 14	2	11,2	4	28	45	90	12	4	☺
	TC620-M16-W5D-	M 16	2	13,1	4	32	44	92	16	5	☺
	TC620-M18-W5D-	M 18	2,5	14,5	5	37,5	52	100	16	5	☺
	TC620-M20-W5D-	M 20	2,5	16,4	5	40	57	105	18	5	☺

DIN 6535 HB

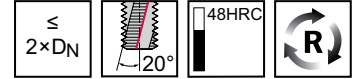
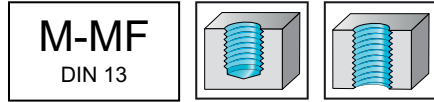
Ordering example for the grade WB10TJ: TC620-M10-W5D-WB10TJ

Solid carbide thread milling cutters

TC611 Supreme



– Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC	●●	●●	●●	●●	●●		●

Tool	Designation	D_N	P mm	D_c mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	WJ30RC
<p>DIN 6535 HB</p>	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

C3

WALTER SELECT

●● Primary application ● Other application

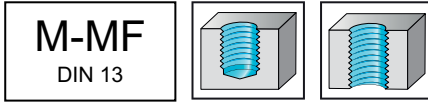
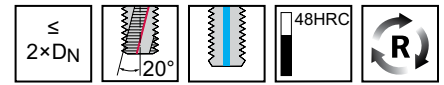
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ / ★ machining conditions

Solid carbide thread milling cutters

TC611 Supreme



– Universal thread milling cutters



	P	M	K	N	S	H	O
WB10RD	●●	●●	●●	●●	●●		●
WJ30RC	●●	●●	●●	●●	●●		●

Tool	Designation	D _N	P mm	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10RD	WJ30RC
	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

WALTER SELECT

●● Primary application ● Other application

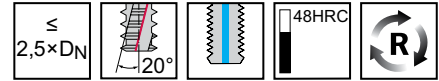
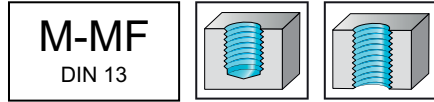
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹ machining conditions

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	●●	●●	●●	●●	●●		●

Tool	Designation	D_N	P mm	D_c mm	l_{z1} mm	L_c mm	l_4 mm	l_1 mm	d_1 h6 mm	Z	WB10TJ
<p>DIN 6535 HA</p>	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

C3

WALTER SELECT

●● Primary application ● Other application

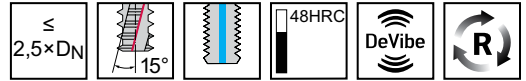
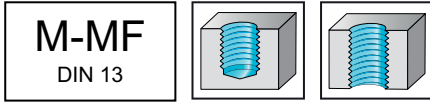
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹ machining conditions

Multiple-row thread milling cutters

TC620 Supreme

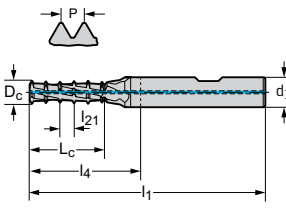


- Universal multiple-row thread milling cutters
- For high cutting speeds and high feeds per tooth



	P	M	K	N	S	H	O
WB10TJ	●●	●●	●●	●●	●●		●

Tool



DIN 6535 HB

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	☺

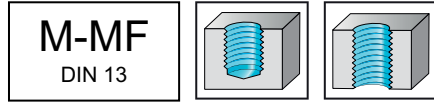
Ordering example for the grade WB10TJ: TC620-M10-W5E-WB10TJ

Solid carbide thread milling cutters

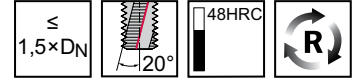
TC610 Supreme



– Universal thread milling cutters



M-MF
DIN 13



	P	M	K	N	S	H	O
WJ30RC	●●	●●	●●	●●	●●	●●	●

Tool	Designation	D _N	P mm	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RC
<p>DIN 6535 HB</p>	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

C3

WALTER
SELECT

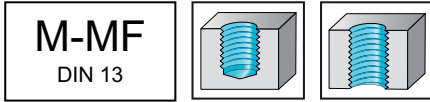
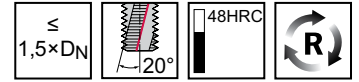
●● Primary application ● Other application
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ / ★ machining conditions

Solid carbide thread milling cutters

TC610 Supreme



- Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC	●●	●●	●●	●●	●●		●
WB10RD	●●	●●	●●	●●	●●		●

Tool	Designation	D _N	P mm	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	Application	
										WJ30RC	WB10RD
<p>DIN 6535 HB</p>	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

C3

WALTER SELECT ●● Primary application ● Other application

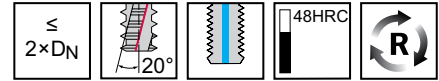
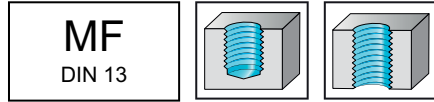
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

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	●●	●●	●●	●●	●●		●

Tool	Designation	D _N	P mm	D _c mm	l _{z1} mm	L _c mm	l ₄ mm	l ₁ mm	d ₁ h6 mm	Z	WB10TJ
	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

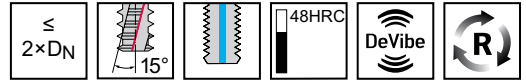
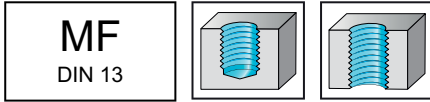
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹ machining conditions

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	●●	●●	●●	●●	●●		●

Tool		Designation	D _N	P mm	D _c mm	l _{z1} mm	L _c mm	l _k mm	l ₁ mm	d ₁ h6 mm	Z	WB10TJ
<p>DIN 6535 HB</p>		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

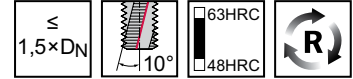
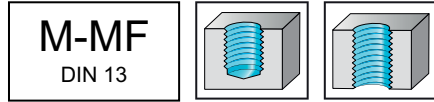
Solid carbide thread milling cutters

mm

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

mm

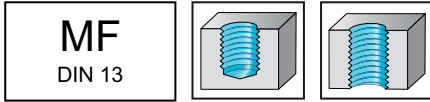
TMG HRC



– Thread milling cutters for hardened materials

$\leq 1,5 \times D_N$

63HRC
48HRC



	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

WALTER SELECT

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

C3

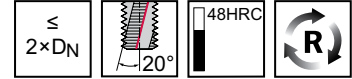
Solid carbide thread milling cutters

mm

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

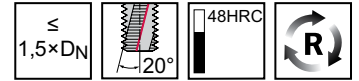
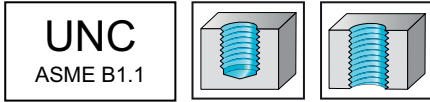
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

Solid carbide thread milling cutters

TC610 Supreme



– Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC	●●	●●	●●	●●	●●		●

Tool	Designation	Threads per inch	D _N	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RC
<p>DIN 6535 HB</p>	TC610-UNC1/4-W0-	20	UNC 1/4-20	4,8	10,2	57	21	6	3	☺
	TC610-UNC5/16-W0-	18	UNC 5/16-18	5,5	12,7	57	21	6	4	☺
	TC610-UNC3/8-W0-	16	UNC 3/8-16	7,5	14,3	63	27	8	4	☺
	TC610-UNC7/16-W0-	14	UNC 7/16-14	8	18,1	63	27	8	4	☺
	TC610-UNC1/2-W0-	13	UNC 1/2-13	10	19,5	72	32	10	4	☺
	TC610-UNC9/16-W0-	12	UNC 9/16-12	10	19,5	72	32	10	4	☺
	TC610-UNC5/8-W0-	11	UNC 5/8-11	12	25,4	83	38	12	5	☺
	TC610-UNC3/4-W0-	10	UNC 3/4-10	14	30,5	90	45	14	5	☺
	TC610-UNC1-W0-	8	UNC 1"-8	18	38,1	104	54	20	5	☺

Ordering example for the grade WJ30RC: TC610-UNC1-W0-WJ30RC

WALTER SELECT

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

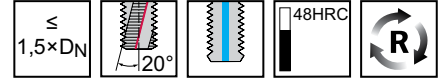
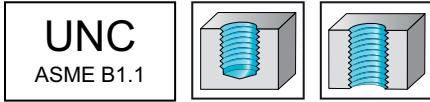
C3

Solid carbide thread milling cutters

TC610 Supreme



– Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC	●	●	●	●	●		●

Tool	Designation	Threads per inch	D _N	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RC
<p>DIN 6535 HB</p>	TC610-UNC1/4-W1-	20	UNC 1/4-20	4,8	10,2	57	21	6	3	☺
	TC610-UNC5/16-W1-	18	UNC 5/16-18	5,5	12,7	57	21	6	4	☺
	TC610-UNC3/8-W1-	16	UNC 3/8-16	7,5	14,3	63	27	8	4	☺
	TC610-UNC7/16-W1-	14	UNC 7/16-14	8	18,1	63	27	8	4	☺
	TC610-UNC1/2-W1-	13	UNC 1/2-13	10	19,5	72	32	10	4	☺
	TC610-UNC9/16-W1-	12	UNC 9/16-12	10	19,5	72	32	10	4	☺
	TC610-UNC5/8-W1-	11	UNC 5/8-11	12	25,4	83	38	12	5	☺
	TC610-UNC3/4-W1-	10	UNC 3/4-10	14	30,5	90	45	14	5	☺
	TC610-UNC7/8-W1-	9	UNC 7/8-9	16	33,9	98	50	16	5	☺
	TC610-UNC1-W1-	8	UNC 1"-8	18	38,1	104	54	20	5	☺

Ordering example for the grade WJ30RC: TC610-UNC1-W1-WJ30RC

C3

WALTER SELECT

●● Primary application ● Other application

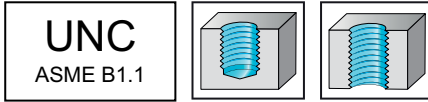
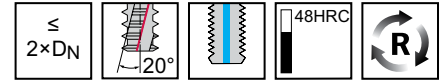
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹ machining conditions

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	●●	●●	●●	●●	●●		●

Tool	Designation	D _N	Threads per inch	D _c mm	l _{z1} mm	L _c mm	l _k mm	l ₁ mm	d ₁ h6 mm	Z	WB10TJ
<p>DIN 6535 HA</p>	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

WALTER SELECT

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

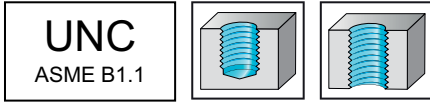
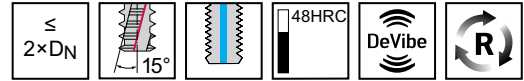
C3

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	●	●	●	●	●		●

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
<p>DIN 6535 HB</p>	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	☺

Ordering example for the grade WB10TJ: TC620-UNC1/2-W5D-WB10TJ

C3

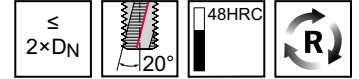
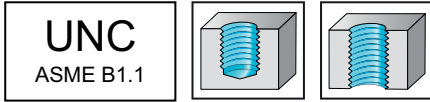
WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

Solid carbide thread milling cutters

TC611 Supreme



– Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC	●●	●●	●●	●●	●●		●

Tool	Designation	Threads per inch	D _N	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RC
<p>DIN 6535 HB</p>	TC611-UNC1/4-W0-	20	UNC 1/4-20	4,8	12,7	57	21	6	3	☺
	TC611-UNC5/16-W0-	18	UNC 5/16-18	5,5	16,9	57	21	6	4	☺
	TC611-UNC3/8-W0-	16	UNC 3/8-16	7,5	19,1	63	27	8	4	☺
	TC611-UNC7/16-W0-	14	UNC 7/16-14	8	23,6	68	32	8	4	☺
	TC611-UNC1/2-W0-	13	UNC 1/2-13	10	25,4	76	36	10	4	☺
	TC611-UNC9/16-W0-	12	UNC 9/16-12	10	29,6	80	40	10	4	☺
	TC611-UNC5/8-W0-	11	UNC 5/8-11	12	32,3	90	45	12	5	☺
	TC611-UNC3/4-W0-	10	UNC 3/4-10	14	38,1	98	53	14	5	☺
	TC611-UNC7/8-W0-	9	UNC 7/8-9	16	45,2	108	60	16	5	☺
	TC611-UNC1-W0-	8	UNC 1"-8	18	50,8	116	68	20	5	☺

Ordering example for the grade WJ30RC: TC611-UNC1-W0-WJ30RC

WALTER SELECT

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

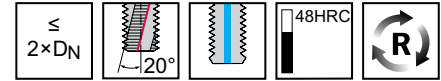
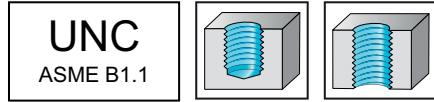
C3

Solid carbide thread milling cutters

TC611 Supreme



– Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC	●	●	●	●	●	●	●

Tool	Designation	Threads per inch	D _N	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RC
<p>DIN 6535 HB</p>	TC611-UNC1/4-W1-	20	UNC 1/4-20	4,8	12,7	57	21	6	3	☺
	TC611-UNC5/16-W1-	18	UNC 5/16-18	5,5	16,9	57	21	6	4	☺
	TC611-UNC3/8-W1-	16	UNC 3/8-16	7,5	19,1	63	27	8	4	☺
	TC611-UNC7/16-W1-	14	UNC 7/16-14	8	23,6	68	32	8	4	☺
	TC611-UNC1/2-W1-	13	UNC 1/2-13	10	25,4	76	36	10	4	☺
	TC611-UNC9/16-W1-	12	UNC 9/16-12	10	29,6	80	40	10	4	☺
	TC611-UNC5/8-W1-	11	UNC 5/8-11	12	32,3	90	45	12	5	☺
	TC611-UNC3/4-W1-	10	UNC 3/4-10	14	38,1	98	53	14	5	☺
	TC611-UNC7/8-W1-	9	UNC 7/8-9	16	45,2	108	60	16	5	☺
	TC611-UNC1-W1-	8	UNC 1"-8	18	50,8	116	68	20	5	☺

Ordering example for the grade WJ30RC: TC611-UNC1-W1-WJ30RC

C3

WALTER SELECT

●● Primary application ● Other application

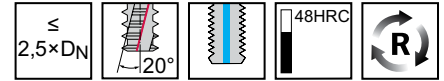
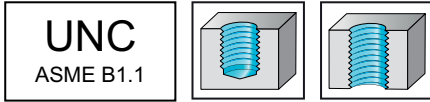
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹ machining conditions

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	●●	●●	●●	●●	●●		●

Tool	Designation	D _N	Threads per inch	D _c mm	l _{z1} 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

C3

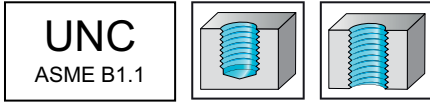
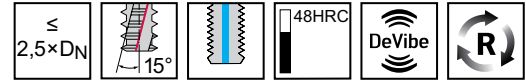
●● Primary application ● Other application
 Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹ machining conditions

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	●	●	●	●	●		●

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
<p>DIN 6535 HB</p>	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	☺

Ordering example for the grade WB10TJ: TC620-UNC1/2-W5E-WB10TJ

C3

WALTER SELECT ●● Primary application ● Other application

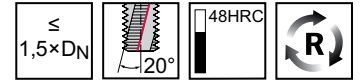
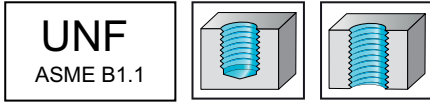
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

Solid carbide thread milling cutters

TC610 Supreme



– Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC	●●	●●	●●	●●	●●		●

Tool		Designation	Threads per inch	D _N	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RC
<p>DIN 6535 HB</p>		TC610-UNF10-W0-	32	UNF #10-32	3,6	7,9	57	21	6	3	☺
		TC610-UNF1/4-W0-	28	UNF 1/4-28	4,8	10	57	21	6	4	☺
		TC610-UNF5/16-W0-	24	UNF 5/16-24	6	12,7	57	21	6	4	☺
		TC610-UNF7/16-W0-	20	UNF 7/16-20	8	17,8	63	27	8	4	☺
		TC610-UNF9/16-W0-	18	UNF 9/16-18	10	22,6	72	32	10	5	☺
		TC610-UNF3/4-W0-	16	UNF 3/4-16	14	28,6	88	43	14	6	☺

Ordering example for the grade WJ30RC: TC610-UNF1/4-W0-WJ30RC

C3

WALTER SELECT

●● Primary application ● Other application

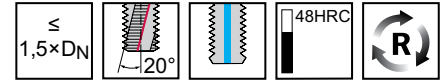
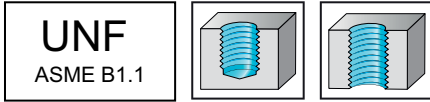
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹ machining conditions

Solid carbide thread milling cutters

TC610 Supreme



– Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC	●●	●●	●●	●●	●●		●

Tool	Designation	Threads per inch	D_N	D_c mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	WJ30RC
<p>DIN 6535 HB</p>	TC610-UNF10-W1-	32	UNF #10-32	3,6	7,9	57	21	6	3	☺
	TC610-UNF1/4-W1-	28	UNF 1/4-28	4,8	10	57	21	6	4	☺
	TC610-UNF5/16-W1-	24	UNF 5/16-24	6	12,7	57	21	6	4	☺
	TC610-UNF7/16-W1-	20	UNF 7/16-20	8	17,8	63	27	8	4	☺
	TC610-UNF9/16-W1-	18	UNF 9/16-18	10	22,6	72	32	10	5	☺
	TC610-UNF3/4-W1-	16	UNF 3/4-16	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

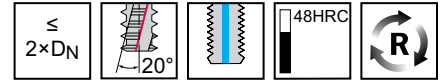
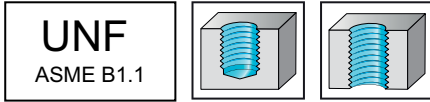
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹ machining conditions

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	●●	●●	●●	●●	●●		●

Tool		Designation	D _N	Threads per inch	D _c mm	l _{z1} mm	L _c mm	l ₄ mm	l ₁ mm	d ₁ h6 mm	Z	WB10TJ
		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

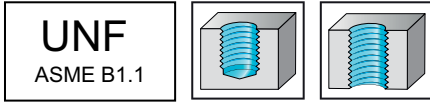
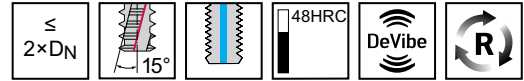
●● Primary application ● Other application
 Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹ machining conditions

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	●	●	●	●	●		●

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
<p>DIN 6535 HB</p>	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	☺

Ordering example for the grade WB10TJ: TC620-UNF1/2-W5D-WB10TJ

C3

WALTER SELECT

●● Primary application ● Other application

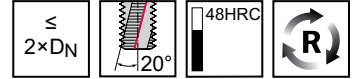
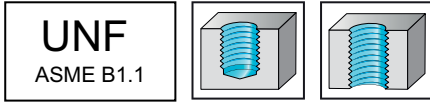
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹ machining conditions

Solid carbide thread milling cutters

TC611 Supreme



– Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC	●●	●●	●●	●●	●●		●

Tool		Designation	Threads per inch	D _N	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RC
<p>DIN 6535 HB</p>		TC611-UNF10-W0-	32	UNF #10-32	3,6	10,3	57	21	6	3	☺
		TC611-UNF1/4-W0-	28	UNF 1/4-28	4,8	12,7	57	21	6	4	☺
		TC611-UNF5/16-W0-	24	UNF 5/16-24	6	15,9	57	21	6	4	☺
		TC611-UNF7/16-W0-	20	UNF 7/16-20	8	22,9	68	32	8	4	☺
		TC611-UNF9/16-W0-	18	UNF 9/16-18	10	29,6	80	40	10	5	☺
		TC611-UNF3/4-W0-	16	UNF 3/4-16	14	38,1	98	53	14	6	☺

Ordering example for the grade WJ30RC: TC611-UNF1/4-W0-WJ30RC

WALTER SELECT

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

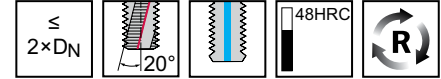
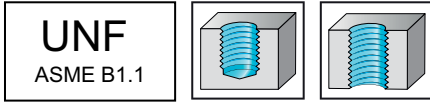
C3

Solid carbide thread milling cutters

TC611 Supreme



- Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC	●●	●●	●●	●●	●●		●

Tool	Designation	Threads per inch	D _N	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RC
<p>DIN 6535 HB</p>	TC611-UNF10-W1-	32	UNF #10-32	3,6	10,3	57	21	6	3	☺
	TC611-UNF1/4-W1-	28	UNF 1/4-28	4,8	12,7	57	21	6	4	☺
	TC611-UNF5/16-W1-	24	UNF 5/16-24	6	15,9	57	21	6	4	☺
	TC611-UNF7/16-W1-	20	UNF 7/16-20	8	22,9	68	32	8	4	☺
	TC611-UNF9/16-W1-	18	UNF 9/16-18	10	29,6	80	40	10	5	☺
	TC611-UNF3/4-W1-	16	UNF 3/4-16	14	38,1	98	53	14	6	☺

Ordering example for the grade WJ30RC: TC611-UNF1/4-W1-WJ30RC

C3

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ / ★ machining conditions

Solid carbide thread milling cutters

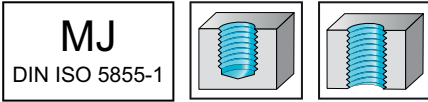
mm

TMG Ni



- Thread milling cutters for nickel alloys

$\leq 1,5 \times D_N$



	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

WALTER SELECT

●● Primary application ● Other application

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

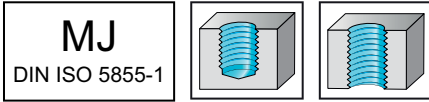
Solid carbide thread milling cutters

mm

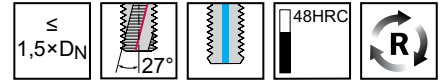
TMG Ni



- Thread milling cutters for nickel alloys



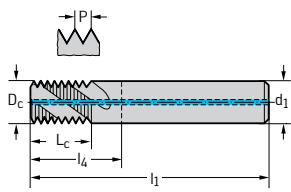
MJ
DIN ISO 5855-1



	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
H5036016-MJ8	MJ 8	6,3	12,5	58	22	8	4
H5036016-MJ10	MJ 10	7,5	15	58	22	8	4



DIN 6535 HA

C3

WALTER SELECT ●● Primary application ● Other application

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

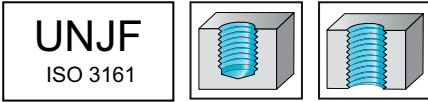
Solid carbide thread milling cutters

mm

TMG Ni



– Thread milling cutters for nickel alloys



TICN	P	M	K	N	S	H	O
	●●	●●	●●	●	●●		●

Tool	Designation	Threads per inch	D _N	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
	H5336006-UNJF10	32	UNJF #10-32	3,6	7,9	54	18	6	3
	H5336006-UNJF1/4	28	UNJF 1/4-28	4,8	10	54	18	6	3

DIN 6535 HA

C3

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

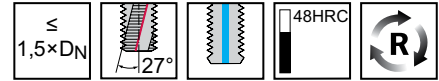
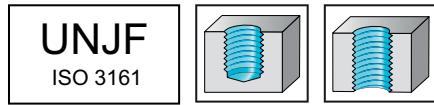
Solid carbide thread milling cutters

mm

TMG Ni



- Thread milling cutters for nickel alloys



	P	M	K	N	S	H	O
TICN	●●	●●	●●	●	●●	●	●

Tool		Designation	Threads per inch	D _N	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
		H5336016-UNJF5/16	24.0	UNJF 5/16-24	6,2	12,7	58	22	8	3
		H5336016-UNJF3/8	24.0	UNJF 3/8-24	8	14,8	58	22	8	3
		H5336016-UNJF7/16	20.0	UNJF 7/16-20	9,2	17,8	72	26	10	4
		H5336016-UNJF1/2	20.0	UNJF 1/2-20	10,5	19,1	73	28	12	4

DIN 6535 HA

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

G (BSP)
DIN EN ISO 228

Rp
DIN EN 10226-1

WJ30RC

≤
1,5×DN

48HRC

P

M

K

N

S

H

O

Tool	Designation	Threads per inch	D _N	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RC
	TC610-G1/8-W0-	28	G 1/8-28	6	15,4	57	21	6	5	☺
	TC610-G1/4-W0-	19	G 1/4-19	10	20,1	72	32	10	5	☺
	TC610-G3/8-W0-	19	G 3/8-19	14	25,4	83	38	14	7	☺
	TC610-G1/2-W0-	14	G 1/2-14	16	32,7	96	44	16	6	☺
	TC610-G1X20-W0-	11	G 1"-11	20	50,8	120	75	20	6	☺

DIN 6535 HB

Ordering example for the grade WJ30RC: TC610-G1/2-W0-WJ30RC

**WALTER
SELECT**

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

C3

Solid carbide thread milling cutters

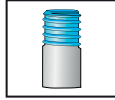
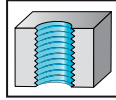
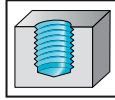
TC610 Supreme



- Universal thread milling cutters

G (BSP)
DIN EN ISO 228

Rp
DIN EN 10226-1



$\leq 1,5 \times D_N$



48HRC



P	M	K	N	S	H	O
●●	●●	●●	●●	●●	●●	●●

Tool	Designation	Threads per inch	D_N	D_c mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	WJ30RC
	TC610-G1/8-W1-	28	G 1/8-28	6	15,4	57	21	6	5	☺
	TC610-G1/4-W1-	19	G 1/4-19	10	20,1	72	32	10	5	☺
	TC610-G3/8-W1-	19	G 3/8-19	14	25,4	83	38	14	7	☺
	TC610-G1/2-W1-	14	G 1/2-14	16	32,7	96	44	16	6	☺
	TC610-G1X20-W1-	11	G 1"-11	20	50,8	120	75	20	6	☺

DIN 6535 HB

Ordering example for the grade WJ30RC: TC610-G1/2-W1-WJ30RC

C3

WALTER SELECT

Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ / ★

●● Primary application ● Other application

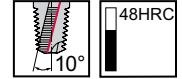
Solid carbide thread milling cutters

mm

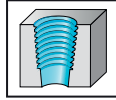
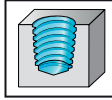
TMG



– Universal thread milling cutters



NPT
ASME B1.20.1



TICN	P	M	K	N	S	H	O
	●●	●●	●●	●●	●●		●

Tool	Designation	D _N	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
<p>DIN 6535 HB</p>	H5551106-NPT1/16	NPT 1/16-27	5,5	11,03	57	21	6	3
	H5551106-NPT1/8	NPT 1/8-27	7,9	11,03	58	22	8	3
	H5551106-NPT1/4-3/8	NPT 1/4-3/8-18	9,9	15,21	66	26	10	3
	H5551106-NPT1/2-3/4	NPT 1/2-3/4-14	15,9	19,55	82	34	16	4
	H5551106-NPT1-2	NPT 1-2-1/2	19,9	26,02	92	42	20	5

C3

WALTER SELECT ●● Primary application ● Other application

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

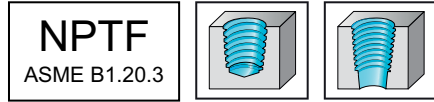
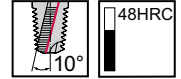
Solid carbide thread milling cutters

mm

TMG



– Universal thread milling cutters



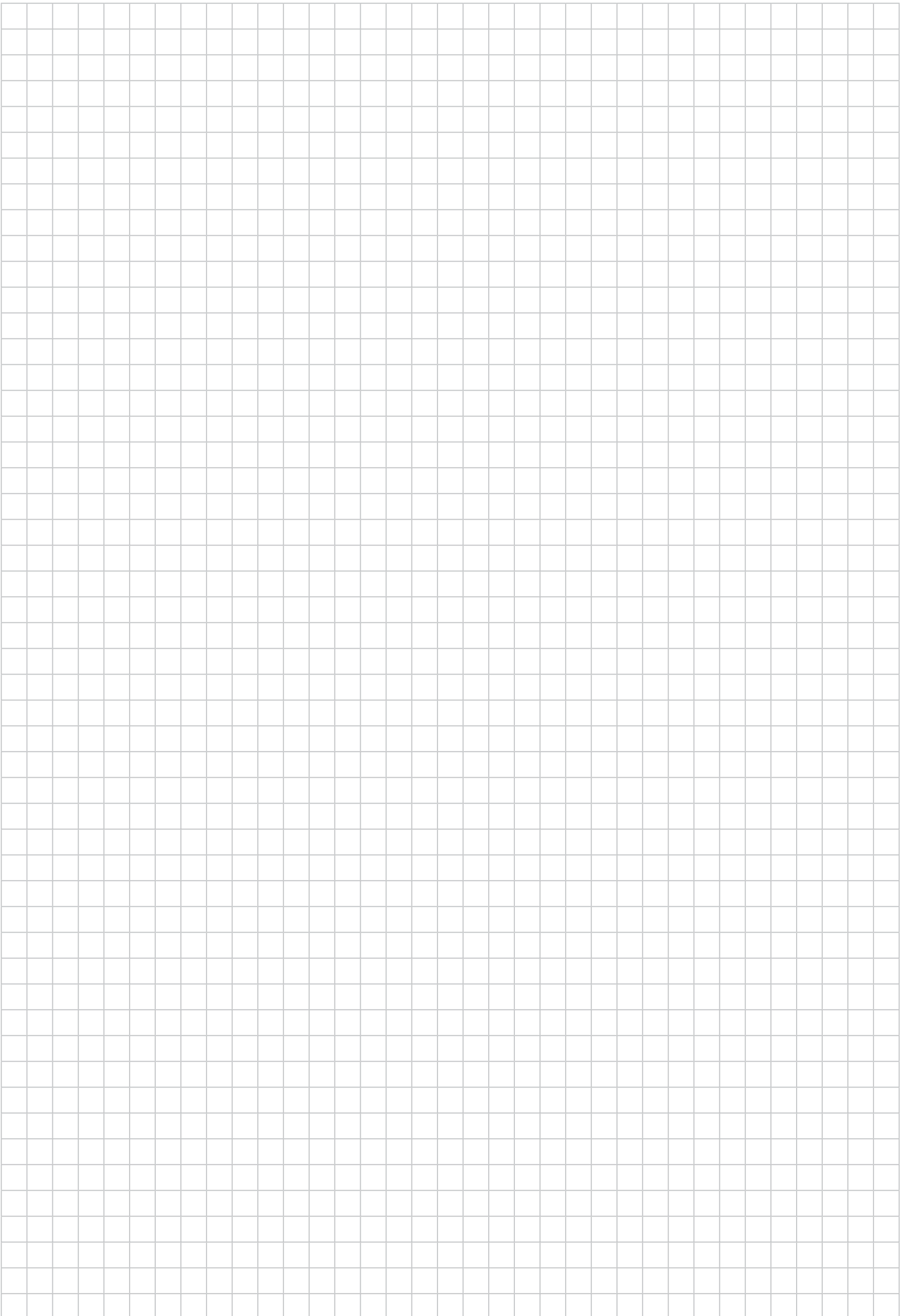
	P	M	K	N	S	H	O
TICN	●●	●●	●●	●●	●●	●●	●

Tool	Designation	D _N	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
<p>DIN 6535 HB</p>	H5651106-NPTF1/16	NPTF 1/16-27	5,5	11,03	57	21	6	3
	H5651106-NPTF1/8	NPTF 1/8-27	7,9	11,03	58	22	8	3
	H5651106-NPTF1/4-3/8	NPTF 1/4-3/8-18	9,9	15,21	66	26	10	3
	H5651106-NPTF1/2-3/4	NPTF 1/2-3/4-14	15,9	19,55	82	34	16	4
	H5651106-NPTF1-2	NPTF 1-2-1/2	19,9	26,02	92	42	20	5

C3

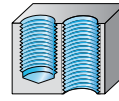
WALTER SELECT ●● Primary application ● Other application

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



Orbital thread milling cutters

Machining



Thread depth

2 x D_N

2 x D_N

2,5 x D_N

3 x D_N

4 x D_N

NEW

NEW

NEW



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

Indexable inserts basic shape

✓

✓

✓

✓

✓

Additional services

Coolant supply

External / axial

External

External

External / axial

axial

Coating / grade

WB10RA / WB10TJ

TAX

WB10TJ

WB10TJ

WB10TJ

Cutting tool material

VHM

VHM

VHM

VHM

VHM

P Steel

●●

●●

●●

●●

●●

M Stainless steel

●●

●●

●●

●●

●●

K Cast iron

●●

●●

●●

●●

●●

N NF metals

●●

●●

●●

●●

●●

S Materials with difficult cutting properties

●●

●

●●

●●

●●

H Hard materials

●●

●●

●●

●●

●●

O Other

●

●

●

●

●●

Page in catalogue

C 417

C 424

C 425

C 419

C 422

QR code



www.walter-tools.com/woc/

TC630

tmo-hrc

TC630

TC630

TC630

WALTER SELECT

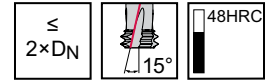
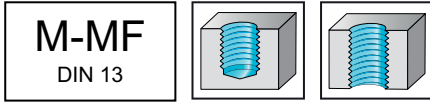
●● Primary application ● Other application

Solid carbide orbital thread mills

TC630 Supreme



– Universal orbital thread milling cutters



	P	M	K	N	S	H	O
WB10TJ	●●	●●	●●	●●	●●		●

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
<p>DIN 6535 HA</p>	★ TC630-M1.2-A0D-	M 1.2	0,25	0,9	0,25	2,525	38	10	3	4	☹
	★ TC630-M1.4-A0D-	M 1.4	0,3	1,05	0,3	2,95	38	10	3	4	☹
	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-M1.2-A0D-WB10TJ

C3

WALTER SELECT

●● Primary application ● Other application

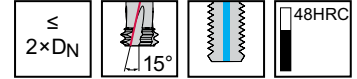
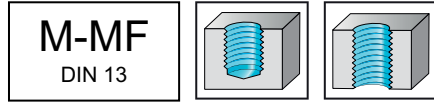
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

Solid carbide orbital thread mills

TC630 Supreme



- Universal orbital thread milling cutters



	P	M	K	N	S	H	O
WB10TJ	●●	●●	●●	●●	●●	●●	●

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
<p>DIN 6535 HA</p>		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

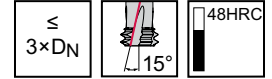
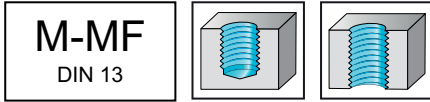
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide orbital thread mills

TC630 Supreme



– Universal orbital thread milling cutters



	P	M	K	N	S	H	O
WB10TJ	●●	●●	●●	●●	●●	●●	●

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
<p>DIN 6535 HA</p>	★ TC630-M1.2-A0F-	M 1.2	0,25	0,9	0,25	3,725	38	10	3	4	☹
	★ TC630-M1.4-A0F-	M 1.4	0,3	1,05	0,3	4,35	38	10	3	4	☹
	TC630-M1.6-A0F-	M 1.6	0,35	1,2	0,7	5,33	38	10	3	4	☹
	TC630-M1.8-A0F-	M 1.8	0,35	1,35	0,7	5,58	38	10	3	4	☹
	TC630-M2-A0F-	M 2	0,4	1,55	1,2	6,6	57	21	6	4	☹
	TC630-M2.2-A0F-	M 2.2	0,45	1,65	1,35	6,83	57	21	6	4	☹
	TC630-M2.5-A0F-	M 2.5	0,45	1,95	1,35	8,18	57	21	6	4	☹
	TC630-M3-A0F-	M 3	0,5	2,3	1,5	9,75	57	21	6	4	☹
	TC630-M3.5-A0F-	M 3.5	0,6	2,7	1,8	10,8	57	21	6	4	☹
	TC630-M4-A0F-	M 4	0,7	3,1	2,1	13,05	57	21	6	4	☹
	TC630-M4.5-A0F-	M 4.5	0,75	3,5	2,25	13,88	57	21	6	4	☹
	TC630-M5-A0F-	M 5	0,8	4	2,4	16,2	57	21	6	4	☹
	TC630-M6-A0F-	M 6	1	4,8	3	19,5	57	22	6	4	☹
	TC630-M8-A0F-	M 8	1,25	6,4	3,75	25,88	63	29	8	4	☹

Ordering example for the grade WB10TJ: TC630-M1.2-A0F-WB10TJ

WALTER SELECT

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

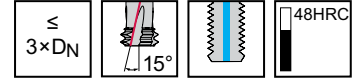
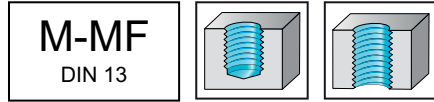
C3

Solid carbide orbital thread mills

TC630 Supreme



- Universal orbital thread milling cutters



	P	M	K	N	S	H	O
WB10TJ	●●	●●	●●	●●	●●	●●	●

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

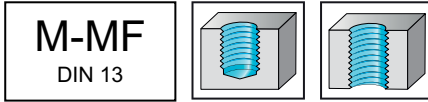
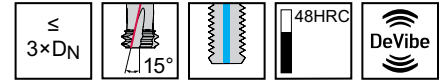
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

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	●●	●●	●●	●●	●●		●

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
<p>DIN 6535 HA</p>		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

WALTER SELECT

●● Primary application ● Other application

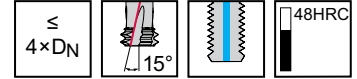
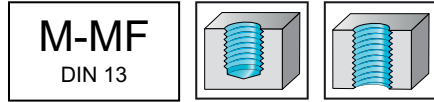
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹ machining conditions

Solid carbide orbital thread mills

TC630 Supreme



- Universal orbital thread milling cutters



	P	M	K	N	S	H	O
WB10TJ	●●	●●	●●	●●	●●	●●	●●

Tool		Designation	D _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
		★ TC630-M3-A1H-	2,3	12,25	44	16	4	4	☒
DIN 6535 HA									

Ordering example for the grade WB10TJ: TC630-M3-A1H-WB10TJ

C3

WALTER SELECT

●● Primary application ● Other application

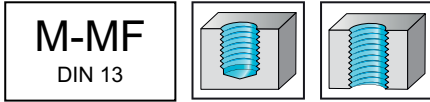
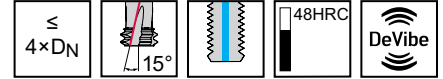
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

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	●●	●●	●●	●●	●●		●

Tool	Designation	D _N	P mm	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h8 mm	Z	WB10TJ
<p>DIN 6535 HA</p>	★ TC630-M4-A5H-	M 4	0,7	3,1	2,1	16,35	57	21	6	4	☹
	★ TC630-M5-A5H-	M 5	0,8	4	2,4	20,4	57	21	6	4	☹
	★ TC630-M6-A5H-	M 6	1	4,8	3	24,5	65	29	6	4	☹
	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	☹

Ordering example for the grade WB10TJ: TC630-M10-A5H-WB10TJ

WALTER SELECT ●● Primary application ● Other application

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

C3

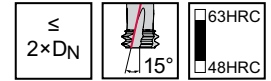
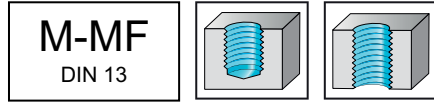
Solid carbide orbital thread mills

mm

TMO HRC



– Orbital thread milling cutters for hardened materials



	P	M	K	N	S	H	O
TAX	●●		●●		●	●●	●

Tool		P	D _c	L _c	l ₃	d ₂	l ₁	l ₄	d ₁ h6	Z
Designation		mm	mm	mm	mm	mm	mm	mm	mm	
	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
	H5083008-M6	1	4,8	1,5	13,5	3,4	57	21	6	4

DIN 6535 HA

C3

WALTER SELECT ●● Primary application ● Other application

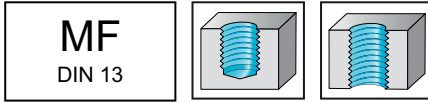
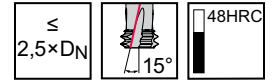
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

Solid carbide orbital thread mills

TC630 Supreme



- Universal orbital thread milling cutters



	P	M	K	N	S	H	O
WB10TJ	●●	●●	●●	●●	●●		●

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
<p>DIN 6535 HA</p>		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

C3

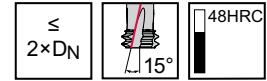
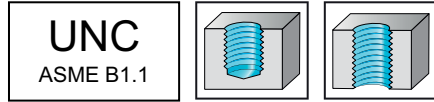
●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

Solid carbide orbital thread mills

TC630 Supreme



- Universal orbital thread milling cutters



	P	M	K	N	S	H	O
WB10TJ	●●	●●	●●	●●	●●	●●	●

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
<p>DIN 6535 HA</p>	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

C3

WALTER SELECT ●● Primary application ● Other application

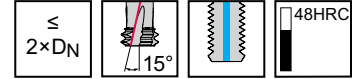
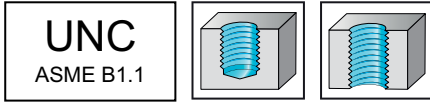
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide orbital thread mills

TC630 Supreme



– Universal orbital thread milling cutters



	P	M	K	N	S	H	O
WB10TJ	●●	●●	●●	●●	●●		●

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

WALTER SELECT

Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹ machining conditions

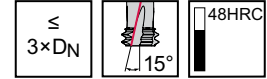
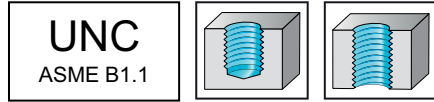
●● Primary application ● Other application

Solid carbide orbital thread mills

TC630 Supreme



- Universal orbital thread milling cutters



	P	M	K	N	S	H	O
WB10TJ	●●	●●	●●	●●	●●	●●	●

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
<p>DIN 6535 HA</p>	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

C3

WALTER SELECT ●● Primary application ● Other application

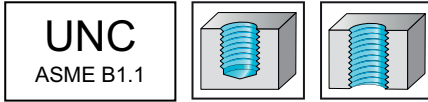
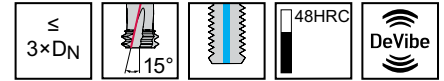
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

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	●●	●●	●●	●●	●●		●

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
<p>DIN 6535 HA</p>		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	☺

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

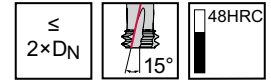
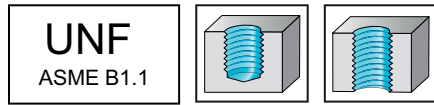
C3

Solid carbide orbital thread mills

TC630 Supreme



- Universal orbital thread milling cutters



	P	M	K	N	S	H	O
WB10TJ	●●	●●	●●	●●	●●		●

Tool											WB10TJ
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		
 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

C3

WALTER SELECT ●● Primary application ● Other application

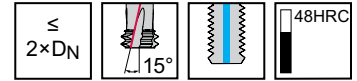
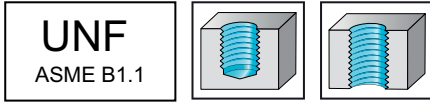
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide orbital thread mills

TC630 Supreme



– Universal orbital thread milling cutters



	P	M	K	N	S	H	O
WB10TJ	●●	●●	●●	●●	●●		●

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

WALTER SELECT

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

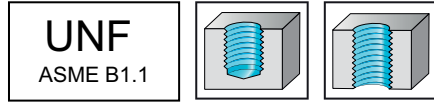
C3

Solid carbide orbital thread mills

TC630 Supreme



- Universal orbital thread milling cutters



	P	M	K	N	S	H	O
WB10TJ	●●	●●	●●	●●	●●		●

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
<p>DIN 6535 HA</p>	★ TC630-UNF0-A0F-	UNF #0-80	80	1,15	0,32	4,735	38	10	3	4	★
	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-UNF0-A0F-WB10TJ

C3

WALTER SELECT ●● Primary application ● Other application

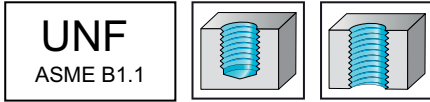
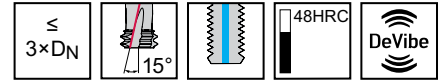
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

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	●●	●●	●●	●●	●●		●

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

WALTER SELECT

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

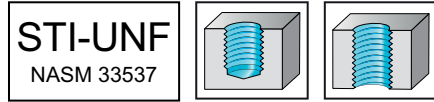
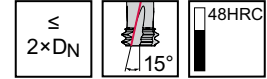
C3

Solid carbide orbital thread mills

TC630 Supreme

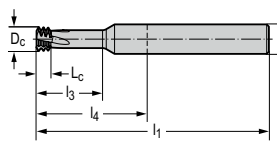


- Specialist for aerospace industry
- Ideal for engine components



	P	M	K	N	S	H	O
WB10RA	●	●●	●	●	●●		●

Tool											WB10RA
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		
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-SUNF5/16A0D-	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

Thread milling cutters with indexable insert

Machining				
Thread depth	1,5 x D _N	2 x D _N	2,5 x D _N	3 x D _N



Designation	T2710	T2711	T2712	T2713
Thread type				
M	✓	✓	✓	✓
MF	✓	✓	✓	✓
UNC / UNF / UN-8	✓	✓	✓	✓
G / Rc / Rp			✓	✓
MJ / UNJC / UNJF				
NPT / NPTF				
Pg / BSW / Tr				
Indexable inserts basic shape	✓	✓	✓	✓
Additional services				
Coolant supply	radial	radial	radial	radial
Coating / grade				
Cutting tool material	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 catalogue	C 436	C 440	C 448	C 452
QR code				
www.walter-tools.com/woc/	T2710	T2711	T2712	T2713

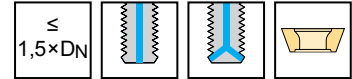
C3

Indexable insert thread milling cutter

T2710 mm



- 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	P26300-09 ..
	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-sided coolant screw for blind hole machining | Bodies and assembly parts are included in the scope of delivery

C3

Assembly parts

D _c [mm]	16,5–19	24–29	35	40–52
Clamping screw for indexable insert Tightening torque	FS2147 (T6IP) 0,6 Nm	FS2111 (T7IP) 0,9 Nm	FS2061 (T7IP) 0,9 Nm	FS1457 (T9IP) 2 Nm

Accessories

D _c [mm]	16,5–19	24–35	40–52
Torque screwdriver, analogue	FS2001	FS2001	FS2003
Torque screwdriver, digital			FS2248
Interchangeable blade	FS2085 (T6IP)	FS2011 (T7IP)	FS2013 (T9IP)
Screwdriver	FS2086 (T6IP)	FS2088 (T7IP)	FS1484 (T9IP)

Indexable inserts

Designation	Size	r mm	Pitch (P) mm	Lead (TPI) in	l mm	Number of cutting edges	P		M		K		N		S		H	
							WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S		
	P26300-0601-D61	06	0,1	1.40–2.9	18–9	6,73	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-0602-D61	06	0,2	3.00–3.2	8–8	6,58	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-0901-D61	09	0,1	1.40–2.9	18–9	9,48	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-0902-D61	09	0,2	3.00–4.3	8–6	9,34	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-1101-D61	11	0,1	1.40–2.9	18–9	10,85	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-1102-D61	11	0,2	3.00–4.5	8–6	10,71	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-1401-D61	14	0,1	1.40–2.9	18–9	13,87	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-1402-D61	14	0,2	3.00–5.2	8–5	13,72	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
P26300-1404-D61	14	0,4	5.50–6.4	5–4	13,43	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	
	P26300-0601-D67	06	0,1	1.40–2.9	18–9	6,73	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-0602-D67	06	0,2	3.00–3.2	8–8	6,58	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-0901-D67	09	0,1	1.40–2.9	18–9	9,48	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-0902-D67	09	0,2	3.00–4.3	8–6	9,34	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-1102-D67	11	0,2	3.00–4.5	8–6	10,71	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-1401-D67	14	0,1	1.40–2.9	18–9	13,87	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-1402-D67	14	0,2	3.00–5.2	8–5	13,72	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-1404-D67	14	0,4	5.50–6.4	5–4	13,43	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑

HC = beschichtetes Hartmetall

WALTER SELECT

Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = ☹ → Moderate = ☹

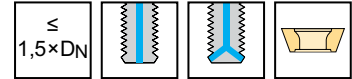
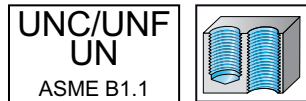
☑ ☑ ☑ / * = New addition to the product range

C3

Indexable insert thread milling cutter

T2710 mm


- Universal indexable insert thread milling cutter
- Radius correction values: Walter GPS/Technical information


 $\leq 1,5 \times D_N$

	P	M	K	N	S	H	O
T2710	●	●	●	●	●	●	●

Tool	Designation	D _N	P _{max,T} PI 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	
	T2710-43-W40-4-09-3-25.4	UN 2-6	6	43	25,4	80,7	160	40	4	12	

Adjustable coolant supply: remove front-sided coolant screw for blind hole machining | Bodies and assembly parts are included in the scope of delivery

C3

WALTER SELECT

Stability of machine, workpiece and clamping arrangement → Very good = 😊 → Good = 😊 → Moderate = 😊

Assembly parts

	D _c [mm]	18–20	26–43
	Clamping screw for indexable insert Tightening torque	FS2147 (T6IP) 0,6 Nm	FS2111 (T7IP) 0,9 Nm

Accessories

	D _c [mm]	18–20	26–43
	Torque screwdriver, analogue	FS2001	FS2001
	Interchangeable blade	FS2085 (T6IP)	FS2011 (T7IP)
	Screwdriver	FS2086 (T6IP)	FS2088 (T7IP)

Indexable inserts

Designation	Size	r mm	Pitch (P) mm	Lead (TPI) in	l mm	Number of cutting edges	P		M		K		N		S		H	
							HC	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G
 P26300-0601-D61 P26300-0602-D61 P26300-0901-D61 P26300-0902-D61	06	0,1	1.40–2.9	18–9	6,73	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	06	0,2	3.00–3.2	8–8	6,58	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	09	0,1	1.40–2.9	18–9	9,48	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	09	0,2	3.00–4.3	8–6	9,34	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
 P26300-0601-D67 P26300-0602-D67 P26300-0901-D67 P26300-0902-D67	06	0,1	1.40–2.9	18–9	6,73	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	06	0,2	3.00–3.2	8–8	6,58	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	09	0,1	1.40–2.9	18–9	9,48	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	09	0,2	3.00–4.3	8–6	9,34	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑

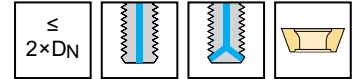
HC = beschichtetes Hartmetall

Indexable insert thread milling cutter

T2711 mm



- 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_{z1} mm	l_3 mm	l_1 mm	d_1 mm	Z	Number of cutting edges	Type
 DIN 1835 B	T2711-13-W16-1-06	M 16	2	13		35	92	16	1	1	P26300-06 ..
	T2711-15-W16-2-06	M 18	2,5	14,5		39	95	16	2	2	P26300-06 ..
 DIN 1835 B	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	P26300-09 ..
 DIN 1835 B	T2711-29-W32-3-09-3-24	M 36	4	29	24	72,1	149	32	3	9	P26300-11 ..
	T2711-35-W32-3-11-3-27	M 42	4,5	35	27	89,5	160	32	3	9	P26300-14 ..
	T2711-40-W40-3-14-3-30	M 48	5	40	30	103	187	40	3	9	
	T2711-44-W40-3-14-3-33	M 56	5,5	44	33	119	202	40	3	9	

Adjustable coolant supply: remove front-sided coolant screw for blind hole machining | Bodies and assembly parts are included in the scope of delivery

C3

WALTER SELECT

Stability of machine, workpiece and clamping arrangement → Very good = 😊 → Good = 😊 → Moderate = 😊

Assembly parts

D _c [mm]	13-19	24-29	35	40-52
	Clamping screw for indexable insert Tightening torque	FS2147 (T6IP) 0,6 Nm		
	Clamping screw for indexable insert		FS2111 (T7IP) 0,9 Nm	FS2061 (T7IP) 0,9 Nm
				FS1457 (T9IP) 2 Nm

Accessories

D _c [mm]	13-19	24-35	40-52
	Torque screwdriver, analogue	FS2001	FS2001
	Torque screwdriver, digital		FS2248
	Interchangeable blade	FS2085 (T6IP)	FS2011 (T7IP)
	Screwdriver	FS2086 (T6IP)	FS2088 (T7IP)
			FS1484 (T9IP)

Indexable inserts

Designation	Size	r mm	Pitch (P) mm	Lead (TPI) in	l mm	Number of cutting edges	P		M		K		N		S		H	
							HC		HC		HC		HC		HC		HC	
							WSM376	WSM375	WSM376	WSM375	WSM376	WSM375	WSM376	WSM375	WSM376	WSM375	WSM376	WSM375
P26300-0601-D61	06	0,1	1.40-2.9	18-9	6,73	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P26300-0602-D61	06	0,2	3.00-3.2	8-8	6,58	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P26300-0901-D61	09	0,1	1.40-2.9	18-9	9,48	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P26300-0902-D61	09	0,2	3.00-4.3	8-6	9,34	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P26300-1401-D61	14	0,1	1.40-2.9	18-9	13,87	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P26300-1402-D61	14	0,2	3.00-5.2	8-5	13,72	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P26300-1404-D61	14	0,4	5.50-6.4	5-4	13,43	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P26300-1101-D61	11	0,1	1.40-2.9	18-9	10,85	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P26300-1102-D61	11	0,2	3.00-4.5	8-6	10,71	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P26300-0601-D67	06	0,1	1.40-2.9	18-9	6,73	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P26300-0602-D67	06	0,2	3.00-3.2	8-8	6,58	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P26300-0901-D67	09	0,1	1.40-2.9	18-9	9,48	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P26300-0902-D67	09	0,2	3.00-4.3	8-6	9,34	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P26300-1401-D67	14	0,1	1.40-2.9	18-9	13,87	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P26300-1402-D67	14	0,2	3.00-5.2	8-5	13,72	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P26300-1404-D67	14	0,4	5.50-6.4	5-4	13,43	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P26300-1102-D67	11	0,2	3.00-4.5	8-6	10,71	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = beschichtetes Hartmetall

WALTER SELECT

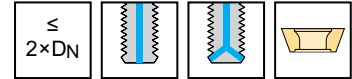
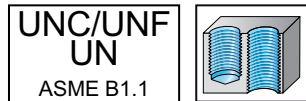
Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = ☹ → Moderate = ☹

Indexable insert thread milling cutter

T2711 mm



- 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} PI 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	T2711-16-W16-2-06	UNC 3/4-10	10	15,5		41	97	16	2	2	P26300-06 ..
	T2711-18-W16-3-06-2-25.4	UNC 7/8-9	9	18	25,4	47,5	103	16	3	6	P26300-06 ..
 DIN 1835 B	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-sided coolant screw for blind hole machining | Bodies and assembly parts are included in the scope of delivery

C3

WALTER SELECT

Stability of machine, workpiece and clamping arrangement → Very good = 😊 → Good = 😊 → Moderate = 😊

Assembly parts

D _c [mm]		15,5–20	26–31
	Clamping screw for indexable insert	FS2147 (T6IP)	
	Tightening torque	0,6 Nm	
	Clamping screw for indexable insert		FS2111 (T7IP) 0,9 Nm

Accessories

D _c [mm]		15,5–20	26–31
	Torque screwdriver, analogue	FS2001	FS2001
	Interchangeable blade	FS2085 (T6IP)	FS2011 (T7IP)
	Screwdriver	FS2086 (T6IP)	FS2088 (T7IP)

Indexable inserts

Designation	Size	r mm	Pitch (P) mm	Lead (TPI) in	l mm	Number of cutting edges	P		M		K		N		S		H	
							HC	WSM376	HC	WSM376	HC	WSM376	HC	WSM376	HC	WSM376	HC	WSM376
	P26300-0601-D61	06	1.40–2.9	18–9	6,73	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-0602-D61	06	3.00–3.2	8–8	6,58	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-0901-D61	09	1.40–2.9	18–9	9,48	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-0902-D61	09	3.00–4.3	8–6	9,34	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-0601-D67	06	1.40–2.9	18–9	6,73	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-0602-D67	06	3.00–3.2	8–8	6,58	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-0901-D67	09	1.40–2.9	18–9	9,48	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-0902-D67	09	3.00–4.3	8–6	9,34	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑

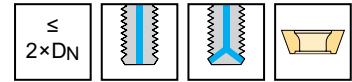
HC = beschichtetes Hartmetall

Indexable insert thread milling cutter

T2711 / T2712 inch



- 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,T} PI in	D _c inch	l ₂₁ inch	l ₃ inch	l ₁ inch	d ₁ inch	Z	Number of cutting edges	Type
 DIN 1835 B	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 ..
 DIN 1835 B	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 ..
 DIN 1835 B	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	

Adjustable coolant supply: remove front-sided coolant screw for blind hole machining | Bodies and assembly parts are included in the scope of delivery

C3

WALTER SELECT

Stability of machine, workpiece and clamping arrangement → Very good = 😊 → Good = 😊 → Moderate = 😊

Assembly parts

	D _c [inch]	0,787	0,886–1,22
	Clamping screw for indexable insert Tightening torque	FS2147 (T6IP) 0,443 lbs	FS2111 (T7IP) 0,664 lbs

Accessories

	D _c [inch]	0,787	0,886–1,22
	Torque screwdriver, analogue	FS2002	FS2002
	Interchangeable blade	FS2085 (T6IP)	FS2011 (T7IP)
	Screwdriver	FS2086 (T6IP)	FS2088 (T7IP)

Indexable inserts

Designation	Size	r inch	Pitch (P) inch	Lead (TPI) in	l inch	Number of cutting edges	P		M		K		N		S		H	
							WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S
	P26300-0601-D61	06	0,004	0,055–0,114	18–9	0,265	3	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	P26300-0602-D61	06	0,008	0,118–0,126	8–8	0,259	3	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	P26300-0901-D61	09	0,004	0,055–0,114	18–9	0,373	3	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	P26300-0902-D61	09	0,008	0,118–0,169	8–6	0,368	3	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	P26300-0601-D67	06	0,004	0,055–0,114	18–9	0,265	3	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	P26300-0602-D67	06	0,008	0,118–0,126	8–8	0,259	3	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	P26300-0901-D67	09	0,004	0,055–0,114	18–9	0,373	3	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	P26300-0902-D67	09	0,008	0,118–0,169	8–6	0,368	3	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	P26310-09G11-D61	09	0,008	0,091–0,091	11–11	0,368	3	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒

HC = beschichtetes Hartmetall

WALTER SELECT

Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = ☹ → Moderate = ☹

☒ ☒ ☒ / * = New addition to the product range

Thread milling cutters with indexable inserts C 445

C3

Indexable insert thread milling cutter

T2712

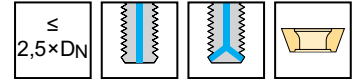


- Universal indexable insert thread milling cutter
- Radius correction values: Walter GPS/Technical information

M-MF
DIN 13

**UNC/UNF
UN**
ASME B1.1

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	T2712-13-W16-1-06	M 16	2	13			43	100	16	1	1	P26300-06 ..	
	T2712-17-W16-3-06	M 20	2,5	16,5			53	108	16	3	3		
	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	T2712-24-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-sided coolant screw for blind hole machining | Bodies and assembly parts are included in the scope of delivery

C3

WALTER SELECT

Stability of machine, workpiece and clamping arrangement → Very good = 😊 → Good = 😊 → Moderate = 😊

Assembly parts

D _c [mm]	13–19	24–29	35	40–52
Clamping screw for indexable insert Tightening torque	FS2147 (T6IP) 0,6 Nm	FS2111 (T7IP) 0,9 Nm	FS2061 (T7IP) 0,9 Nm	FS1457 (T9IP) 2 Nm

Accessories

D _c [mm]	13–19	24–35	40–52
Torque screwdriver, analogue	FS2001	FS2001	FS2003
Torque screwdriver, digital			FS2248
Interchangeable blade	FS2085 (T6IP)	FS2011 (T7IP)	FS2013 (T9IP)
Screwdriver	FS2086 (T6IP)	FS2088 (T7IP)	FS1484 (T9IP)

Indexable inserts

Designation	Size	r mm	Pitch (P) mm	Lead (TPI) in	l mm	Number of cutting edges	P		M		K		N		S		H	
							HC	WSM37G	HC	WSM37S	HC	WSM37G	HC	WSM37S	HC	WSM37G	HC	WSM37S
	P26300-0601-D61	06	0.1	1.40–2.9	18–9	6,73	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞
	P26300-0602-D61	06	0.2	3.00–3.2	8–8	6,58	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞
	P26300-0901-D61	09	0.1	1.40–2.9	18–9	9,48	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞
	P26300-0902-D61	09	0.2	3.00–4.3	8–6	9,34	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞
	P26300-1101-D61	11	0.1	1.40–2.9	18–9	10,85	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞
	P26300-1102-D61	11	0.2	3.00–4.5	8–6	10,71	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞
	P26300-1401-D61	14	0.1	1.40–2.9	18–9	13,87	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞
	P26300-1402-D61	14	0.2	3.00–5.2	8–5	13,72	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞
	P26300-1404-D61	14	0.4	5.50–6.4	5–4	13,43	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞
	P26300-0601-D67	06	0.1	1.40–2.9	18–9	6,73	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞
	P26300-0602-D67	06	0.2	3.00–3.2	8–8	6,58	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞
	P26300-0901-D67	09	0.1	1.40–2.9	18–9	9,48	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞
	P26300-0902-D67	09	0.2	3.00–4.3	8–6	9,34	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞
	P26300-1102-D67	11	0.2	3.00–4.5	8–6	10,71	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞
	P26300-1401-D67	14	0.1	1.40–2.9	18–9	13,87	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞
	P26300-1402-D67	14	0.2	3.00–5.2	8–5	13,72	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞
	P26300-1404-D67	14	0.4	5.50–6.4	5–4	13,43	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞
	P26310-09G11-D61	09	0.2	2.30–2.3	11–11	9,34	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞
	P26310-14G11-D61	14	0.2	2.30–2.3	11–11	13,72	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞

HC = beschichtetes Hartmetall

WALTER SELECT

Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = ☹ → Moderate = ☹

☞ ☞ ☞ / * = New addition to the product range

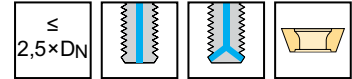
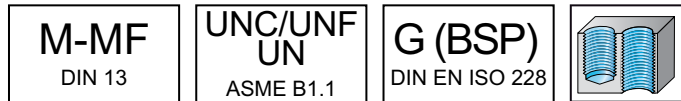
C3

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} mm	D _c mm	l ₃ mm	l ₁ mm	d ₁ mm	Z	Number of cutting edges	Type
	T2712-13-W16-1-06	M 16	2	13	43	100	16	1	1	P26300-06 ..
	T2712-17-W16-3-06	M 20	2,5	16,5	53	108	16	3	3	
	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	
	T2712-52-W40-4-14	M 64	6	52	167	249	40	4	4	

Adjustable coolant supply: remove front-sided coolant screw for blind hole machining | Bodies and assembly parts are included in the scope of delivery

C3

Assembly parts

D _c [mm]	13-19	24-29	35	40-52
Clamping screw for indexable insert Tightening torque	FS2147 (T6IP) 0,6 Nm	FS2111 (T7IP) 0,9 Nm	FS2061 (T7IP) 0,9 Nm	FS1457 (T9IP) 2 Nm

Accessories

D _c [mm]	13-19	24-35	40-52
Torque screwdriver, analogue	FS2001	FS2001	FS2003
Torque screwdriver, digital			FS2248
Interchangeable blade	FS2085 (T6IP)	FS2011 (T7IP)	FS2013 (T9IP)
Screwdriver	FS2086 (T6IP)	FS2088 (T7IP)	FS1484 (T9IP)

Indexable inserts

Designation	Size	r mm	Pitch (P) mm	Lead (TPI) in	l mm	Number of cutting edges	P		M		K		N		S		H		
							HC	WSM37G	HC	WSM37S	HC	WSM37G	HC	WSM37S	HC	WSM37G	HC	WSM37S	
	P26300-0601-D61	06	0.1	1.40-2.9	18-9	6.73	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	
	P26300-0602-D61	06	0.2	3.00-3.2	8-8	6.58	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	
	P26300-0901-D61	09	0.1	1.40-2.9	18-9	9.48	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	
	P26300-0902-D61	09	0.2	3.00-4.3	8-6	9.34	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	
	P26300-1101-D61	11	0.1	1.40-2.9	18-9	10.85	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	
	P26300-1102-D61	11	0.2	3.00-4.5	8-6	10.71	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞
	P26300-1401-D61	14	0.1	1.40-2.9	18-9	13.87	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞
	P26300-1402-D61	14	0.2	3.00-5.2	8-5	13.72	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞
	P26300-1404-D61	14	0.4	5.50-6.4	5-4	13.43	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞
	P26300-0601-D67	06	0.1	1.40-2.9	18-9	6.73	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	
	P26300-0602-D67	06	0.2	3.00-3.2	8-8	6.58	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	
	P26300-0901-D67	09	0.1	1.40-2.9	18-9	9.48	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	
	P26300-0902-D67	09	0.2	3.00-4.3	8-6	9.34	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	
	P26300-1102-D67	11	0.2	3.00-4.5	8-6	10.71	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	
	P26300-1401-D67	14	0.1	1.40-2.9	18-9	13.87	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞
	P26300-1402-D67	14	0.2	3.00-5.2	8-5	13.72	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞
	P26300-1404-D67	14	0.4	5.50-6.4	5-4	13.43	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞
		P26310-09G11-D61	09	0.2	2.30-2.3	11-11	9.34	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞
P26310-14G11-D61		14	0.2	2.30-2.3	11-11	13.72	3	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	☞	

HC = beschichtetes Hartmetall

WALTER SELECT

Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = ☹ → Moderate = ☹

☞ ☞ ☞ / * = New addition to the product range

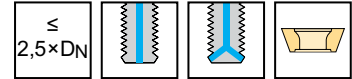
C3

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 PI 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
												P26300-09 ..
	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	P26300-09 ..

DIN 1835 B

Adjustable coolant supply: remove front-sided coolant screw for blind hole machining | Bodies and assembly parts are included in the scope of delivery

C3

Assembly parts

	D _c [mm]	26–31
	Clamping screw for indexable insert Tightening torque	FS2111 (T7IP) 0,9 Nm

Accessories

	D _c [mm]	26–31
	Torque screwdriver, analogue	FS2001
	Interchangeable blade	FS2011 (T7IP)
	Screwdriver	FS2088 (T7IP)

Indexable inserts

Designation	Size	r mm	Pitch (P) mm	Lead (TPI) in	l mm	Number of cutting edges	P		M		K		N		S		H	
							WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S
 P26300-0901-D61 P26300-0902-D61	09	0.1	1.40–2.9	18–9	9,48	3	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC
	09	0.2	3.00–4.3	8–6	9,34	3	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S
 P26300-0901-D67 P26300-0902-D67	09	0.1	1.40–2.9	18–9	9,48	3	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC	HC
	09	0.2	3.00–4.3	8–6	9,34	3	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S

HC = beschichtetes Hartmetall

WALTER SELECT

Stability of machine, workpiece and clamping arrangement → Very good = ☺ → Good = ☹ → Moderate = ☹☹

☺ ☹ ☹☹ / ★ = New addition to the product range

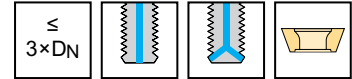
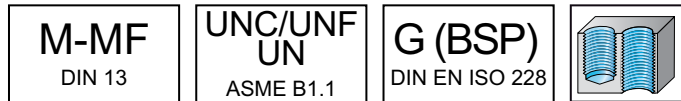
C3

Indexable insert thread milling cutter

T2713 mm



- Universal indexable insert thread milling cutter
- Radius correction values: Walter GPS/Technical information



	P	M	K	N	S	H	O
T2713	●	●	●	●	●	●	●

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	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	
 Walter Capto™ in acc. with ISO 26623	T2713-52-W40-4-14	M 64	6	52	199	281	40	4	4	
	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 ..

Adjustable coolant supply: remove front-sided coolant screw for blind hole machining | Bodies and assembly parts are included in the scope of delivery

C3

WALTER SELECT

Stability of machine, workpiece and clamping arrangement → Very good = 😊 → Good = 😊 → Moderate = 😊

Assembly parts

D _c [mm]	16,5–19	24–29	35	40–73	94
Clamping screw for indexable insert Tightening torque	FS2147 (T6IP) 0,6 Nm	FS2111 (T7IP) 0,9 Nm	FS2061 (T7IP) 0,9 Nm	FS1457 (T9IP) 2 Nm	FS1495 (T20IP) 5 Nm
Torque screwdriver, digital					FS2248

Accessories

D _c [mm]	16,5–19	24–35	40–73	94
Torque screwdriver, analogue	FS2001	FS2001	FS2003	FS2003
Torque screwdriver, digital			FS2248	
Interchangeable blade	FS2085 (T6IP)	FS2011 (T7IP)	FS2013 (T9IP)	FS2015 (T20IP)
Screwdriver	FS2086 (T6IP)	FS2088 (T7IP)	FS1484 (T9IP)	FS1486 (T20IP)

Indexable inserts

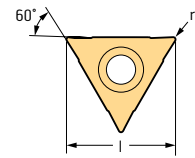
Designation	Size	r mm	Pitch (P) mm	Lead (TPI) in	l mm	Number of cutting edges	P		M		K		N		S		H	
							WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S
	P26300-0601-D61	06	0,1	1.40–2.9	18–9	6,73	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-0602-D61	06	0,2	3.00–3.2	8–8	6,58	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-0901-D61	09	0,1	1.40–2.9	18–9	9,48	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-0902-D61	09	0,2	3.00–4.3	8–6	9,34	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-1101-D61	11	0,1	1.40–2.9	18–9	10,85	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-1102-D61	11	0,2	3.00–4.5	8–6	10,71	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-1401-D61	14	0,1	1.40–2.9	18–9	13,87	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-1402-D61	14	0,2	3.00–5.2	8–5	13,72	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-1404-D61	14	0,4	5.50–6.4	5–4	13,43	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-2204-D61	22	0,4	6.00–10.0	4–3	21,41	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26310-09G11-D61	09	0,2	2.30–2.3	11–11	9,34	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26310-14G11-D61	14	0,2	2.30–2.3	11–11	13,72	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-1401-D67	14	0,1	1.40–2.9	18–9	13,87	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-1402-D67	14	0,2	3.00–5.2	8–5	13,72	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-1404-D67	14	0,4	5.50–6.4	5–4	13,43	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑

HC = beschichtetes Hartmetall

Thread milling cutter inserts – M, MF, UNC, UNF, UN

P26300

Tiger-tec® Gold



Indexable inserts

Designation	Size	r mm	Pitch (P) mm	Lead (TPI) in	l mm	Number of cutting edges	P	M	K	N	S	H
							HC	HC	HC	HC	HC	HC
							WSM37G	WSM37G	WSM37G	WSM37G	WSM37G	WSM37G
	P26300-0601-D67	06	0,1	1.40-2.9	18-9	6,73	3					
	P26300-0602-D67	06	0,2	3.00-3.2	8-8	6,58	3					
	P26300-0901-D67	09	0,1	1.40-2.9	18-9	9,48	3					
	P26300-0902-D67	09	0,2	3.00-4.3	8-6	9,34	3					
	P26300-1102-D67	11	0,2	3.00-4.5	8-6	10,71	3					
	P26300-1401-D67	14	0,1	1.40-2.9	18-9	13,87	3					
	P26300-1402-D67	14	0,2	3.00-5.2	8-5	13,72	3					
	P26300-1404-D67	14	0,4	5.50-6.4	5-4	13,43	3					
	P26300-0601-D61	06	0,1	1.40-2.9	18-9	6,73	3					
	P26300-0602-D61	06	0,2	3.00-3.2	8-8	6,58	3					
	P26300-0901-D61	09	0,1	1.40-2.9	18-9	9,48	3					
	P26300-0902-D61	09	0,2	3.00-4.3	8-6	9,34	3					
	P26300-1101-D61	11	0,1	1.40-2.9	18-9	10,85	3					
	P26300-1102-D61	11	0,2	3.00-4.5	8-6	10,71	3					
	P26300-1401-D61	14	0,1	1.40-2.9	18-9	13,87	3					
	P26300-1402-D61	14	0,2	3.00-5.2	8-5	13,72	3					
	P26300-1404-D61	14	0,4	5.50-6.4	5-4	13,43	3					
	P26300-2204-D61	22	0,4	6.00-10.0	4-3	21,41	3					

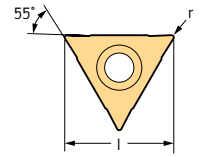
Ordering example for the grade WSM37G: P26300-0601-D67 WSM37G

HC = Coated carbide


Thread milling cutter inserts – G (BSP)

P26310

Tiger-tec® Gold

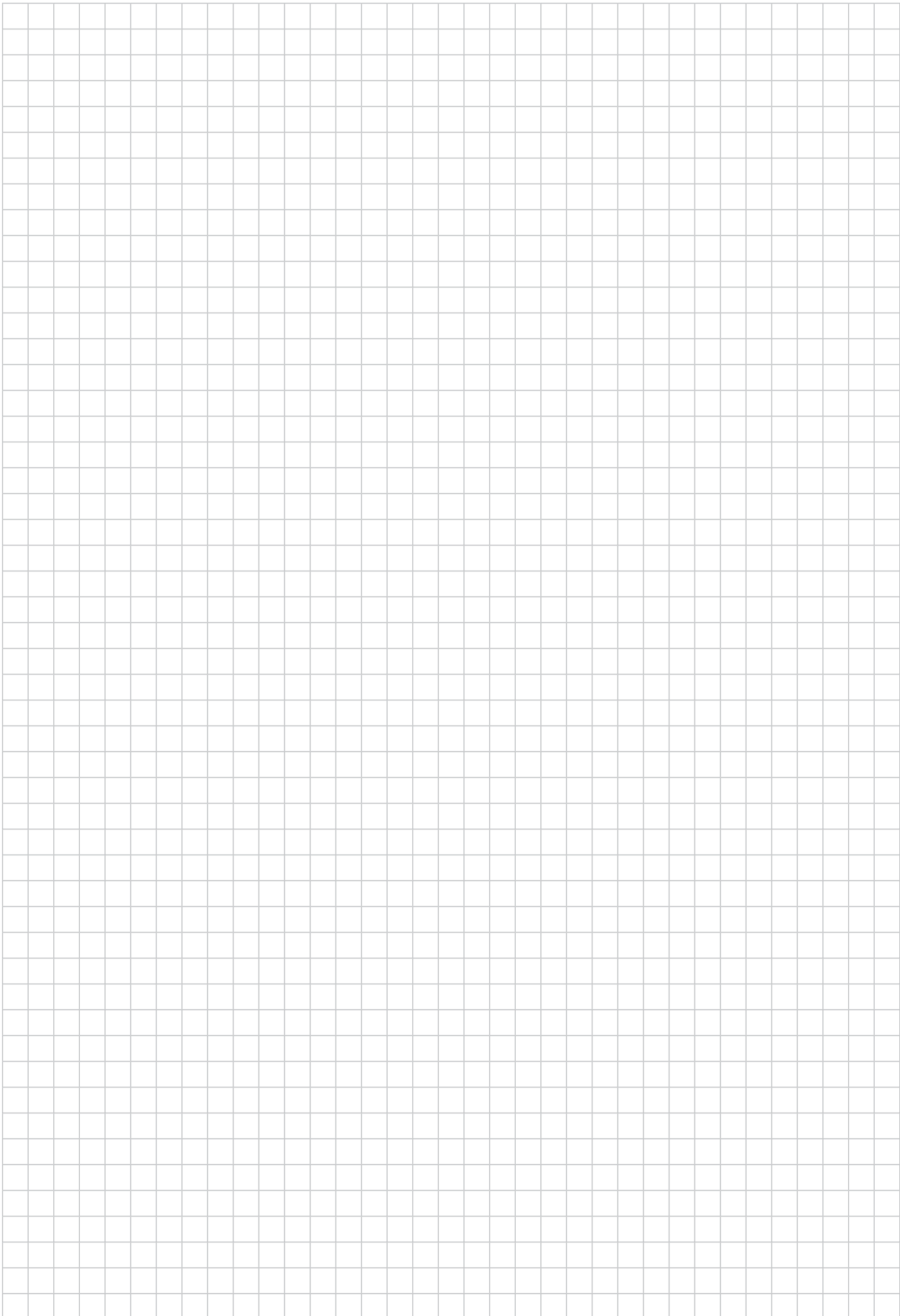


Indexable inserts

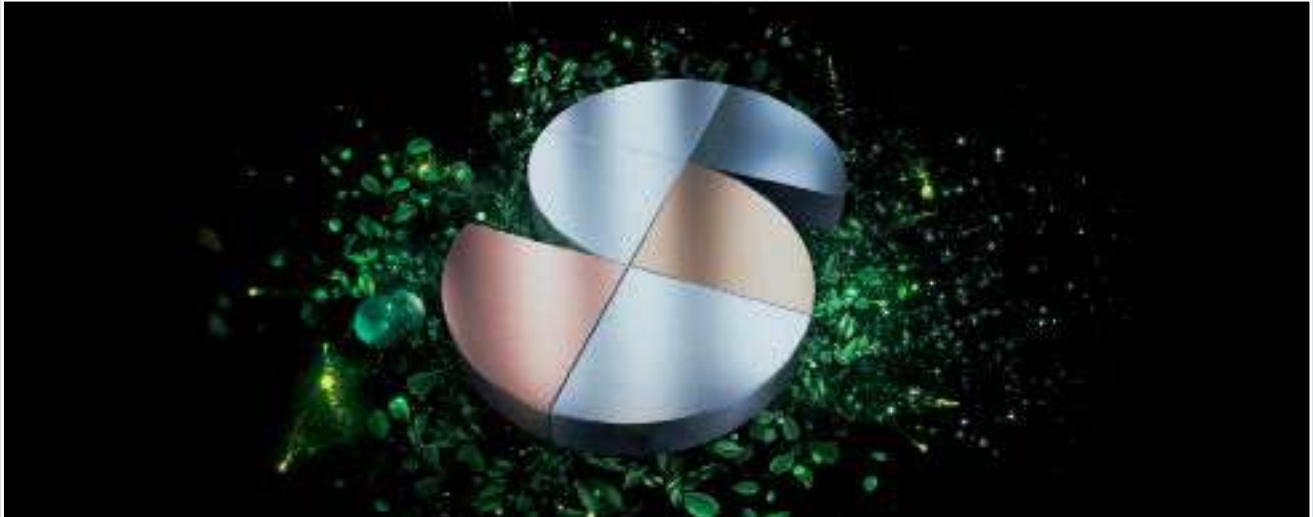
Designation	Size	r mm	Pitch (P) mm	Lead (TPI) in	l mm	Number of cutting edges	P	M	K	N	S	H
							HC	HC	HC	HC	HC	HC
							WSM37G	WSM37G	WSM37G	WSM37G	WSM37G	WSM37G
 P26310-09G11-D61 P26310-14G11-D61	09	0,2	2.30-2.3	11-11	9,34	3						
	14	0,2	2.30-2.3	11-11	13,72	3						

Ordering example for the grade WSM37G: P26310-09G11-D61 WSM37G

HC = Coated carbide



C3



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 (e.g. through CO₂ compensation of our energy use) 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)
- ISO 14001 (Environmental management)
- ISO 45001 (Occupational health and safety management)
- ISO 50001 (Energy management)
- Certified according to Ecovadis Gold Standard and NQC rating



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.



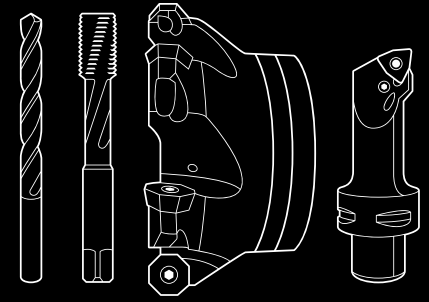
Quality management

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.

Walter AG

Derendinger Straße 53, 72072 Tübingen
Postfach 2049, 72010 Tübingen
Germany

walter-tools.com



Europe

Walter Austria GmbH

Wien, Österreich
+43 1 5127300-0, service.at@walter-tools.com

Walter Benelux N.V./S.A.

Zaventem, Belgique
(B) +32 (02) 7258500
(NL) +31 (0) 900 26585-22
service.benelux@walter-tools.com

Walter (Schweiz) AG

Solothurn, Schweiz
+41 (0) 32 617 40 72, service.ch@walter-tools.com

Walter CZ s.r.o

Kurim, Czech Republic
+420 (0) 541 423352, service.cz@walter-tools.com

Walter Deutschland GmbH

Frankfurt, Deutschland
+49 (0) 69 78902-100, service.de@walter-tools.com

Walter France

Soultz-sous-Forêts, France
+33 (0) 3 88 80 20 00, service.fr@walter-tools.com

Walter Hungária Kft.

Budapest, Magyarország
+36 1 464 7160, service.hu@walter-tools.com

Walter Tools Ibérica S.A.U.

El Prat de Llobregat, España
+34 934 796760, service.iberica@walter-tools.com

Walter Italia s.r.l.

Via Volta, s.n.c., 22071 Cadorago - CO, Italia
+39 031 926-111, service.it@walter-tools.com

Walter Norden AB

Halmstad, Sweden
+46 (0) 35 16 53 00, service.norden@walter-tools.com

Walter Polska Sp. z o.o.

Warszawa, Polska
+48 (0) 22 8520495, service.pl@walter-tools.com

Walter Tools SRL

Timisoara, România
+40 (0) 256 406218, service.ro@walter-tools.com

Walter Tools d.o.o.

Maribor, Slovenija
+386 (2) 629 01 30, service.si@walter-tools.com

Walter Slovakia, s.r.o.

Nitra, Slovakia
+421 (0) 37 3260 910, service.sk@walter-tools.com

Walter Kesici Takımlar Sanayi ve Ticaret Ltd. Şti.

Bursa, Türkiye
+90 (0) 224 909 5000 Pbx, service.tr@walter-tools.com

Walter GB Ltd.

Bromsgrove, England
+44 (1527) 839 450, service.uk@walter-tools.com

Asia

Walter Wuxi Co. Ltd.

Wuxi, Jiangsu, P.R. China
+86 (510) 853 72199, service.cn@walter-tools.com

Walter Wuxi Co. Ltd.

中国江苏省无锡市新区新畅南路 3 号
电话 : +86-510-8537 2199 邮编 : 214028
客服热线 : 400 1510 510
邮箱 : service.cn@walter-tools.com

Walter Tools India Pvt. Ltd.

Pune, India
+91 (20) 6773 7300, service.in@walter-tools.com

Walter Japan K.K.

Nagoya, Japan
+81 (52) 533 6135, service.jp@walter-tools.com

ワルタージャパン株式会社

名古屋市千代田区名駅二丁目 45 番 7 号
+81 (0) 52 533 6135, service.jp@walter-tools.com

Walter Korea Ltd.

Anyang-si Gyeonggi-do, Korea
+82 (31) 337 6100, service.wkr@walter-tools.com

한국발터(주)

경기도 안양시 동안구 학의로 282
금강팬데리움 106호 14056
+82 (0) 31 337 6100, service.wkr@walter-tools.com

Walter Malaysia Sdn. Bhd.

Selangor D.E., Malaysia
+60(3)-5624 4265, service.my@walter-tools.com

Walter AG Singapore Pte. Ltd.

+65 6773 6180, service.sg@walter-tools.com

Walter (Thailand) Co., Ltd.

Bangkok, 10120, Thailand
+66 2 687 0388, service.th@walter-tools.com

America

Walter do Brasil Ltda.

Sorocaba – SP, Brasil
+55 15 32245700, service.br@walter-tools.com

Walter Canada

Mississauga, Canada
service.ca@walter-tools.com

Walter Tools S.A. de C.V.

El Marqués, Querétaro, México
+52 (442) 478-3500, service.mx@walter-tools.com

Walter USA, LLC

Greer, SC, USA
+1 800-945-5554, service.us@walter-tools.com