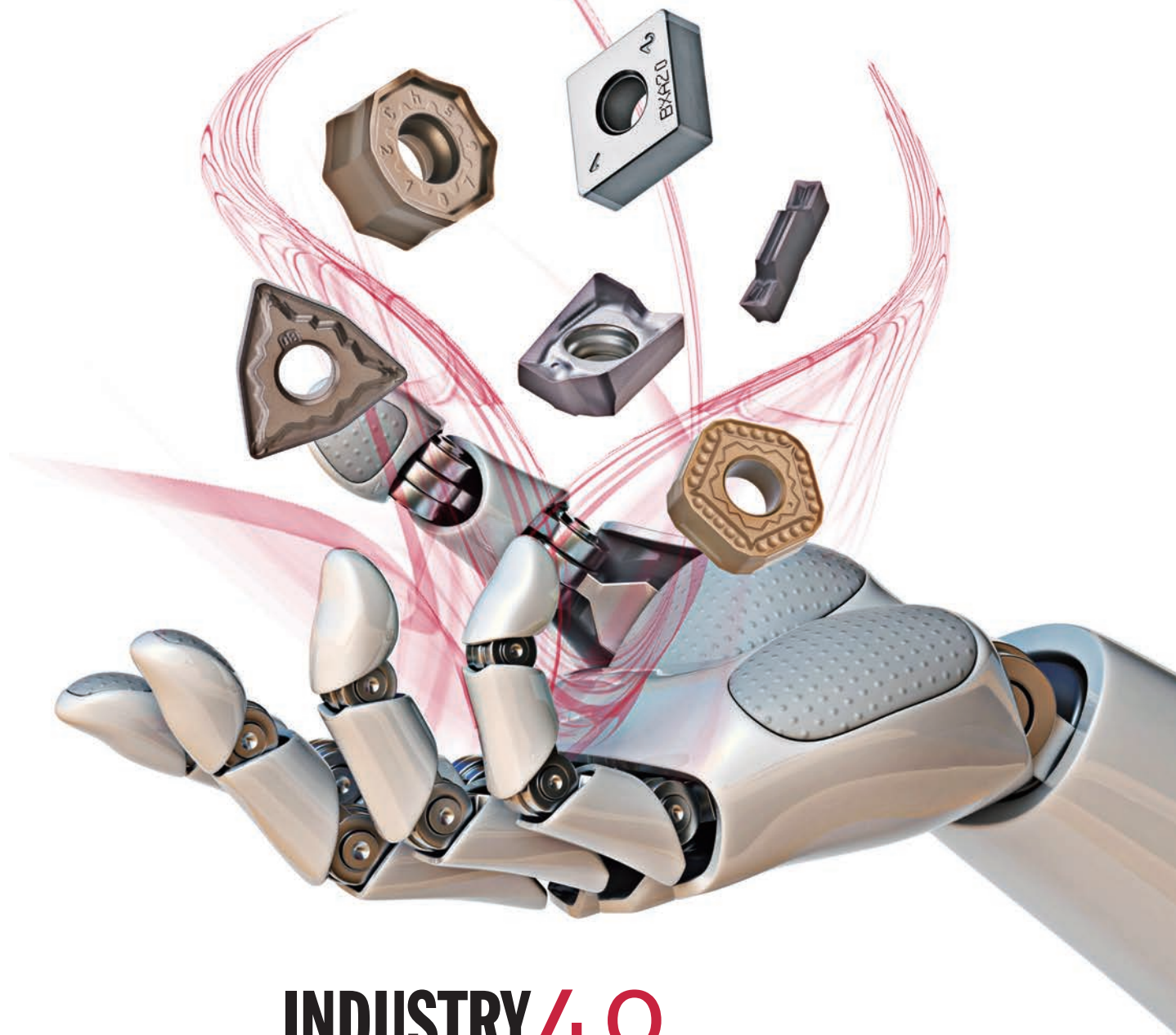


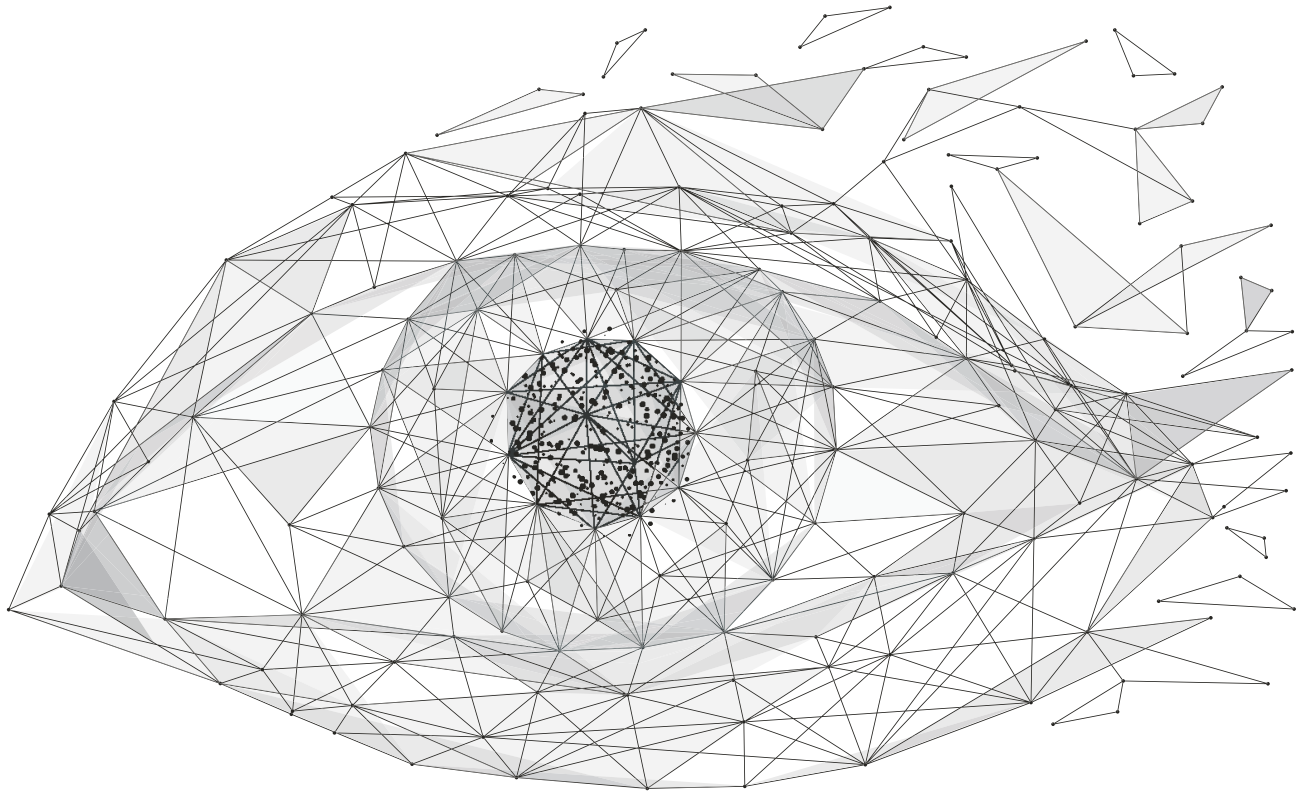


Focus

P R O D U C T S
h i g h l i g h t s



INDUSTRY 4.0
FEED the SPEED!



E-Catalog

Find Tools and download CAD drawings and 3D models
www.tungaloy.com/ecatalog



ThreadMilling Advisor

Tungaloy's new CNC program generator facilitates thread milling programming
www.tungaloy.com/threadmilling



Tungaloy Atlas

New Smartphone Application to explore the wide range of Tungaloy solutions
www.tungaloy.com/atlas



Insert Selection Guide

Find Tungaloy's first recommendations for Turning operations
www.tungaloy.com/insertguide



Matrix

Tool management system
www.tungaloy.com/matrix

Cost-effective shoulder milling cutter **for high productivity**

Features:

6-cornered design for an economic advantage

Concave cutting edge & optimized rake angle form barrel-shaped chips, delivering smooth chip evacuation

Max. ap: 0.433"

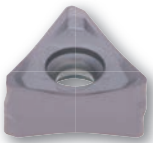
Cutter bodies:

TPTN12 (Shell type): 2.000" - 5.000"

EPTN12 (Shank type): 1.250" - 1.500"

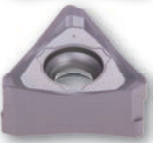
Available Grades:

AH120, AH3135, T1215, T3225



TNMU-MJ

Economical molded M-class insert with wiper edge



TNGU-MJ

Periphery ground G-Class insert with wiper edge



TNMU-R-MJ

Insert with large corner radius for high toughness.



TNMU-NMJ

Grooves on the cutting edge produce small chips, reducing cutting force and chip volume.



Face milling cutter with 3 types of double-sided inserts

Features:

DoTriple-Mill features an improved dovetail clamping structure and offers a triple advantage of using square, octagonal, and round inserts in the same pocket.

Cutter bodies:

TASN13 (Shell type): 2.000" - 6.000"

Available Grades:

AH120, AH3135, T1215, T3225

SNMU / SNGU

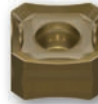
8-cornered insert, Max. ap - 0.236"



SNMU-MJ



SNGU-MJ



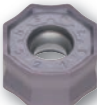
SNGU-MH



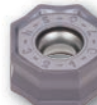
SNGU-W

ONMU / ONGU

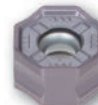
16-cornered economical insert, Max. ap - 0.133"



ONMU-MJ



ONGU-MJ



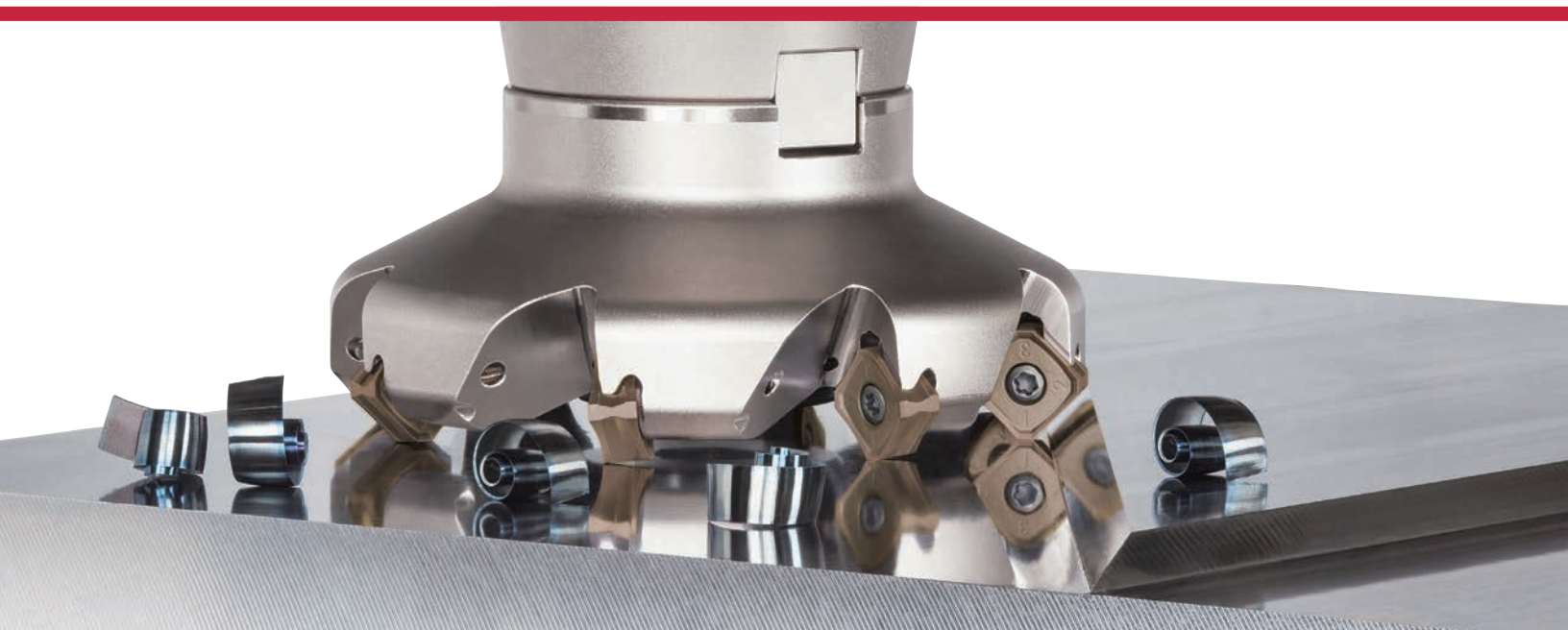
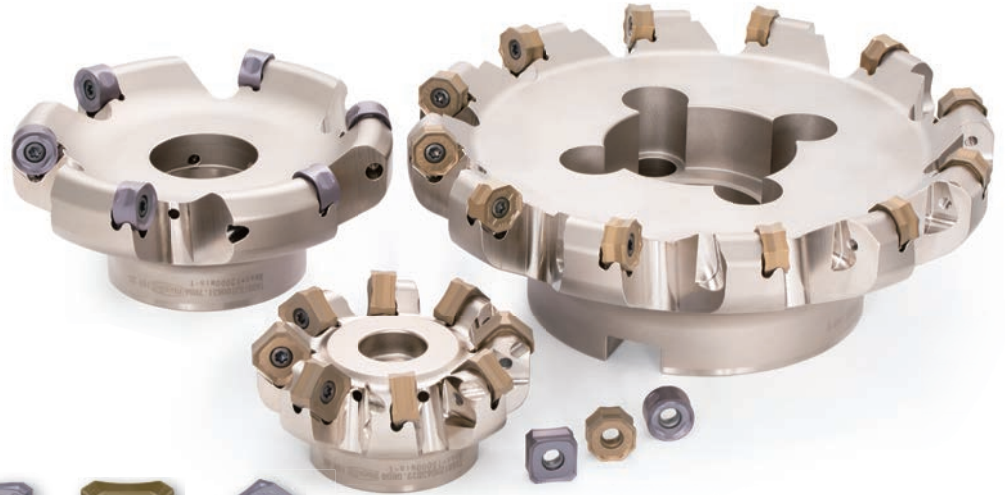
ONGU-W

RNMU

8-cornered radius insert for high feed and general machining, Max. ap - 0.236"



RNMU-MJ



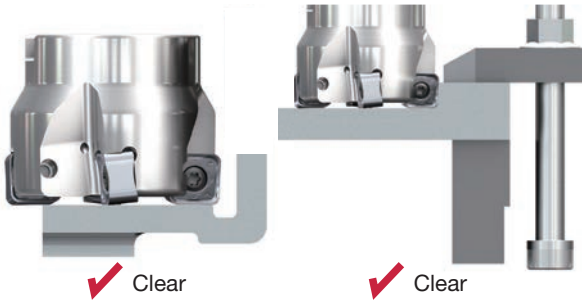
Face Milling Cutter with an 8-edged Insert for **Ultimate Clearance**

Features:

Improves ease of machining around fixtures, clamping systems, and side walls.

Face milling cutter with maximum clearance and economy.

No interference with side walls, fixtures, and clamping systems.



Cutter bodies:

THSN12 (Shell type): 2.000" - 4.000"

Available in both course and standard pitch

Available Grades:

AH120, AH3135, T1215, T3225



SNMU1206... MM

With 8 cutting edges, Max DOC: 0.374"

Available in R0.031" (with wiper), R0.047", and R0.079"

Suitable for machining close to side walls in various workpieces



Square shoulder milling endmills with small diameter **and exceptional stability and productivity**

Features:

V-shaped insert bottom increases contact area and improves stability.

Sharp cutting edge with positive rake face ensures **smooth cutting**.

Large screw **improves clamping rigidity**.

Max. ap: 0.236"

Cutter bodies:

EPAV (Shank type): 0.313" - 1.000"

HPAV-M (Modular type Metric thread):
10 mm (0.394") - 16 mm (0.630")

HPAV06-S (Modular type TungMeister thread):
10 mm (0.394") - 16 mm (0.630")

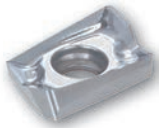
Available Grades:

AH120, AH130, AH3135, KS05F



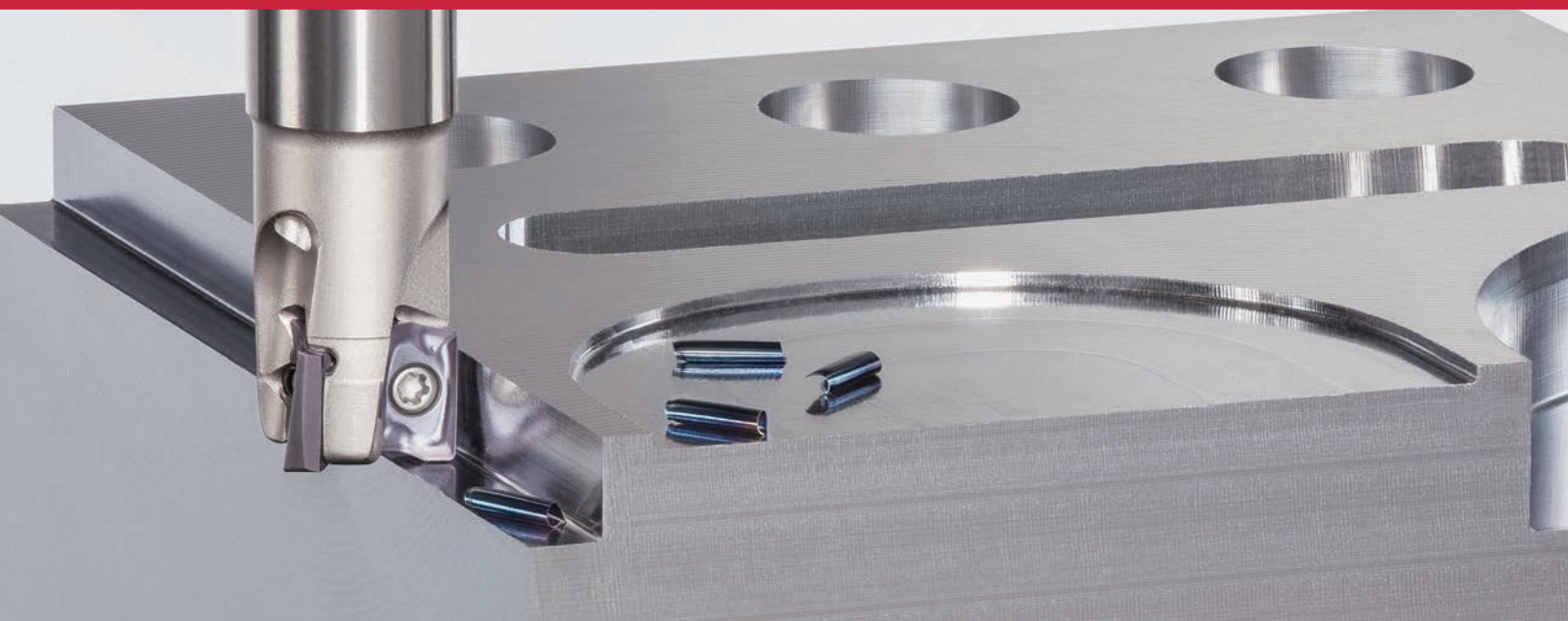
AVGT-MJ

Suitable for steel, stainless steel, cast iron,
and superalloys.
With corner radius 0 - 0.032"



AVGT-AJ

Suitable for non-ferrous metal due to its
polished rake face.
With corner radius 0 - 0.032"



Small-diameter high feed milling cutter with impressive machining efficiency and reliability

Features:

Strong insert corner for high feed operations

Thick insert corner is designed to withstand fracturing force

Robust and easy-to-handle insert screws

M2 screws reduce screw neck shears under high cutting forces. A larger screw enhances insert's fixation and easy handling.

Cutter bodies:

EXLS (Shank type): 0.375" - 0.625"

HXLS (Modular type, TungFlex):

8 mm (0.315") - 16 mm (0.630")

Available Grades:

AH3225, AH8015



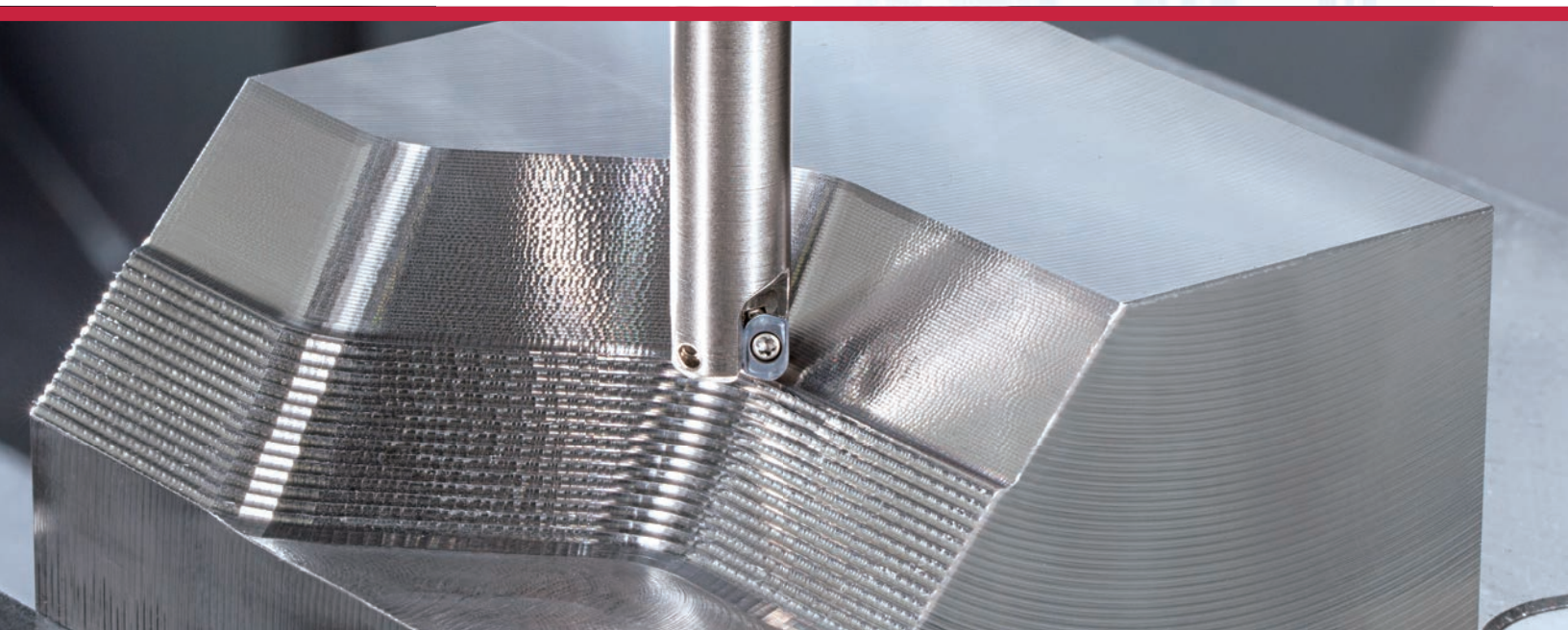
High feed insert (LSMT-HM)

Max. ap: 0.02"



R2 insert (LSMT-MM)

Max. ap: 0.079"



Economical double-sided insert with sharp cutting edges

Features:

Double-sided insert with positive cutting edges.

Same insert applicable for both **Bore Line** and **External Line**.

Bore Line: Minimum diameter of $\varnothing 0.5"$

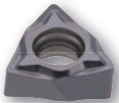
External Line: Suitable for small parts machining with lower cutting force similar to conventional positive inserts. Shank sizes: 0.375" - 1.00". Also available in high pressure coolant thru design - CHP.

Ground insert for highly accurate machining.

Max. ap: 0.078"

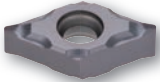
Available Grades:

SH725, AH725, NS9530, GT9530, KS05F



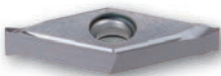
WXGU

80° corner angle with 6 cutting edges



DXGU

55° corner angle with 4 cutting edges



VXGU

35° corner angle with 4 cutting edges

All inserts available in multiple geometries.
Corner radius: 0.004" - 0.016"



TETRAMCUT / TETRAFORCE

Groove widths: 0.013" - 0.118"

Groove widths: 0.020" - 0.125"

Multi-purpose grooving line.

Economical insert with 4 cutting edges

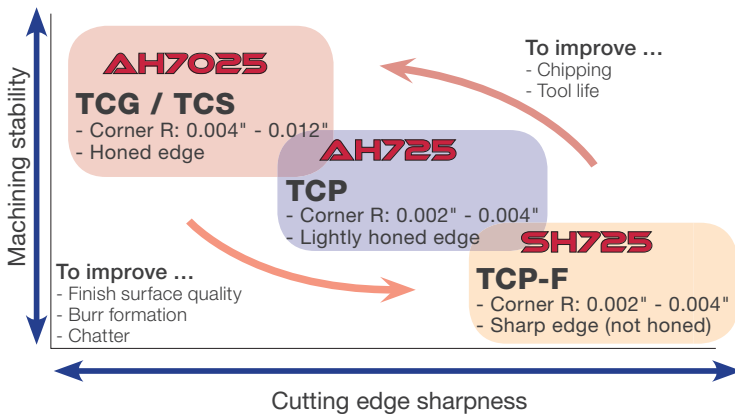
Features:

Unique 3-point clamping system

The insert pocket protects all unused cutting edges

(TCT Threading inserts also available)

TETRAMCUT



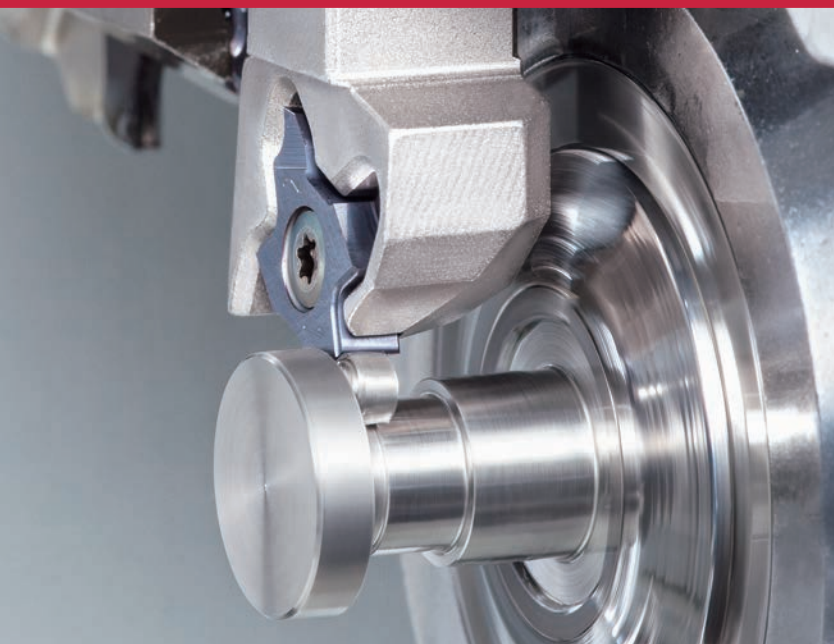
TETRAFORCE

TCS type

for general machining

TCM type

for high feed machining or parting-off



Versatile tools for Grooving and Side-turning operations

Features:

CHP, high-pressure internal coolant supply ensures smooth chip evacuation, while improving machining efficiency in higher parameter applications

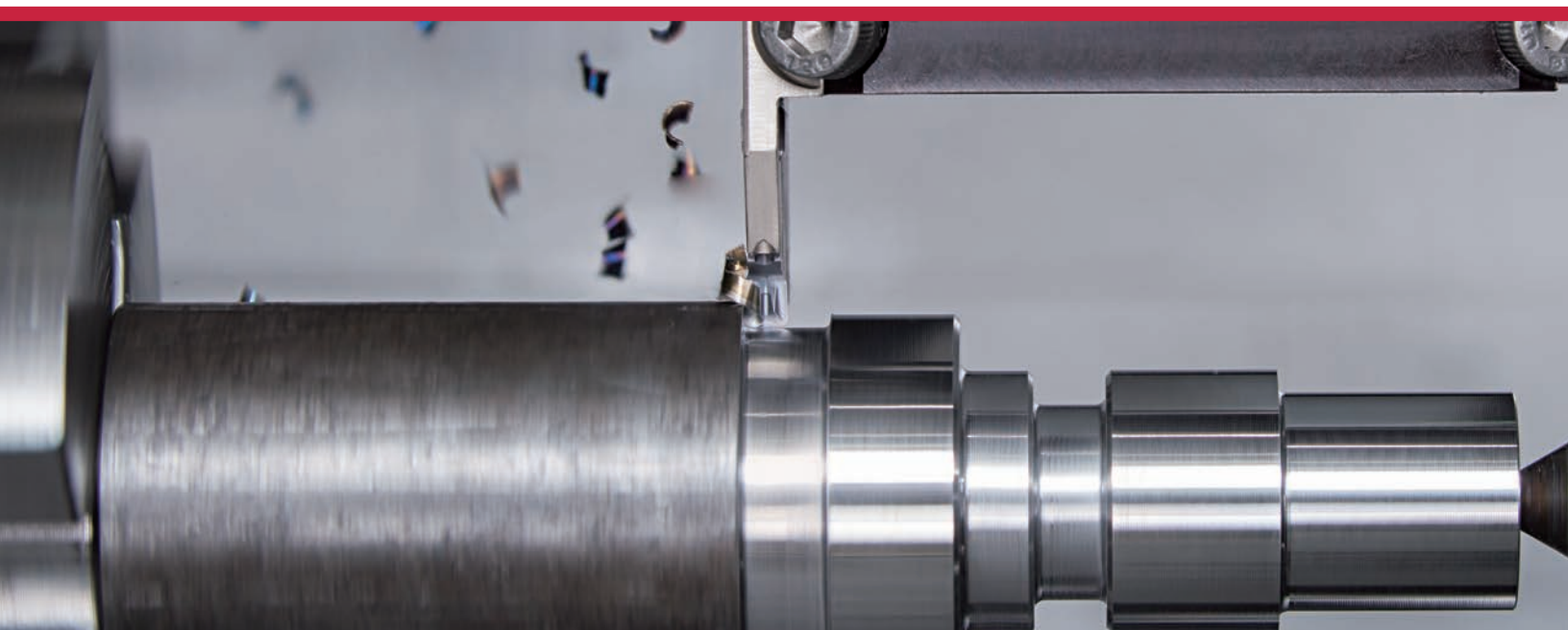
New modular blade system provides machining security and efficiency as well as tool cost reduction

New Grade AH7025 for general purpose. New PVD coating with high Al content provides excellent adhesion strength. Improves wear and chipping resistance.

Enhanced chipbreaker selections in combination with AH7025 grade offers productivity and stability in a wide range of materials and applications.

Other Available Grades:

AH725, T9125, GH130, KS05F, NS9530, AH905, TH10



Deep hole drilling with remarkable productivity and stability

Features:

Good chip control and smooth chip evacuation achieved due to the special insert geometries

Drill bodies for lathes, machining centers, and gundrill machines:

MCTR... for machining centers: Stocked in 8xD, 10xD, 15xD, 20xD, and 25xD.

TRLG... for gundrill machines: Offered up to the length of 94.48". The minimum length is 15.74".

Also available in a variety of drill holding drivers for different types of spindle interfaces.

Guide pads **GP...**: Equipped with 2 usable edges.

Insert: TOHT... (with chip splitter) Available in 5 sizes to cover *DC* 0.55" to 1.10"

Insert: FBH... FBM... Available in 3 and 4 sizes respectively to cover *DC* 1.14" to 1.57"



TOHT



FBH / FBM inserts



Changeable head drill system for solid productivity

Features:

Excellent cutting performance and tool life due to new head geometries and innovative grade AH9130

Dovetail interlocking system enhances drill head stability and simplifies drill set up

Drill bodies:

TID flange type: Available in 1.5xD, 3xD, 5xD, 8xD, and 12xD (12xD to be used with collets or hydro-grips)

TIDC straight type: Suitable for use with TIDCF chamfer holders

TIDCF chamfer holder: Available with 3 types of inserts in chamfering angles of 30°, 45°, and 60°

Drill head: DMP... (AH725) **DMC...** (AH9130)
DC: $\varnothing 0.236''$ - $\varnothing 1.02''$ in increments of 0.0039"



DMP (AH725)

General purpose for various materials and machining situations



DMC (AH9130)

Self centering point and double margins ensure excellent hole diameter accuracy and roundness



TUNGSIX-DRILL

TUNGALOY

Indexable drill with 6 cutting edged insert for high productivity

Features:

Double-sided insert with 6 cutting edges.

One type of insert is applicable for both **central** and **peripheral** pockets to simplify inventory.

Twisted coolant holes allow the cross section of flutes to be large and increase coolant volume.

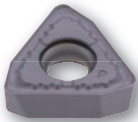
Drill bodies:

TDS: Available in L/D 2, 3, and 4

øDc: ø0.812" - ø2.000"

Available Grades:

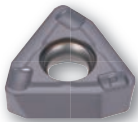
AH3135, AH9030, AH6030



WWMU-DJ

Size: 05, 06, 08, 09, 11, and 13

DJ: Well-designed and suited for general steel, cast iron, and hard materials.



WWMU-DS

Size: 05, 06, 08, 09, 11, and 13

DS: The first choice for mild steel, such as stainless steel and low carbon steel.





FOCUS PRODUCTS

H I G H L I G H T S

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