

_ XTRA-TEC® XT – XTENDED TECHNOLOGY

**Performance and
reliability extend
your perspective.**

Product innovations

Milling

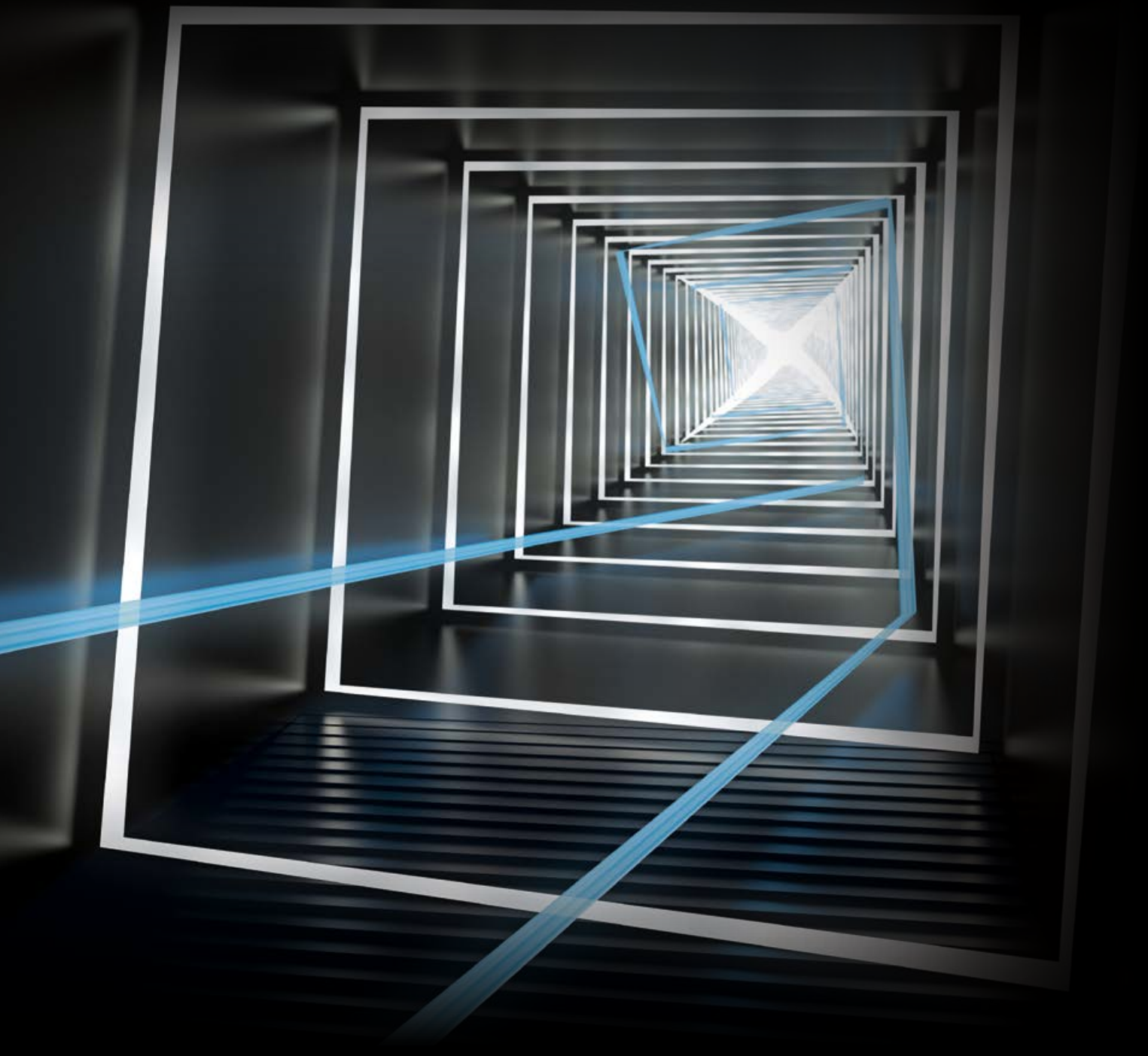
New!
WITH ALL
PROGRAMME
EXTENSIONS



Xtra-tec® XT

**PERFORMANCE AND RELIABILITY
IN EQUAL MEASURE –
A UNIQUE EXPERIENCE.**





Xtra-tec[®] XT

Better performance, greater process reliability: The latest generation in the successful range of Walter milling tools not only meets both these requirements but takes them to a whole new level.

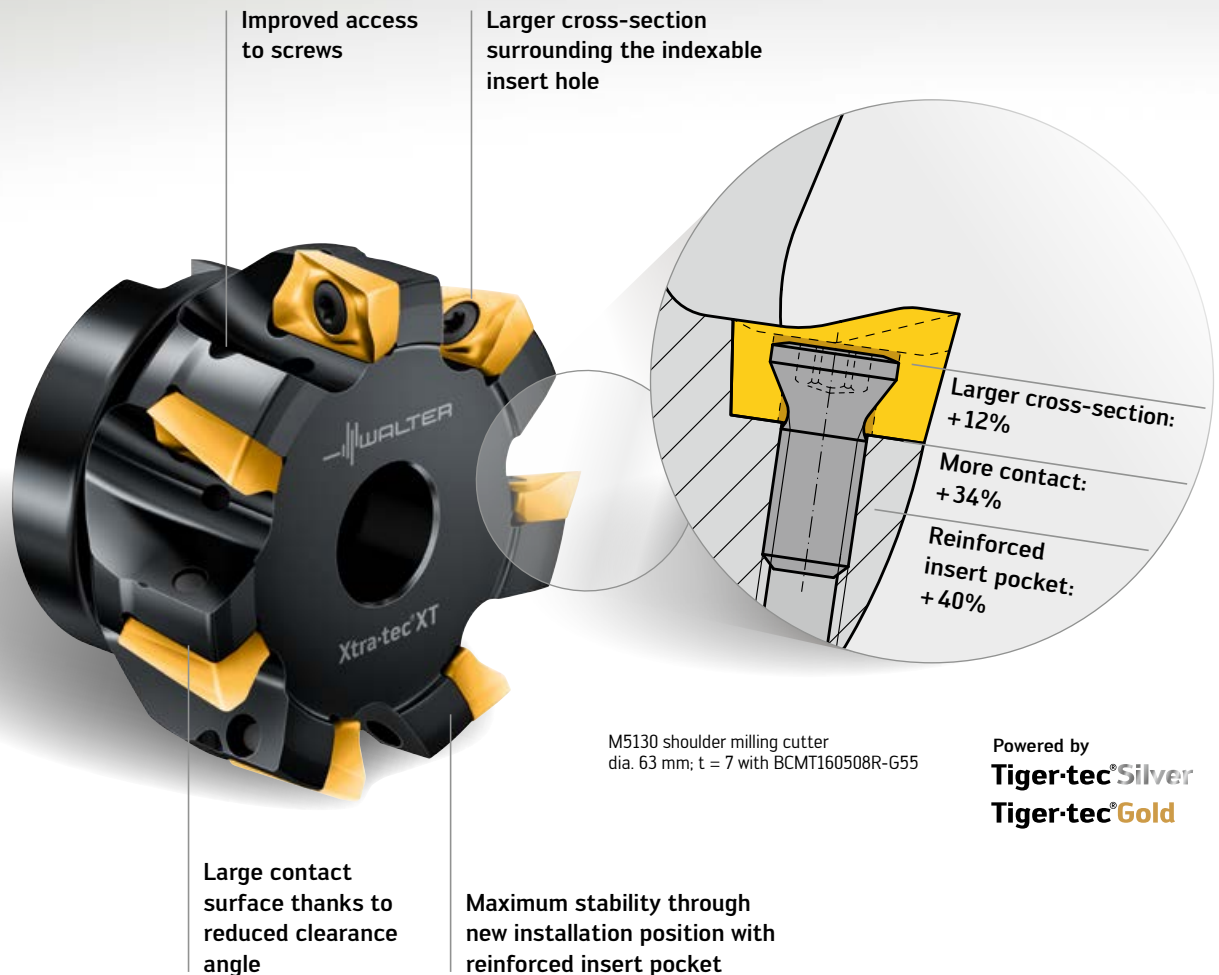
These two defining characteristics, evident in equal measure, are the product of an innovative and pioneering development process that is opening up a completely new perspective on productivity. The name alone means business: XT stands for Xtended Technology.

At Walter, we have never been afraid of setting ourselves ambitious goals. This two-fold challenge – performance and process reliability – is the key to a new perspective with Xtra-tec[®] XT.

For identifying two objectives and eventually reaching them together is no mean achievement.

A new perspective on productivity: Xtra-tec[®] XT.

THIS IS WHAT "XTENDED TECHNOLOGY" LOOKS LIKE.



M5130 shoulder milling cutter

New installation position – new possibilities.

The installation position of the indexable inserts is skewed by -8° ; the clearance angle on the insert has been reduced. This keeps the effective clearance angle the same. Stability and process reliability have been improved, as have handling and productivity. Because the new installation position allowed the insert pocket to be reinforced by +40%, the cross-section around the insert hole by +12% and the contact surface of the insert to be increased by +34%. To this end, more teeth have been housed in the milling body. For dia. 63 mm, for instance, seven instead of the existing six teeth – which in turn increases the machining volume.

Xtended performance and process reliability:

- Large cross-sections for maximum tool stability
- Larger contact surface for a secure seat and reduced surface pressure
- Improved accessibility of clamping screws for easier handling and shorter indexing time
- High number of teeth increases tool life and productivity
- Exact 90° angle minimises additional finishing operations
- Soft cut thanks to new insert installation position and easy-cutting geometries

Universal application
due to different cutting edge
geometries and corner radii

For machining pockets and
circular interpolation milling

Xtra-tec® XT M5130
shoulder milling cutter

No transitions when resetting
thanks to exact 90° angle

Four insert sizes for different depths of cut

Watch the video:



Less effort – more cost-efficiency.

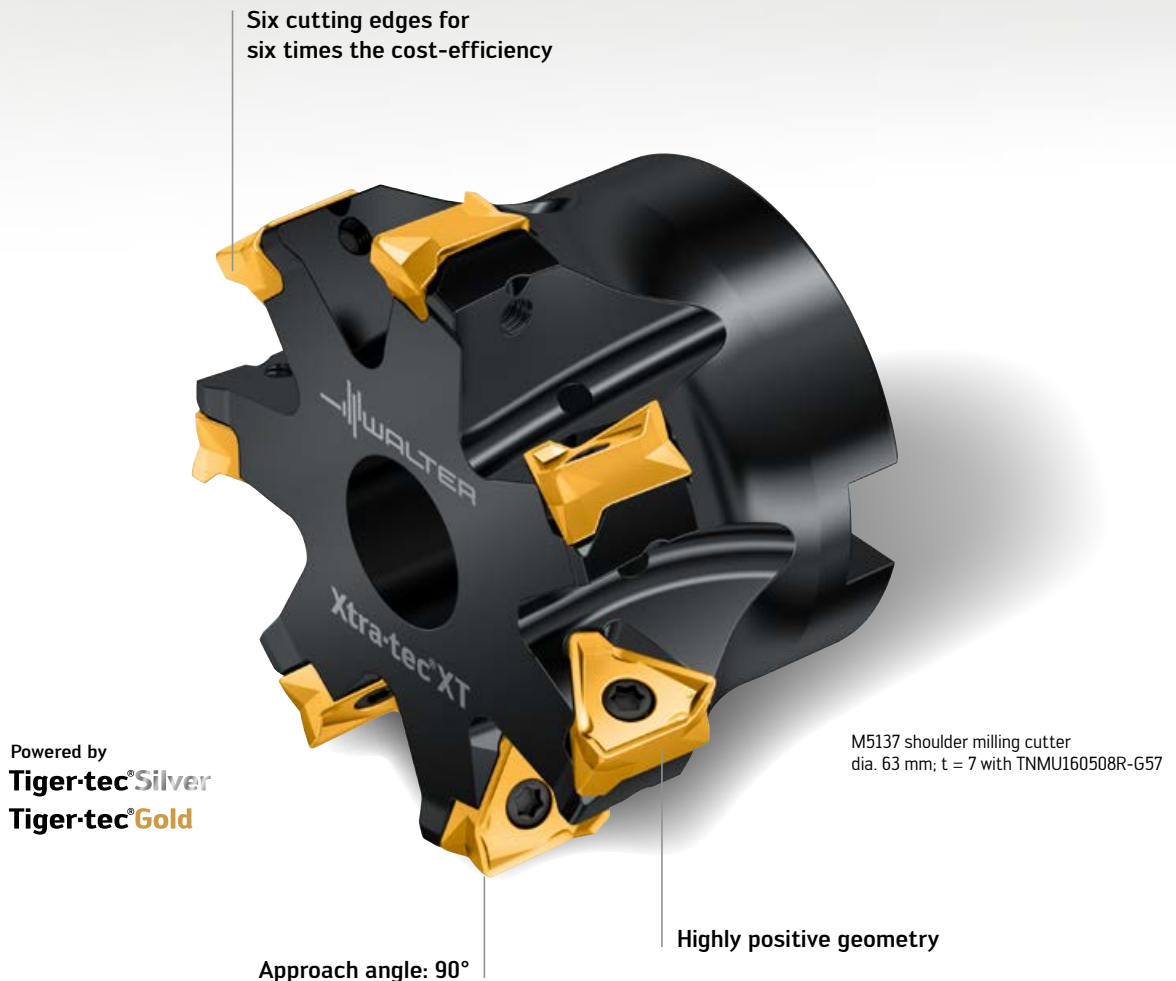
Wear-resistant Tiger-tec® grades contribute to the high economic efficiency but also reduced tool inventory costs due to universal applicability, e.g. face and shoulder milling, ramping, pocket milling and circular interpolation milling, or for machining deep shoulders with its reduced body diameter providing clearance. Flexible application thanks to three available tooth pitches, four different indexable insert sizes, various corner radii (0.2–6 mm) and geometries (with small indexable inserts and high number of teeth, e.g. for workpieces with a small machining allowance).

Indexable inserts – versatile and highly stable

Steel, stainless steels, cast iron, non-ferrous metals or materials with difficult cutting properties. The rhombic, positive indexable inserts with two cutting edges and a stable cross-section are available with a fully sintered circumference or with a fully ground circumference – in four insert sizes with various corner radii:

- AC ... 0602 ...: $r = 0.2\text{--}1.6\text{ mm}$, $a_{p\text{ max}} = 5\text{ mm}$
- BC ... 0903 ...: $r = 0.2\text{--}2.0\text{ mm}$, $a_{p\text{ max}} = 9\text{ mm}$
- BC ... 1204 ...: $r = 0.4\text{--}4.0\text{ mm}$, $a_{p\text{ max}} = 12\text{ mm}$
- BC ... 1605 ...: $r = 0.8\text{--}6.0\text{ mm}$, $a_{p\text{ max}} = 15\text{ mm}$

SIX TIMES AS COST-EFFICIENT – 90° APPROACH ANGLE.



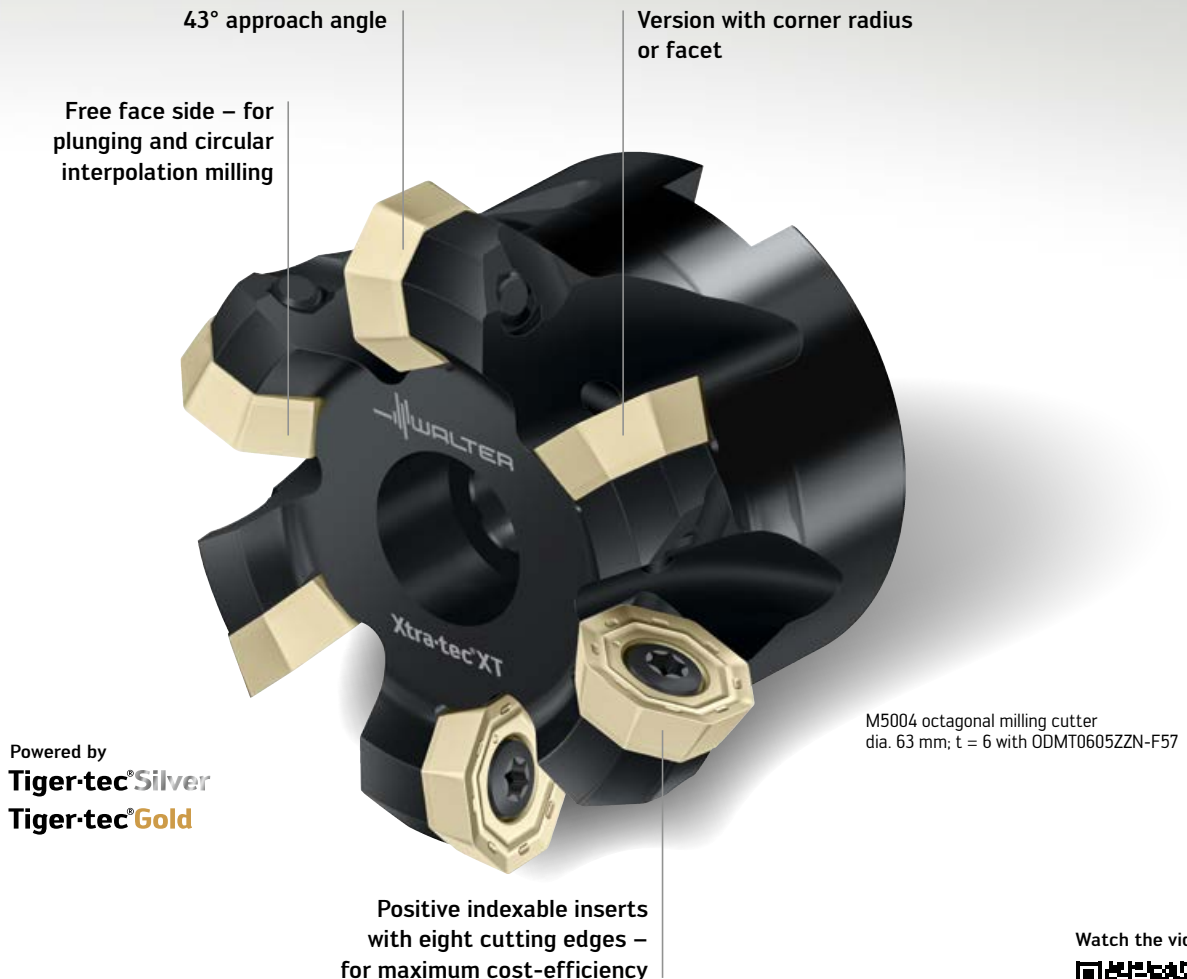
M5137 shoulder milling cutter

Anyone who wants to mill economically must bare their teeth. The M5137 shoulder milling cutter is equipped with triangular, double-sided indexable inserts. Six cutting edges per insert reduce process costs and increase cost-efficiency and productivity when face and shoulder milling, ramping, pocket milling and circular interpolation milling. An effect that is further multiplied by the use of Tiger-tec[®] cutting grades.

Indexable inserts for every possible application.

The double-sided indexable inserts featuring a fully sintered circumference with facet and easy-cutting geometry ensure high metal removal rates. For steel, stainless steels, cast iron or materials with difficult cutting properties – with two available tooth pitches, a maximum depth of cut of 5 or 8 mm and a simple tool selection, you are well-positioned for every application with the M5137.

EIGHT TIMES AS FLEXIBLE – SIMPLY GREAT.



M5004 octagonal milling cutter

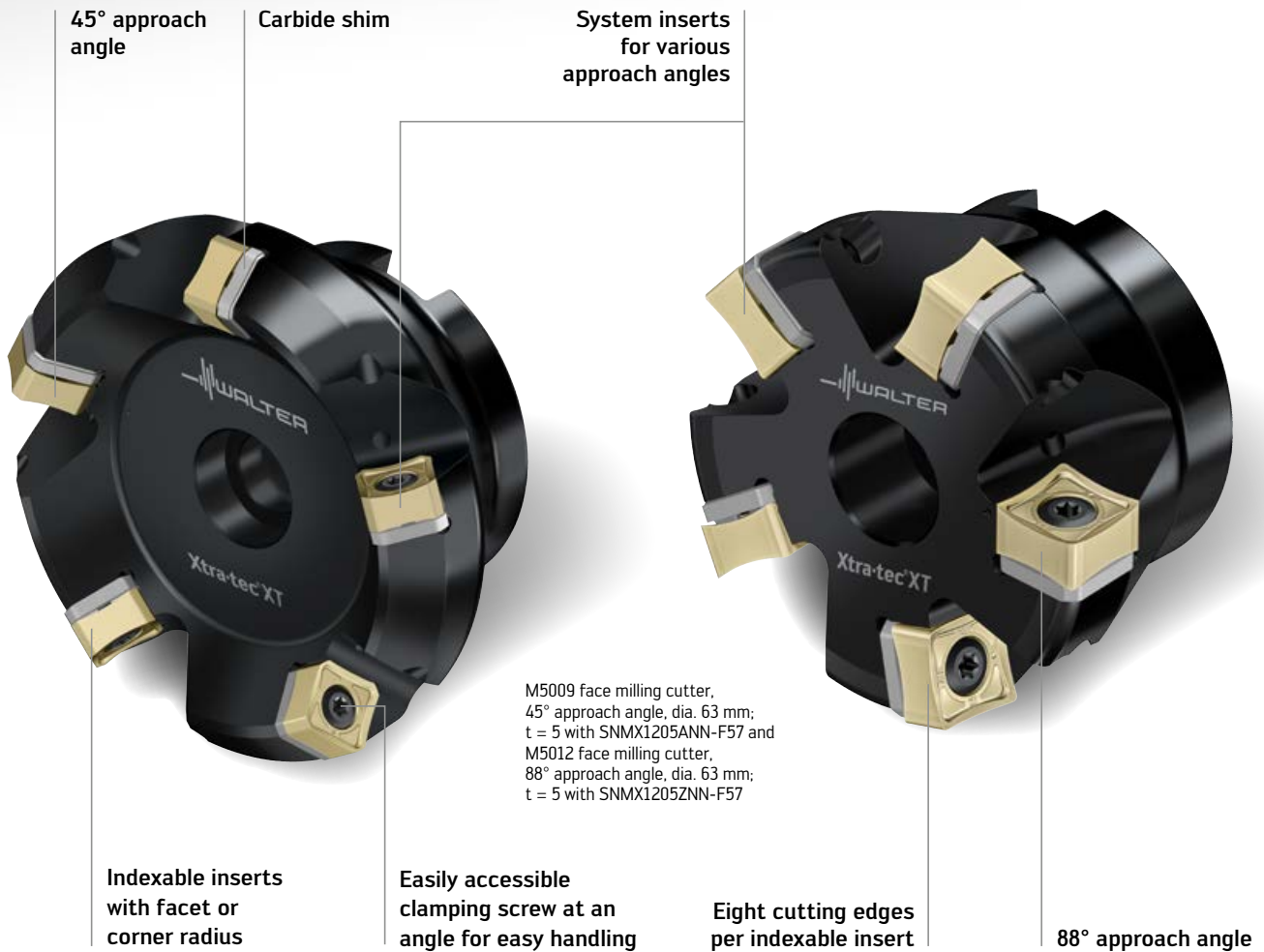
Higher cutting data, longer tool lives.

The M5004 octagonal milling cutter with a 43° approach angle for cutting depths of 3 or 4 mm with three available tooth pitches for different applications guarantees stability and process reliability. In addition to low cutting tool material costs due to eight cutting edges, another contributing factor to cost-efficiency is the high number of teeth and Tiger-tec® cutting grades – no matter whether face milling (roughing and finishing), ramping, pocket milling, circular interpolation milling or chamfering and back chamfering.

Reduced tool costs thanks to universal applicability.

The different ScrewFit adaptors, cylindrical-modular interface, parallel shank and bore adaption, as well as an enormous range of indexable inserts, make the M5004 suitable for universal use. The inserts are available with fully ground circumference or fully sintered circumference, in two sizes (each with corner radius or facet) and in a huge range of geometries. Optimally adaptable to all machining: From steel to stainless steels, cast iron and non-ferrous metals, right up to material with difficult cutting properties.

SIMPLY ECONOMIC – AND STABLE WHEN ROUGHING.



M5009 and M5012 face milling cutters

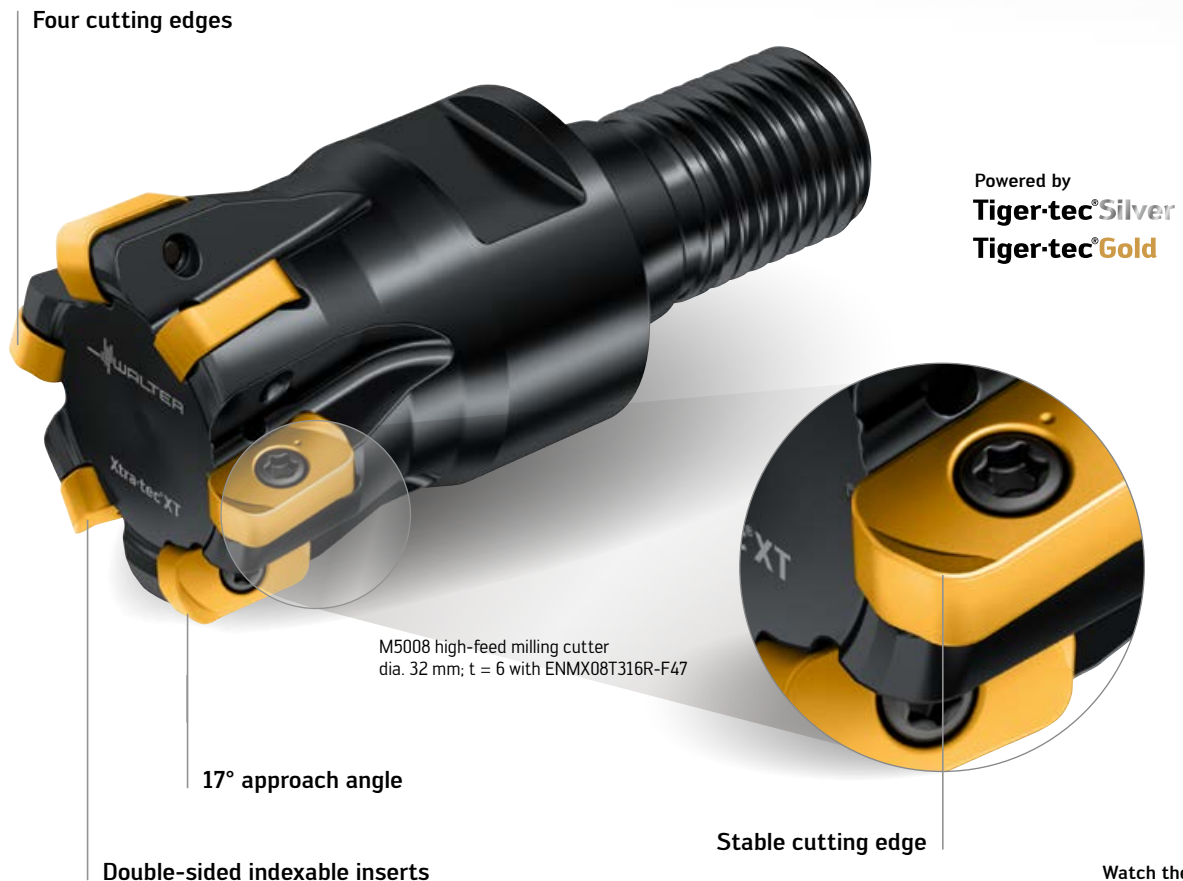
Strong similarities: M5009 and M5012.

Both face milling cutters with ScrewFit or bore adaption are distinguished by their process reliability, wide applicability and cost-efficiency. Both can be used with double-sided system inserts in two sizes. With smaller indexable inserts, they contain higher numbers of teeth. This enables high feeds, long tool lives and high productivity. Carbide shims protect the body should an insert break, and increase the process reliability. Easily accessible clamping screws contribute to easy handling.

Individual strengths: M5009 versus M5012.

The M5009 face milling cutter (dia. 25–160 mm) for depths of cut of 5 or 6.5 mm with an approach angle of 45° and three available tooth pitches is suitable for different applications. The M5012 face milling cutter (dia. 32–160 mm) for depths of cut of 8 or 10 mm has an approach angle of 88°. It is ideal when space is limited, e.g. by clamping devices. Both milling cutters can also be used on less powerful machines due to their positive, soft cutting action: For steel, cast iron and materials with difficult cutting properties as well as non-ferrous metals; for roughing, rough-finishing or (only for M5012) for face milling with an increased depth of cut.

MANY TEETH, QUITE A BITE – HIGH MACHINING VOLUME.



Watch the video:



M5008 high-feed milling cutter

So that high quality comes from high feed.

Depth of cut 1 mm, approach angle 17°, two tooth pitches available for different applications, extremely close pitch for maximum productivity, and more. The M5008 universal high-feed milling cutter combines low depths of cut with high feeds per tooth, allowing it to achieve very high machining volumes. The reduced vibration tendency of long tools and its high process reliability thanks to stable indexable inserts make it ideal for machining deep cavities.

Withstanding every challenge.

Double-sided, rhombic indexable inserts with four cutting edges allow small tool diameters and high numbers of teeth. Stable cutting edges combined with easy-cutting geometries and Tiger-tec[®] cutting grades ensure high cutting data and long tool lives. Thanks to ScrewFit, cylindrical-modular interface, parallel shank or bore adaption, the M5008 is suitable for almost all applications and materials, e.g. in the energy sector or in tool construction and mould making – from face milling through plunging and ramping right up to circular interpolation milling.

MAXIMUM SECURITY AGAINST INADVERTENT ROTATION.



Watch the video:



M5468 round insert milling cutter

A safe bet against insert rotation.

The cutting edge indexing of the positive round inserts for the M5468 with up to eight facets offers real anti-rotation protection – and consequently process reliability and cost-efficiency. From an insert size of 10 mm, the indexable inserts feature eight cutting edges and thus eight facets. The marking on the rake face ensures that every cutting edge can be used reliably. The inserts themselves are available in seven sizes and five geometries, and available with fully sintered circumference or fully ground circumference.

Ideal for copy milling with a small machining allowance.

Two tooth pitches for different applications, a range of interfaces (ScrewFit, cylindrical modular, Weldon shank, bore adaption) and cutting tool materials for every material make the milling cutter suitable for universal use – for copy milling, face milling, ramping, pocket milling and circular interpolation milling.

With the M5468, you benefit from:

- Max. productivity thanks to high cutting data and long tool lives
- High flexibility thanks to varied insert sizes and geometries
- Reduced tool costs thanks to universal application
- Cost-efficiency thanks to Tiger-tec® grades and high number of teeth.

FINISHING AT THE MAXIMUM PERFORMANCE LEVEL.



Watch the video:



M5460 profile milling cutter

Highly efficient for deep cavities.

The M5460 Xtra-tec® XT milling cutter is the ideal tool for highly precise finishing of freeform surfaces and deep cavities in steel, stainless steels, cast iron, materials with difficult cutting properties and hardened steels up to 63 HRC. Cutting diameter of 8 to 32 mm and an extensive range of cutting tool materials as well as shank designs for a huge variety of applications make it suitable for universal use – and consequently highly attractive for many sectors, from tool construction and mould making to the energy industry and even the aerospace industry.

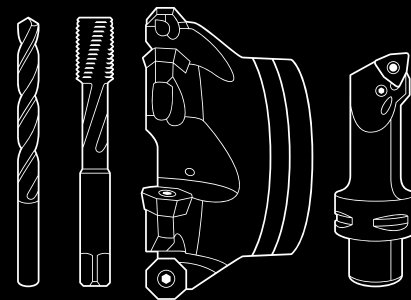
Specialists in hard machining.

The exchangeable insert made of the WHH15X high-performance cutting grade is positive on both edges and designed with a precision-ground cutting edge for maximum accuracy in two geometries: The P3201 (e.g. for semi-finishing and hard milling) and the P3204 (e.g. for finish machining). Their extremely wear-resistant carbide substrate allows long tool lives and cutting edge stability. The supply of compressed air or minimum quantity lubrication optimises chip removal and consequently ensures process reliability and surface quality.

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