HOWEVER YOU ROLL THE DICE,

our Full Material Solutions will cover ALL your needs!







tungaloy.com/us ntkcuttingtools.com/us



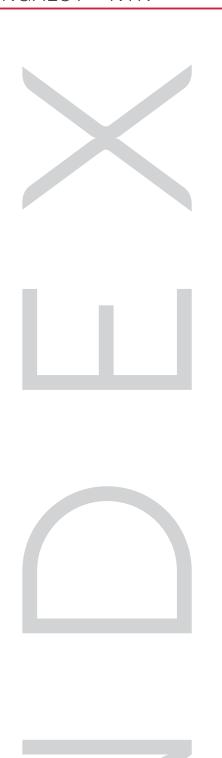


Welcome to the Powerhouse of Precision: Tungaloy + NTK Highlights!

Unveil the epitome of innovation and expertise. Tungaloy and NTK, a dynamic alliance, form a powerhouse that goes beyond expectations. Together, we redefine the landscape as a comprehensive full material supplier, offering solutions tailored to every material type.

At the core of our excellence lies cutting-edge manufacturing for PVD, CVD, CBN, PCD, Ceramics, and Cermet inserts, covering all machining needs. This union is not just arithmetic; it's an equation where 1+1>2, showcasing that the whole is truly greater than the sum of its parts.

However you roll the dice, our full material solutions will cover all your needs!



GRADES - 6

CVD grades

T9200 series

T6200 series

T500 series

PVD grades

AH6200 series

AH9130

AH3225

Miniature Machining

AH7025

SH7025

NTK650

ST4

DM4/DT4

ZM3/TM4

CBN grades

BXA10

BXA20

BR35F

PCD grades

PD1/PD2

DX110 / DX160 / DX200

CERAMICS grades

JX3/JX1

SX3/SX9/SX7

SX6/SP9

HC1/HC2/HC6

CERMET grades

NS9530/GT9530/AT9530

TURNING - 24

AddMultiTurn

Y-axis Turning Solutions

BoreMeister

ModuMiniTurn

MultiFunctional Tools

TinyMini-Turn

Thread Whirling

ShaperDuo

The Front Max

TMV Chipbreaker

ACH

GROOVING - 46

MILLING - 60

HighFeed Milling

TungForce-Rec

TungMeister

DoMultiRec

ExtendedForceMill

JRF Cutter

Ceramatic

HOLE MAKING - 74

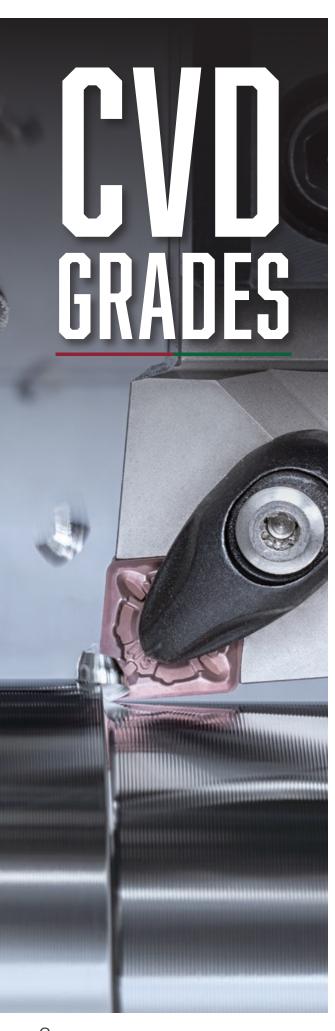
Head Exchangeable drills

Modular DrillMeister series

DeepTriDrill

ReamMeister









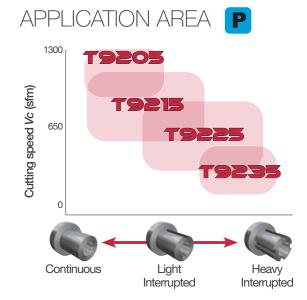






CVD grade series with outstanding productivity, especially for steel turning

Nearly unbreakable CVD series for improved machining efficiency







Highly reliable CVD grade series for high-speed stainless steel turning

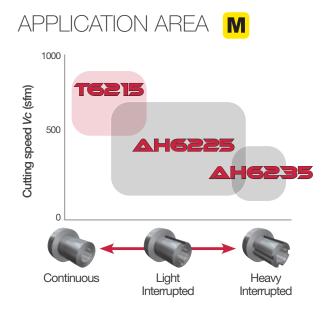
Complete grade line up for stainless steel turning

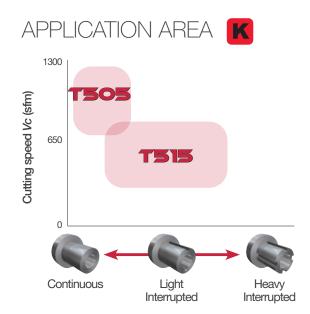


T500 K

Most optimal CVD grade series for high speed machining of cast iron

The thickest coating layer of all Tungaloy's CVD grades ever





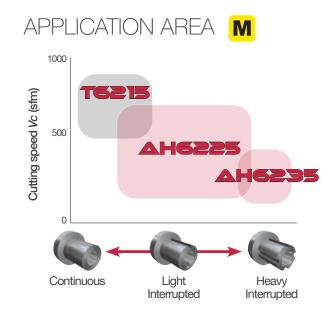




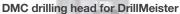
AH6200 M

Highly reliable PVD grade series for light and heavy interrupted stainless steel turning

Complete grade lineup for stainless steel turning









LNMU insert for AddDoFeed



The latest PVD grade developed specifically for hole making applications

A good combination of wear and fracture resistance enhances the grade's tool life and wear prediction.

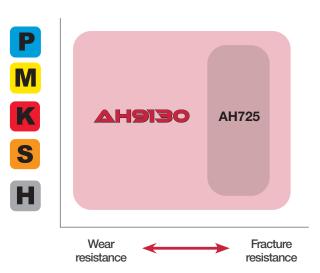




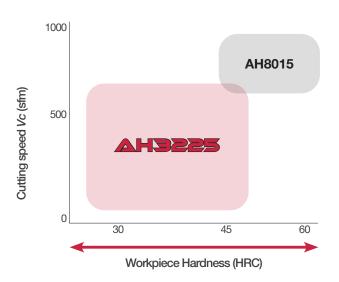
A highly reliable PVD grade for milling operations

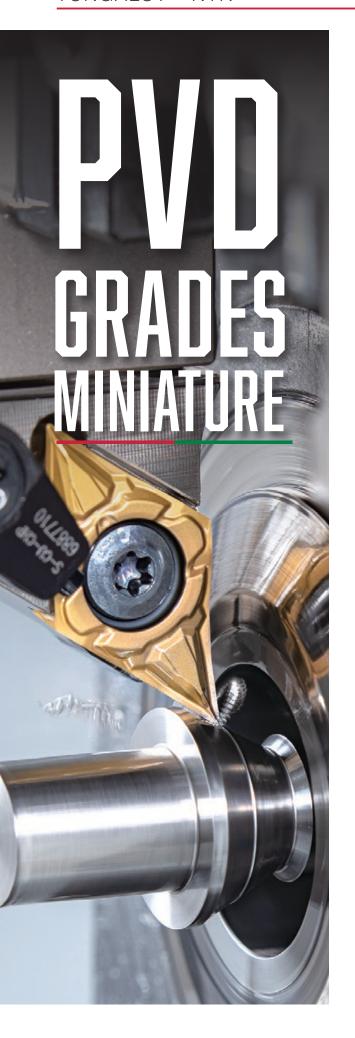
Eliminates coating delamination and micro edge-chipping while impeding the progression of normal flank wear, providing long and predictable tool life in steel milling operations.

APPLICATION AREA



APPLICATION AREA









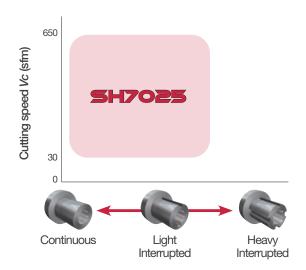




Superior surface quality in small part machining is achieved with a unique columnar-structured TiCN coating and multilayered TiAIN coating

Superior surface quality and process security in small part machining

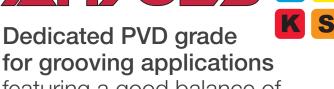
APPLICATION AREA











featuring a good balance of wear and chipping resistance.

AH7025 uses the world's first coating technology of a nano-scale multi-layered AlTiN PVD coating with high Al content.

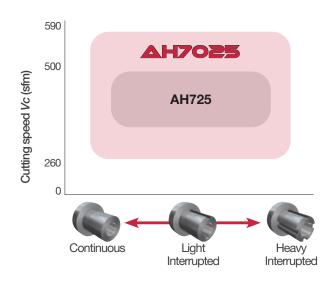
ZM3/TM4



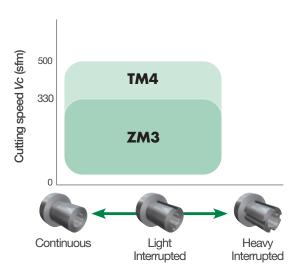
General-purpose PVD grades suitable for a wide range of machining applications on Swiss lathes

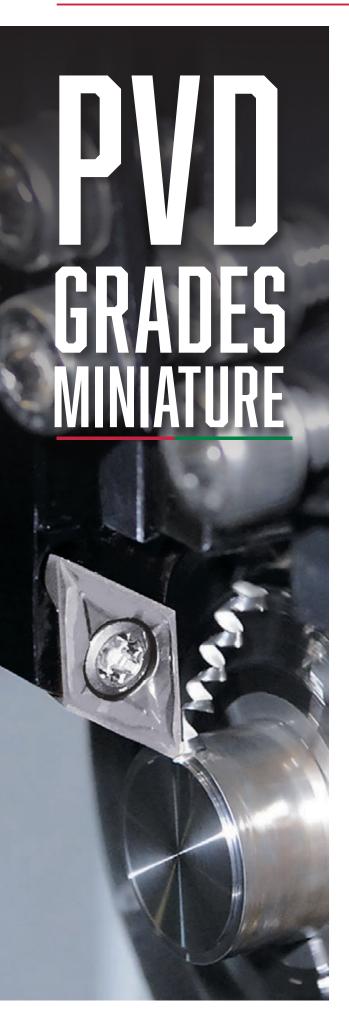
Featuring both excellent adhesion and wear resistance

APPLICATION AREA



APPLICATION AREA







NTK650

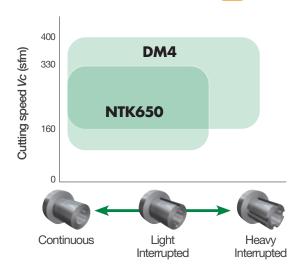


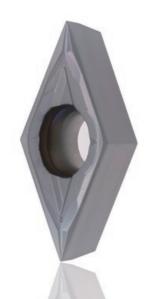
Outstanding productive PVD grades for machining Ni based components

Latest HiPIMS coating technology for Improvement of surface-smoothness and suppression of imperfections in film

APPLICATION AREA S







ST4^M

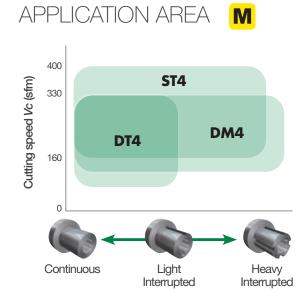
Dedicated PVD grade for stainless steel machining with high hardness and oxidation resistance

Outstanding tool life with efficient machining of difficult to cut stainless steels and steels



grades for heat resistant alloys and titanium alloys

Featuring an unparalleled stable machining even during high temperature machining conditions





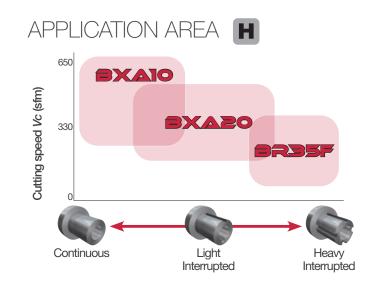






CBN Grade for continuous hardened steel turning

Incredible reliability with excellent wear resistance







Versatile **CBN grade** for continuous to light interrupted hardened steel turning

Enables stable machining at low to medium cutting speed





Efficient **CBN grade** for heavy interrupted hardened steel turning

Incredible reliability with high fracture resistance

HARDBREAKER SERIES **CBN** chipbreaker series for hardened steel 0.047 0.039 Depth of cut: ap (in) 0.031 0.024 0.010 0.008 0.006 0.008 0.010 0.012 0.014 0.002 0.004 Feed: f (ipr)

For removal of carburized layer

Breaker shape with excellent chipping resistance in deep cuts

For removal of carburized layer

- Reliable chip restraint over a wide cutting area
- Breaker shape for low cutting resistance and crater wear

For high feed finishing

- Breaker shape for excellent chip control
- Edge prep to prevent catastrophic failure

For precision finishing

Breaker shape suitable for precision finishing



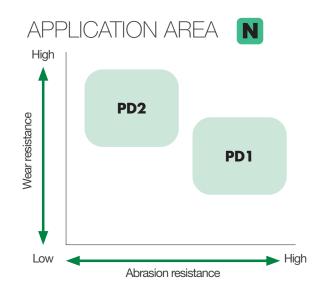


PD1/PD2 N



Excellent durable PCD grades with sharp cutting edge and increased chipping resistance for higher performance

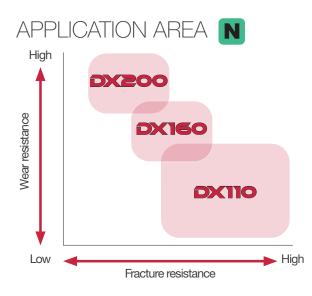
3D chipbreaker selection exhibiting increased sharpness and excellent adhesion resistance







Featuring strongly-bonded diamond grains that prevents the grains from breaking off during machining







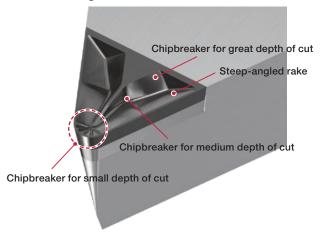


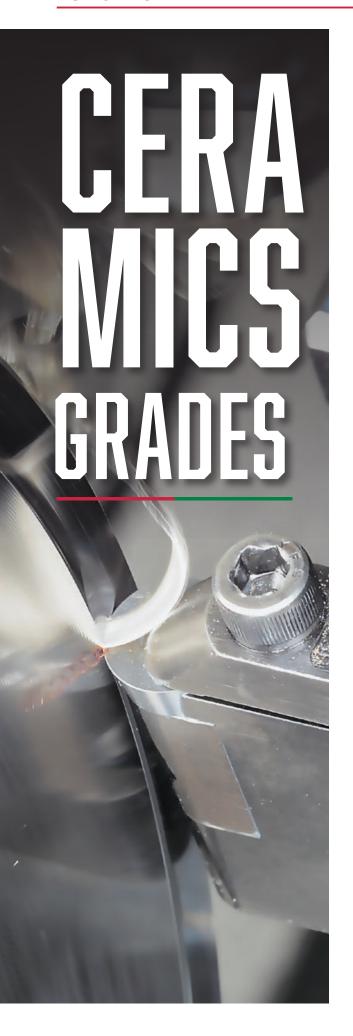
100% diamond grade perfect for machining tungsten carbide and other superhard non-ferrous metals

Featuring a sharp cutting edge that provides excellent surface finish



PCD inserts with **3D chipbreaker** for excellent chip control, suitable for both roughing and finishing operations. Available for **DX110** and **DX160** grade series

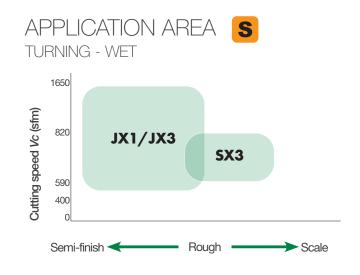






BIDEMICS Line a **NEW ERA** of turning for Heat resistant alloys with ultra-high productivity

The ultimate semi-finisher of heat resistant alloys with higher quality and longer tool life than whisker ceramics



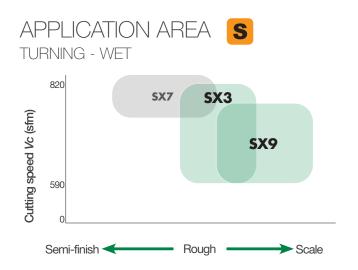


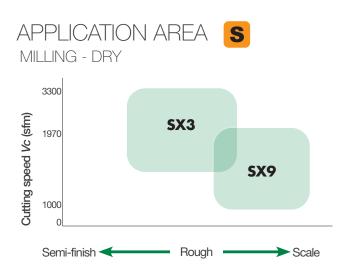
First recommendation for heat resistant alloys machining for high-speed turning and milling with stable performance

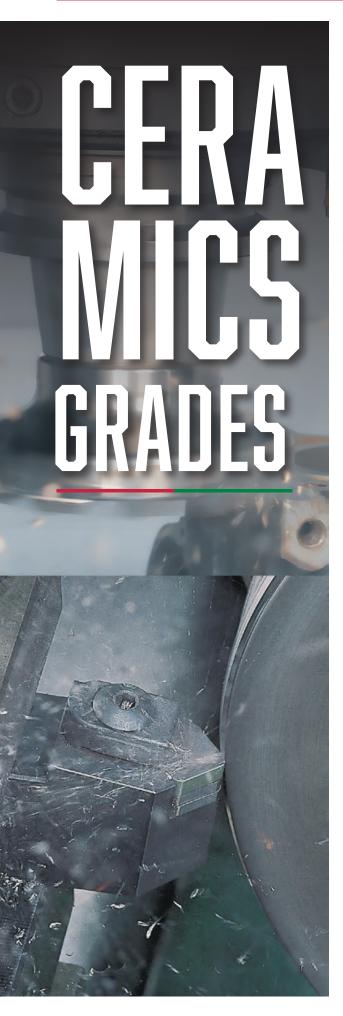
Machines wide range of conditions in materials from the commonly used heat resistant alloys like Inconel 718 to the newer generation of materials like Rene

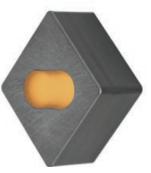


Best grade for roughing heat resistant alloys like Inconel 718 with scale









SX6 K



First recommendation for rough turning and milling cast iron

Ceramic grades series with outstanding boundary wear resistance and thermal shock resistance



SP9 K

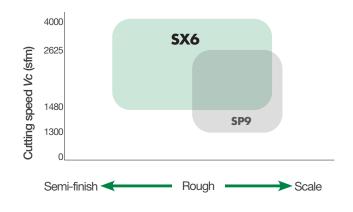


Excellent Performance for **Ductile Cast Iron**

An extremely tough material and CVD coating combine to achieve excellent fracture and wear resistance









HC1/HW2

Unparalleled ceramic series for finishing gray cast iron

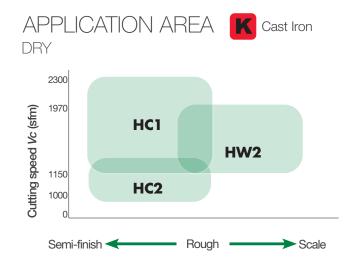
High-speed performance is achievable with the thermally and chemically stable alumina ceramic blend

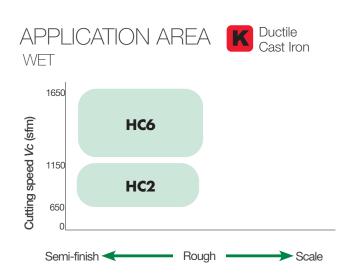


HC2/HC6

Extremely versatile grades, designed for machining various materials

HC2 excels in machining gray cast iron and ductile cast iron as well as roughing heat resistant alloys, while HC6 is our top-choice for finishing ductile cast iron.







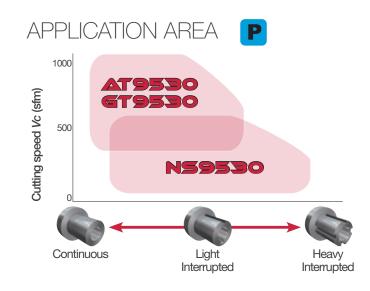


N59530



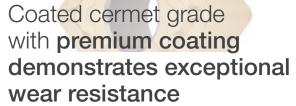
Versatile cermet grade with incredible fracture and wear resistance

Provides long tool life and excellent surface appearance in finishing to medium cutting of steels.









Provides remarkable performance in finishing of steels during high speed machining.

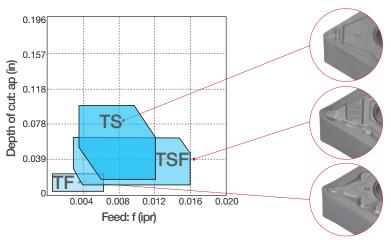




Coated cermet grade with excellent wear resistance in high-speed finishing

The 1st recommendation for machining alloy steel due to its outstanding wear resistance.

Cermet basic chipbreaker series for steel NEGATIVE TYPE INSERTS



For precision finishing

The sharp cutting edge and raised projection near the corner contribute to excellent chip control at very small depths of cut and low feeds.

For finishing

The dimple structure decreases the contact area between the insert surface and chips, resulting in significant reduction of heat occurrence.

For finishing to medium cutting

The sharp cutting edge allows excellent chip control when machining shaft type components.

ADDMTÜRN

THE ULTIMATE TOOL FOR MULTIPLICITY



Front Turning, Back Turning, Profiling, and Face Turning, with **ONE SINGLE TOOL**



Unique concave-convex shape on the bottom of the insert provides outstanding clamping rigidity and securely locks the insert in place ensuring tool reliability when turning in any direction.

Cutting edge with a low approach angle allows high feed machining.

Also effective for removing burrs.

The positive triangular insert features 86° nose angle for enhanced cutting edge robustness.

The positive triangular insert has integrated wipers, which provide high surface finish quality at significantly increased feed rate.

Two types of double-sided negative inserts are available with 80° or 35° nose angles.

AddMultiTurn can combine multiple processes in a single operation, maximizing machine utilization and productivity.



3C-TCMT 86º POSITIVE INSERT 3

CUTTING EDGES

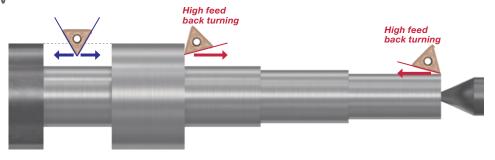




TCMT type

Single sided, 3 cutting edges Max feed rate: 2 mm/rev

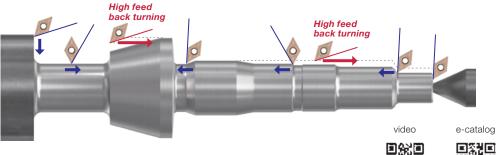




DCMT type

Single sided, 2 cutting edges Max feed rate: 1.2 mm/rev









Y-AXIS TOOL HOLDER SERIES

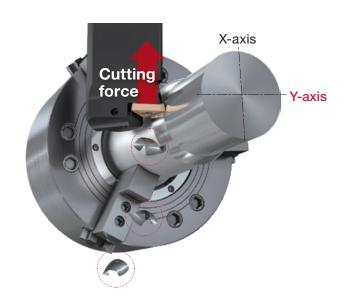


A turning point to increase your productivity

By using the Y-axis instead of the conventional X-axis the tool can direct the cutting force in the longitudinal axis of the holder, the strongest part of the tool. This provides more security during the cutting process.

By simply rotating the tool along the axis, the cutting edge angle can be set to an optimum angle that enables the most effective entry into the cut.

The same tool can be used when turning either from the end of the part towards the chuck or turning away from the chuck to the end of the part.

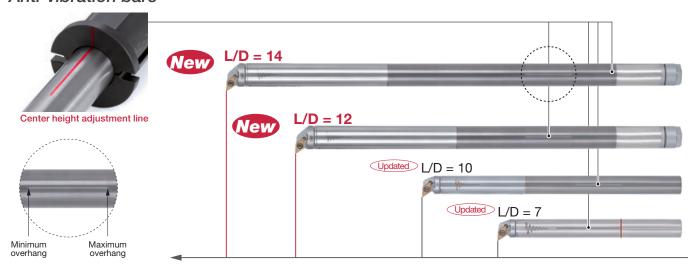


more info





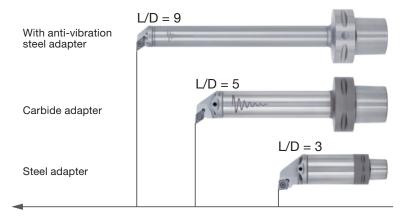
Anti-vibration bars



Steel shank



PSC adapters



BOREMEISTER

VIBRATION-FREE SOLUTION FOR DEEP HOLE BORING

High-stability and precision

Ultimate solution to conquer tool overhang challenges, chattering, noise and short tool life of up to 10xD.

Exchangeable head boring tool system with serrated interfaces for high precision and high rigidity indexing.

Through-coolant capability allows smooth chip evacuation in deep boring operations of up to 10xD.

PSC holders are also available, allowing coupling with a range of machine tools.

Dedicated setting device allows quick and accurate center height settings of the boring bar. A wide range of boring heads are available, providing high parts quality in various boring operations









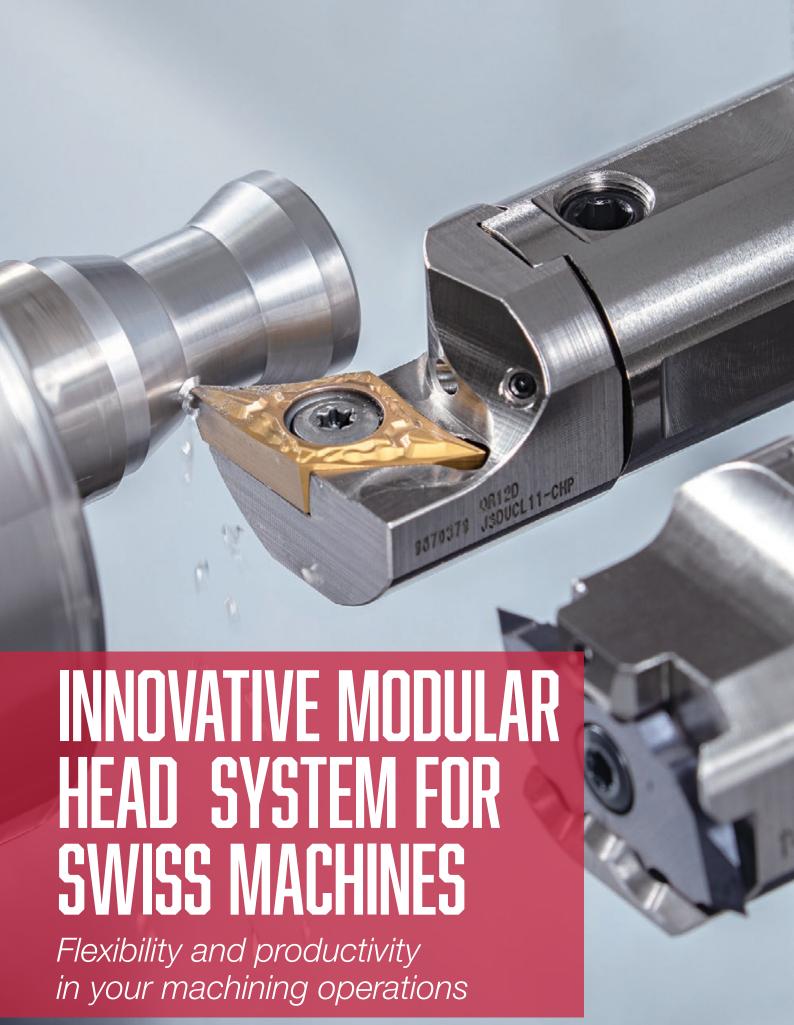
AddInternalCut, TungCut, and AddForceCut heads











MODUMTURN

Modularity and productivity with a wide selection of turning, grooving and threading heads



Quick tool change and setup is possible with simple exchanges of turning heads.

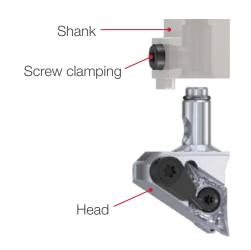
Unique coupling method provides stable head-shank connection and secure insert edge position for good repeatability and accuracy.

Positioning accuracy for the same insert: ±5 µm

New round shank toolholders for back machining

QC10, QC12 & QC16 type series

ModuMiniTurn offers precision internal coolant delivery, which improves chip control and tool life.







MULTIFUNCTIONAL TOOLS FOR DRILLING AND TURNING

Reduced machine downtime thanks to eliminating the need for tool changes.

Minimum bore diameter: DMIN (mm)

TIN	Y M	Turi	JMU	LTI	TUNGEMINI								
ø3	ø4	ø5	ø6	ø7	ø10	ø12	ø14	ø16	ø18	ø20	ø25	ø32	
	Solid carbide boring bar					Indexable							





TBMFR07...

From drilling to internal, external, and face turning L/D = 2 & 3

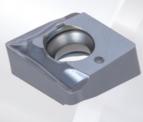


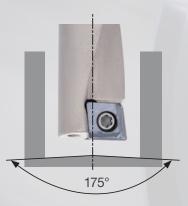
Three strategically positioned coolant grooves ensure effective chip evacuation and control.



XOMU-PS

Optimized chipbreaker design enables effective chip control in all applications





Creates a near-flat hole bottom



Creates a flat hole bottom with excellent chip control, thanks to its unique chipbreaker





MINIATURE SOLID BORING TOOLS FOR HIGH ACCURACY

Efficiency and profitability to your small boring operations as small as Ø0.6 mm

New *SH725* insert grade provides a good combination of wear and fracture resistance, ensuring long tool life and wear prediction.

Expanded indexable type holders, and inserts with 3D chip breaker for better chip control.

Ideal for machining extremely small diameter bores in a wide range of materials.



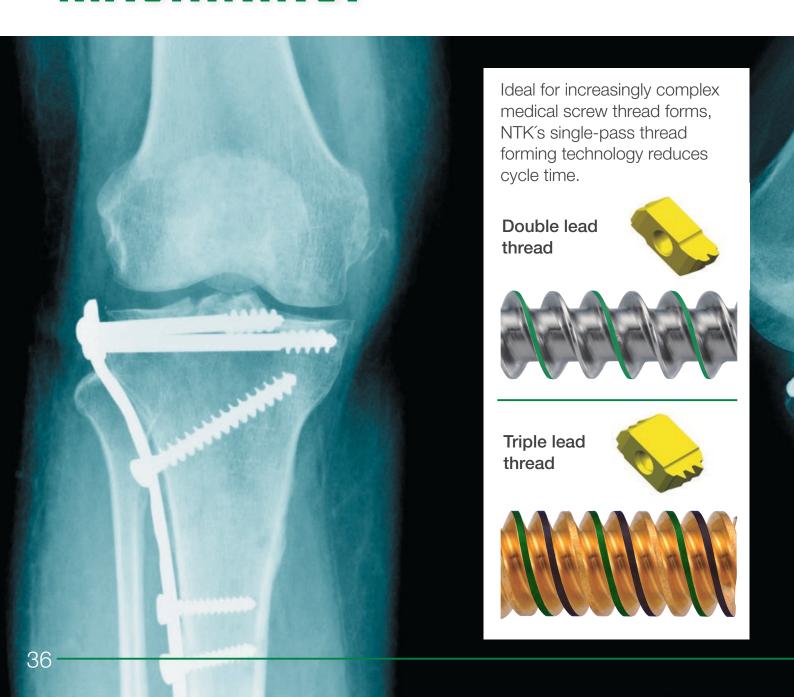
Available with a wide selection of heads for boring, profiling, chamfering, threading and grooving



Available in three minimum bore diameters (DMIN): 2.8, 4 and 5 mm, and in 2xD and 3xD tool lengths



MAXIMIZE EFFICIENCY: ONE SINGLE PASS, MULTI-LEAD THREADS MACHINING!

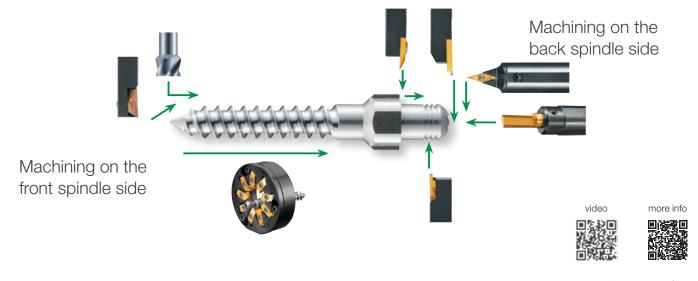


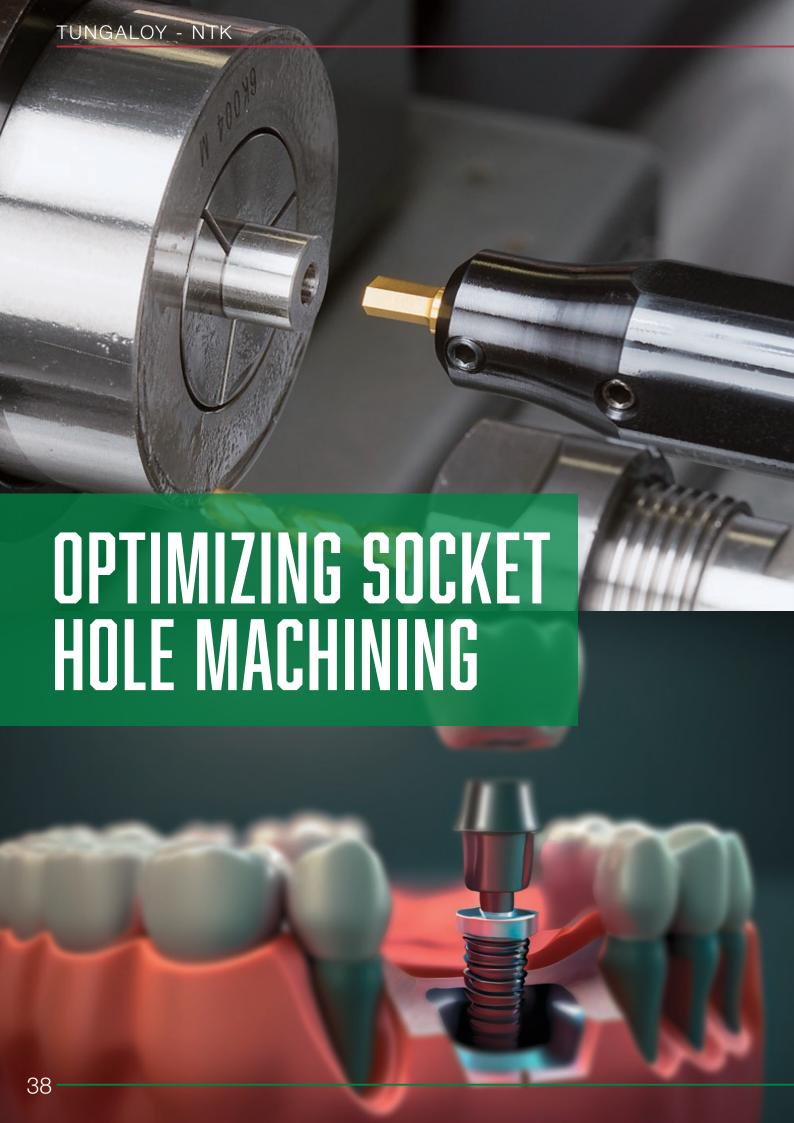
Thread Whirling

Cutting-edge system for unparalleled productivity in screw manufacturing, such as dental implant and bone screws



Tooling layout





SHAPER DUO

Hexalobular (6-lobe)



T6-T30

Hexagon



HEX 1.0 - 8.0

Square



AF 2.0 - 8.0

Ideal for a variety of applications







Hexagon & Square socket process comparison

	Tool pressure	Cycle time	Flexibility	Tool cost	
Shaper Duo	A.B.	4			Less tool pressure, especially good for small diameter parts. One insert can machine a range of socket sizes
Broach	-		-	-	You need a tool for each socket size

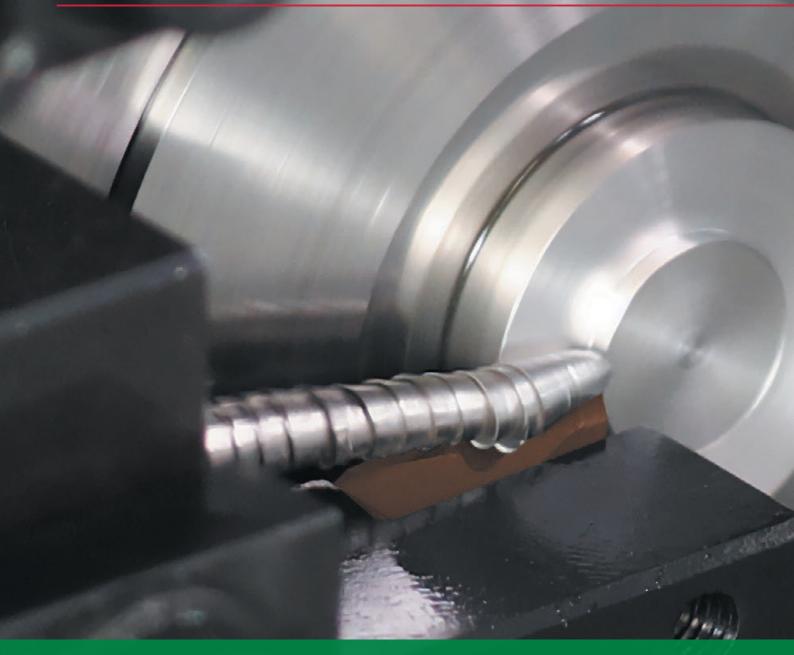
Hexalobular (6-lobe) socket process comparison

	Tool pres- sure	Cycle time	Tool Cost	High speed spindle	Program	
Shaper Duo	MB.		個	Not necessary	Simple	No need for a high speed spindle
Milling			-	Necessary	Complicated	Requires high speed spindle

Hexagon socket: AF 1.0mm - 1.4mm

For Abutment screws



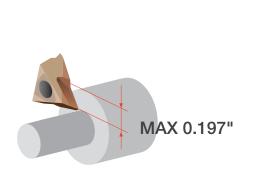


EFFICIENT SINGLE-PASS TURNING WITH DEPTHS OF CUT UP TO 0.197"

Reduce Cycle Time, Minimize Insert Wear, and Extend Tool Life

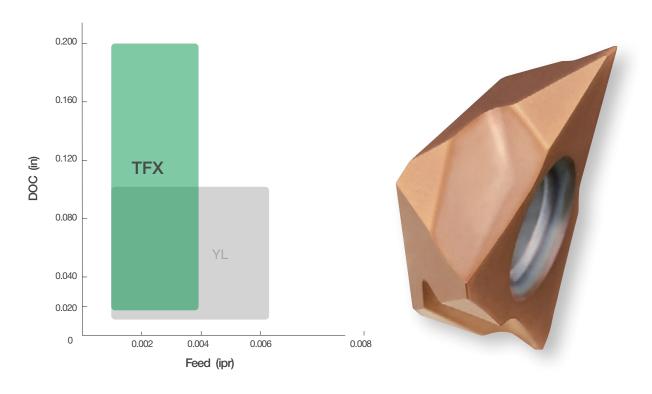
The Front Max

Revolutionary Chipbreaker Design Delivers Superior Chip Control and Surface Finish





APPLICATION RANGE











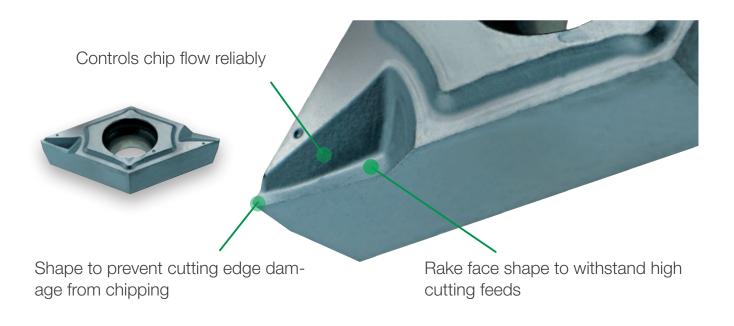
* LFV is a registered trademark of Citizen Watch Co., Ltd.

THE UNARGUABLY PREMIER CHIPBREAKER SOLUTION

TMV Chipbreaker

Outstanding chipbreaker for vibration machining, ensuring long tool life and stable chip evacuation even in the most challenging scenarios

Featuring reduced cutting edge wear and stable chip formation throughout the process, achieving high performance.



Available Geometries

DCGT



TNGG



CCGT



VCGT







SPECIAL HOLDER SERIES DESIGNED FOR PRECISE Y-AXIS CUTTING EDGE ADJUSTMENT

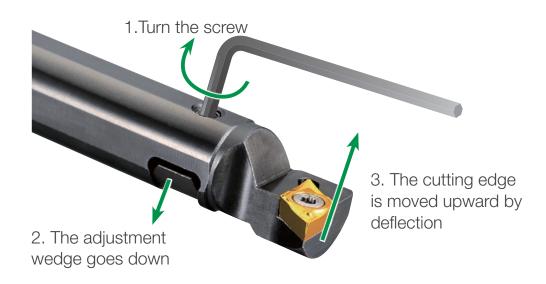
For machines without Y-2 Axis capabilities



DS-ACH holder series

Wedge mechanism adjusts centerline height of the cutting edge by turning a set screw with a wrench

Range of centerline adjustment: 0 - 0.008" Height adjustment of the cutting edge is done by turning a screw and bending the tip of the holder with a wedge mechanism. Patented holder design improves rigidity, compared to conventional holders, to eliminate vibration



Angle of rotation	Cutting edge height Increase
180°	0.002
360°	0.004
540°	0.008
720°	0.012



ADDFCUT

Newly designed insert profile ensures unobstructed chip flow and consistent chip evacuation.

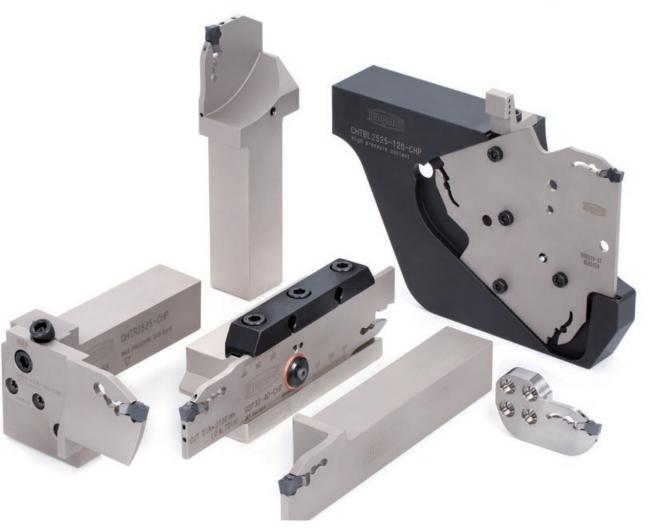
The insert is locked in three positions with the use of an insert stopper in the pocket. This design provides extremely rigid insert clamping.

QGM, QGS and QTX inserts

CW = 0.079", 0.118", 0.157", 0.197", 0.236" and 0.315" Max. grooving depths (for monoblock shanks):

CDX = 1.299"







UNIQUE 4-EDGED INSERT FOR SMALL INTERNAL GROOVING OPERATIONS

Stability and repeatability in small internal grooving operations with the unique insert clamping system



ADDICUT

The innovative clamping system eliminates insert movement caused by cutting forces.

Through-coolant holder delivers coolant from the outlet located near the insert, promoting effective chip evacuation from the cutting area.

Neutral designed insert can be mounted on either right- or left-handed holder.

e-catalog



tungaloy.com/us ntkcuttingtools.com/us



HIGH PRECISION GROOVING AND THREADING TOOL SERIES FOR CNC AUTOMATIC LATHES

A unique insert clamping system for extra tool rigidity



MINITEROOVE

Perfect for grooving and threading bar stocks of 0.472" (12 mm) or smaller

Available in 8x8, 10x10, and 12x12 mm square shanks with high-pressure coolant

VGP08... and VGP10

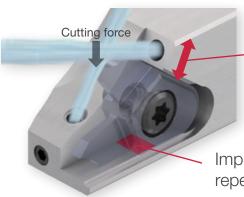
for Grooving 2 corner insert **CW** = 0.013" - 0.039"

VGT10F...

for Threading 2 corner insert **Pitch** = 0.4 - 2 mm **Cutting edge angle** = 55°, 60°







A thick support restricts the insert movements during machining

Improves the cutting edge repeatability



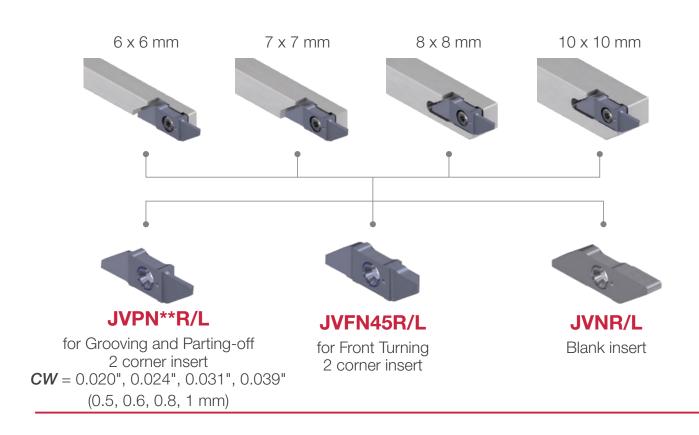




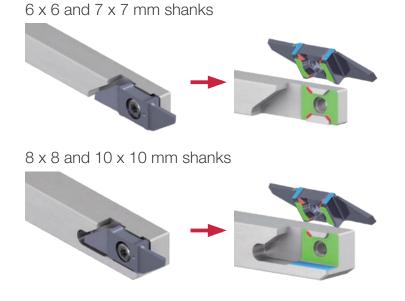


DUOFCUT

New flexible tool series with unique insert clamping system.
Ideal for machining small parts with 0.472" (12 mm) or smaller diameters.



6 x 6 to 10 x 10 mm shanks are available as standard. Innovative insert clamping allows the use of the same insert with all toolholders of different sizes.







TINYCUT

Internal grooving and thread turning tool series for bores as small as ø5 mm (ø0.197")

Tool body with through coolant technology. It offers unmatched precision and edge repeatability, thanks to its unique clamping system for rigid stability.

Featuring the latest PVD insert grade, SH7025, for superior surface quality and process security.





MGR Grooving



MGR Profiling (Full R)



Threading





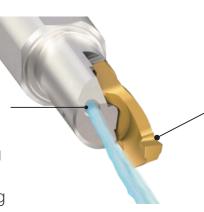


FACEMÖUT

Deep face grooving of up to 10 mm (0.393") DAXN and up to 9 mm (0.354") groove depth is possible

Internal coolant system

Coolants are directed to the optimal position close to the cutting tip, allowing excellent chip evacuation during deep face grooving



Effective chip redirector

Optimized geometry that effectively redirects chips out of the groove and to the side.

Eliminates bird nesting of chips during machining

Effectively removes chips out of the cutting area and eliminates bird nesting.

Extremely rigid insert clamping ensures tool stability during deep face grooving operations.

Sharp cutting edge, combined with **SH7025**, the latest PVD grade, provides long tool life and superior surface quality.







SAME PERFORMANCE SMALLER SIZE

New double-ended small-size internal grooving inserts with exceptional features

Enhanced chatter resistance is achieved through optimized screw placement, which strengthens the insert clamping capability.

Larger pockets facilitate more effective and smooth chip evacuation.

Toolholder series featuring an internal coolant system ensure optimal performance.



DGS*S

Lower cutting force and superior sharpness

CW = 0.079" - 0.118"

DTR*S

Full radius type **CW** = 0.079" - 0.118"

CTIR**S (Toolholder that

accommodates downsized internal grooving insert)



e-catalog







Small diameter high-feed milling cutter for expanded application coverage, featuring cutter bodies as small as Ø0.375"

Cutter bodies:

Shank type: **EXN02R...** (Short type)

EXN02R**L (Long type)

 $DCX = \emptyset 0.375$ " - $\emptyset 1.000$ "

Modular type: **HXN02R...**

 $DCX = \emptyset 0.375$ " - $\emptyset 0.750$ "



LNMU02-MM

Double-sided. 4-edged insert APMX = 0.020"







The cutter's small entry angle ensures smooth material access, perfect for long reach applications

Cutter bodies:

Bore type: **TXWX03** DCX = Ø1.500" – Ø2.000" Shank type: **EXWX03** DCX = Ø0.625" – Ø1.250" Modular type: **HXWX03** DCX = Ø16 – Ø32 mm



WXMU03-MM

Double-sided, 6-edged insert APMX = 0.039"













TUNGFREC



Extremely secure insert clamping, V shape design prevents insert movement during machining.





AV*T12

Max. depth of cut: 0.453" (11.5 mm)

Cutter bodies:

Shank type:

EPAV12

DC = Ø0.625" - Ø1.250" Ø12 – Ø32 mm

Modular type:

HPAV12-M

 $DC = \emptyset 16 - \emptyset 40 \text{ mm}$ Bore type:

TPAV12

DC = Ø1.500" - Ø2.000" Ø50 - Ø63 mm



AV*T06

Max. depth of cut: 0.236" (6 mm)

Cutter bodies:

Shank type:

EPAV06

DC = Ø0.313" - Ø1.000" Ø8 - Ø32 mm

Modular type:

HPAV06-M/S

 $DC = \emptyset 10 - \emptyset 16 \text{ mm}$ Bore type:

TPAV06

 $DC = \emptyset 40 \text{ mm}$



AV*T04

Max. depth of cut: 4 mm

Cutter bodies:

Shank type:

EPAV04

 $DC = \emptyset6 - \emptyset16 \text{ mm}$

e-catalog



TUNGMEISTER



MORE THAN 13,000 POSSIBLE COMBINATIONS

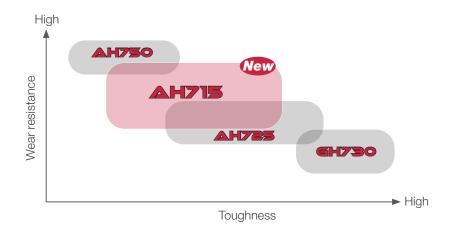
Easy and accurate head-holder coupling provides reduced tool change time and high accuracy of cutting point repeatability

Offers milling solutions for square shoulder milling, high feed milling, ball nose milling, chamfering, hole making, and slotting.

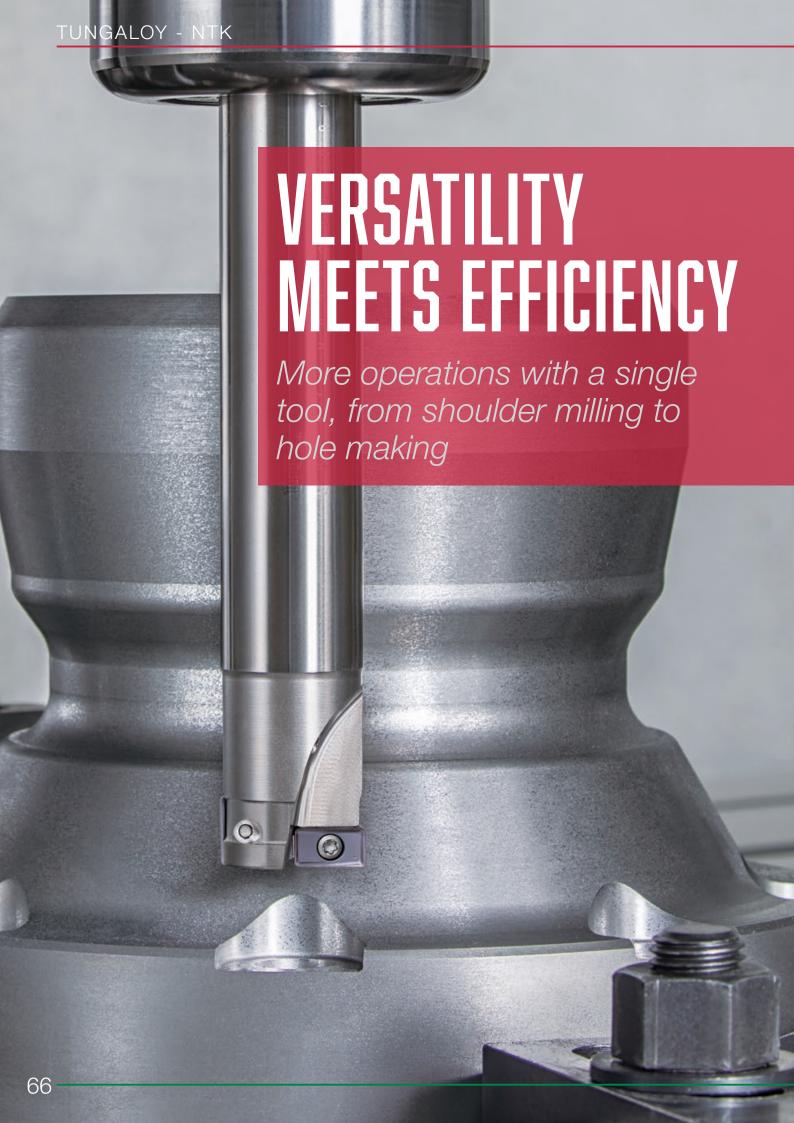
A flexible mix of heads and holders allows for an optimum tool assembly in all end milling applications.



Boost performance with the latest **AH715** PVD grade, featuring improved tool life in a wide group of materials.







DOMREC

Innovative four-edged inserts provide ultimate machining flexibility and economy. All-round cutter with center cutting capability provides ultimate machining versatility

Applications capabilities





























Face millina

millina

(with R)

(with R)

millina

Pocketing Ramping

Profiling

Plunging

enlarging

Drilling Counterboring

Cutter bodies:

Shank type: **EVLX06/08/10/12/16/19...** (Short type) DC = \emptyset 0.500" - \emptyset 1.500", \emptyset 12 - \emptyset 40mm

EVLX06/08/10/12/16/19L** (Long type) DC = $\emptyset 0.500$ " - $\emptyset 1.500$ ", $\emptyset 12 - \emptyset 40$ mm

Modular type: **HVLX06/08/10/12/16...** DC = \emptyset 12 - \emptyset 33mm

LXMU-MM





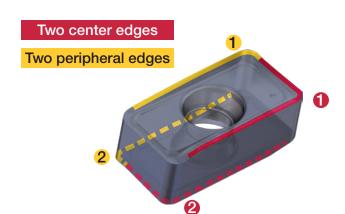








Tool dia. DC	ø0.500" ø12mm, ø13mm	ø0.625" ø16mm, ø17mm	ø0.787" ø20mm, ø21mm	ø1.000" ø25mm, ø26mm	ø1.250" ø32mm, ø33mm	ø1.500" ø40mm
APMX (in)	0.197"	0.276"	0.354"	0.433"	0.571"	0.709"
Insert size	06	08	10	12	16	19



A single insert can be used either for center edge or peripheral edge and can be used twice in each position – four cutting edges for highest insert economy.

video

e-catalog





EXTENDED FAILL

Extended-flute rough milling cutter with indexable double-sided inserts with exceptional reliability for machining titanium alloys and cast iron



SXHU...



Peripheral insert 8 cutting edges

AXHU...



Bottom insert 4 cutting edges



Cutter bodies:

Bore type: **LPSX10...**DC = Ø2.00", Ø2.50", Ø3.00",
Ø50 mm, Ø54 mm, Ø66 mm
APMX = Ø2.125", Ø3.011"

Bore type (TungCap type): **LPSX10...C** DC = Ø54, and Ø66 mm

APMX = 54 mm

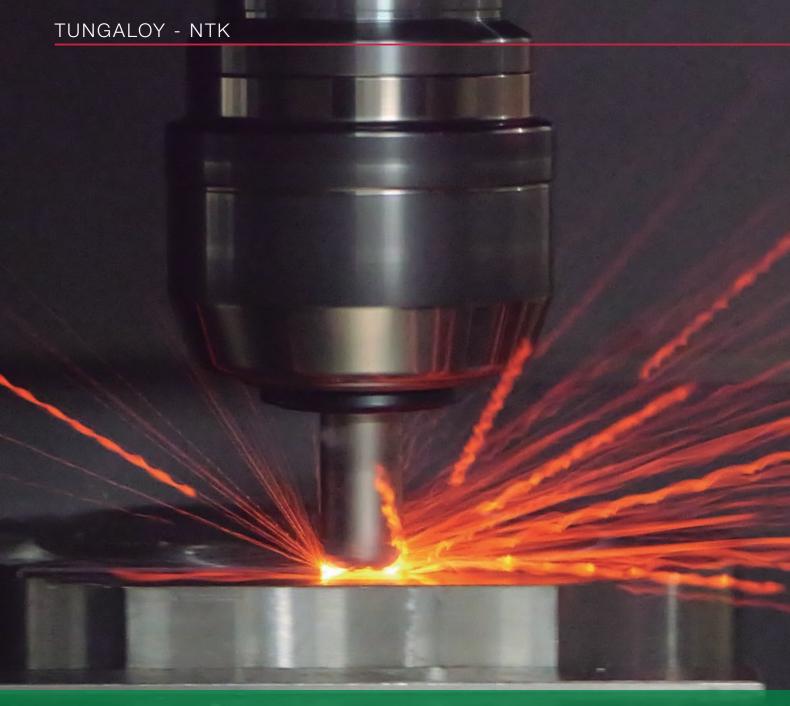
Coolant jet is directed precisely to the cutting point through the fixed coolant nozzle, exerting maximum cooling effect for the cutting edge and workpiece.



IGNITE HIGH METAL REMOVAL POTENTIAL!

Maximum productivity and cost efficiency for roughing operations of titanium alloy and cast iron parts





UNBEATABLE CERAMIC CUTTER: AS SMALL AS 00.630" FEATURING 3 INDEXABLE INSERTS



JRF CUTTER

Enhanced clamping system prevents insert movements and ensures high stability during machining

Unique step chipbreaker: reduces flaking by lowering the cutting edge from the clamping surface of conventional tools (positive inserts)

Cutter bodies:

Shank type: JRF...

DCX = Ø0.625", Ø0.750", Ø1.000" and Ø1.250"

RNGF-HNF

Double-sided APMX = 0.039" Available with **SX3** and **SX9** Ceramic grades

Clamping surface



Step chipbreaker



CERAMATIC

Productive, High Speed Ceramic Endmills series achieves rough milling operations in nickel-based alloys up to 10 times faster than carbide tools

For machines with a spindle capacity of at least 18,000 RPM (Ex. 1/2" endmill running approximately 2,000 surface feet)

RCE-H4 (SX9)

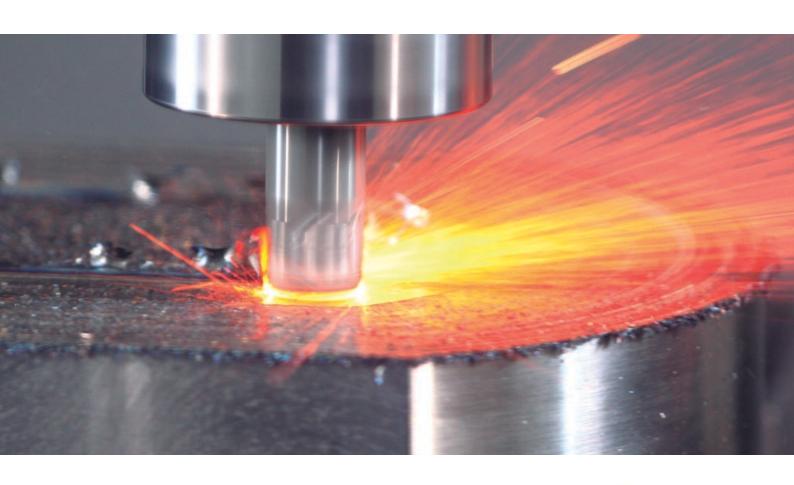
4 Flutes

DC = Ø0.315" - Ø0.500" APMX = 0.020" - 0.375"

RCE-J6 (SX9)

6 Flutes

DC = Ø0.315" - Ø0.500" APMX = 0.020" - 0.375"



UNLEASHING PRODUCTIVITY AND EFFICIENCY, A REFERENT IN CERAMIC ENDMILLS





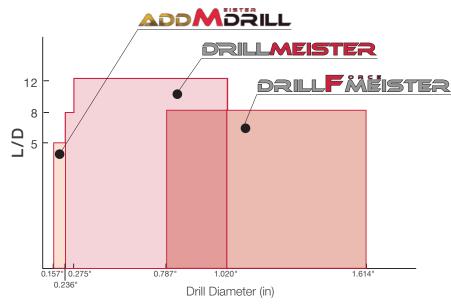
HEAD EXCHANGEABLE DRILLS

Exchangeable head drill systems for superior drilling performance and long tool life

Quick drill tip change for reduced machine downtime.

Tool inventory and management costs are significantly reduced as there is no need for regrinding.

Drill bodies are offered in a wide range of sizes and styles, allowing optimal tool assembly for secure and productive drilling.



video

e-catalog









DMF

Drill dia.: Ø0.157" - Ø0.232" Ø4 - Ø5.9 mm

General purpose drilling head ideal for various drilling applications



DMC

Drill dia.: ø0.157" - ø0.232" ø4 - ø5.9 mm

High precision drilling head with selfcentering chisel edge









DRILLMEISTER



DMP

Drill dia.: ø0.236" - ø1.020" ø6 - ø25.9 mm

General purpose drilling head ideal for various drilling applications



DMC

Drill dia.: ø0.236" - ø1.020" ø6 - ø25.9 mm

High precision drilling head with doublemargined drill periphery and self-centering chisel edge



DMF

Drill dia.: ø0.236" - ø1.020" ø6 - ø25.9 mm

180° flat edges for counterboring and flat bottoms



DMH

Drill dia.: ø0.236" - ø1.020" ø6 - ø25.9 mm

General purpose head with enhanced cutting edge



DMN

Drill dia.: ø0.268" - ø0.768" ø6.8 - ø19.5 mm

Drill head with sharp edges for non-ferrous materials

video

e-catalog





DRILLFÄËISTER



SMC

Drill dia.: ø1.024" - ø1.299" ø26 - ø33 mm

High precision drilling head with self-centering chisel edge



SMI

Drill dia.: ø0.787" - ø1.614" ø20 - ø41 mm

General purpose drilling head ideal for various drilling applications



SMF

Drill dia.: ø0.787" - ø1.614" ø20 - ø41 mm

For efficient drilling of flat-bottom holes

ON THE EDGE OF STABLE DRILL EFFICIENCY

Modular drill series featuring superb stability and high-rigidity during drilling, even in setups with long tool overhangs. While minimizing machine downtime through their quick tool change capability





Stable chamfering capability with less chattering due to dedicate insert design for chamfering



INTRODUCING SPECIAL DRILLING TOOLS AND THEIR DRAWING SYSTEM

Discover Tungaloy's platform for creating simple diagrams instantly, anywhere. Explore the 'Drawing System for Special Drilling Tools'! Enter tool details to swiftly generate diagrams illustrating special drilling tools with chamfering or boring functions.

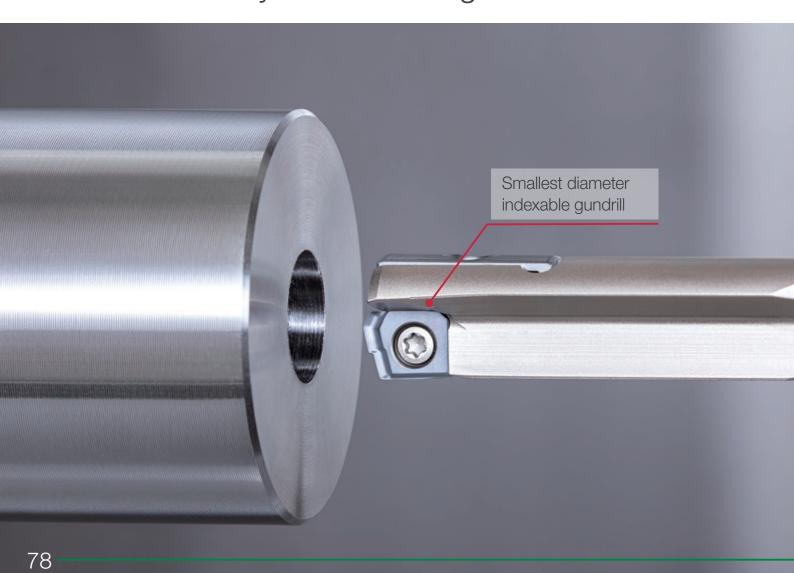


more info

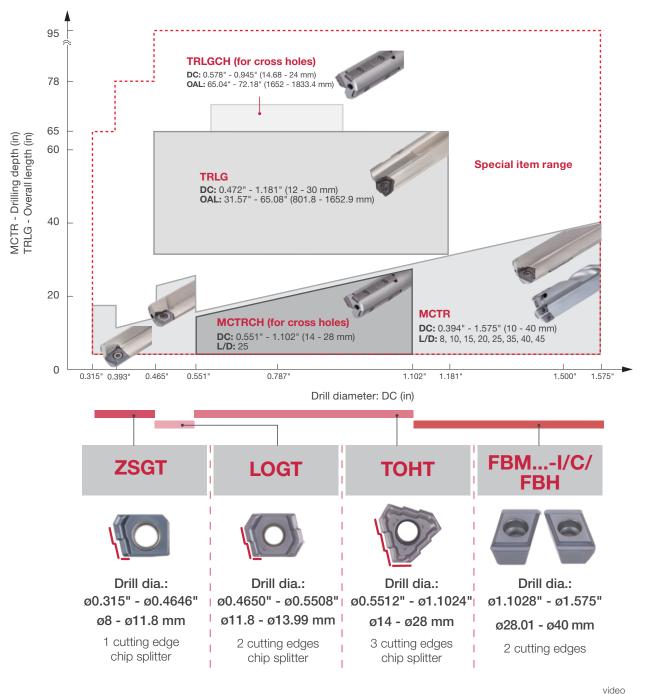
video

THE SMALLEST AND DEEPEST HOLES WITH AN INDEXABLE GUNDRILL

Wide range of indexable deep drilling solutions to your machining needs



Remarkable deep drilling solutions for gundrill machines, lathe and CNC machining centers to cover applications from 8 mm to 40 mm









Exchangeable head reamer for H7 hole accuracy in $\emptyset 10 - 32 \text{ mm}$ and 1.5 xD - 8 xD

A quick-change twist lock mechanism allows for swift tool changes.

Increased productivity thanks to high speed machining.

Minimizes costs by avoiding the needs for regrinding and re-coating.

Eliminates unstable part quality and tool life due to inconsistent re-coating quality.



Tools

Head Geometries



AS type
Tool dia.:
ø10 - ø32 mm
for blind holes applications



BL type
Tool dia.:
ø10 - ø32 mm
for through holes applications



REAMER FOR FINISHING HOLF OPERATION

Worldwide Network

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Tungaloy Corporation Head Office

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Products: Cutting Tools

Nagoya Plant

Products: Cutting Tools

Kyushu Plant

Products: PCBN PCD Tools Deep Hole Drills

Nirasaki Plant

Products: Cutting Tools
Friction Materials (TungFric)
Wear Resistant Tools
Civil Engineering Tools

NTK

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