

CVD - PVD - CBN - CERAMICS - PCD

tungaloy.com/us ntkcuttingtools.com/us



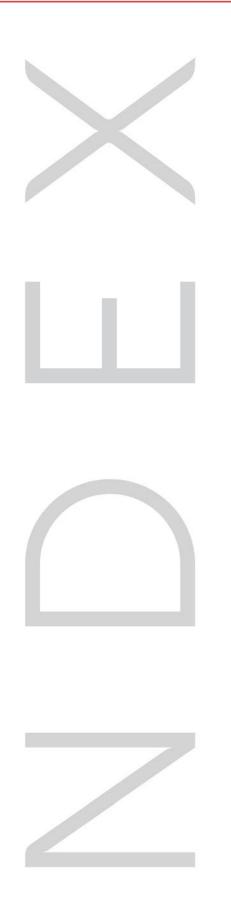


Welcome to the Powerhouse of Precision: Tungaloy + NTK Highlights!

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, and Ceramics, 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.

Deeply rooted in every material and industry



GRADES - 6

CVD grades

T9200 series

T6200 series

T500 series

PVD grades

AH6200 series

AH9130

AH7020/AH7030

Miniature Machining

SH7025

AH7025

ZM3/TM4

NTK650

ST4

DM4/DT4

CBN grades

SBN30

BXA10

BXA20

PCD grades

DX110

DX160 / DX200

CERAMICS grades

JX1/JX3

SX3/SX9

SX6

HC1/HW2

HC2

TURNING - 22

AddMultiTurn

Y-axis Turning Solutions

BoreMeister

ModuMiniTurn

MultiFunctional Tools

TinyMini-Turn

Thread Whirling

ShaperDuo

The Front Max

TMV-WP Chipbreaker

DS-ACH-OH Toolholder Series

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HighFeed Milling

TungForce-Rec

TungMeister

DoMultiRec

TungTap

JRF Cutter

Ceramatic

HOLE MAKING - 68

MILLING - 56

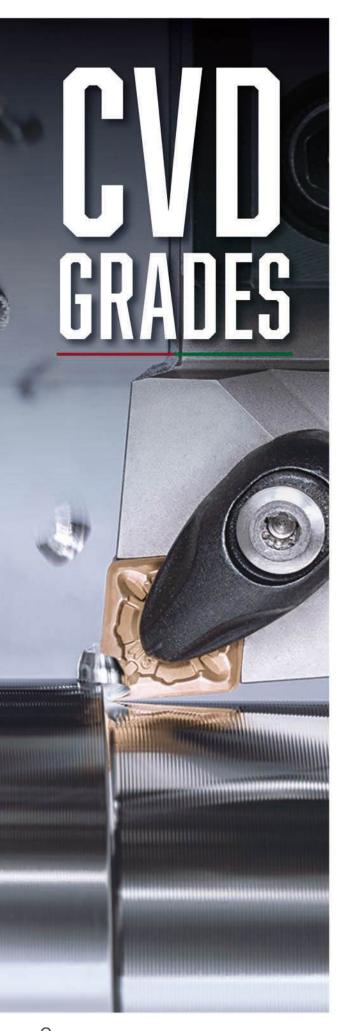
Head Exchangeable drills

Modular DrillMeister series

DeepTriDrill

ReamMeister



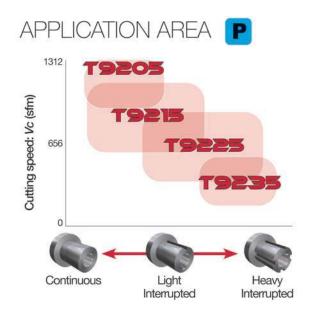






CVD grade series with outstanding productivity, especially for steel turning

Nearly unbreakable CVD series for improved machining efficiency







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

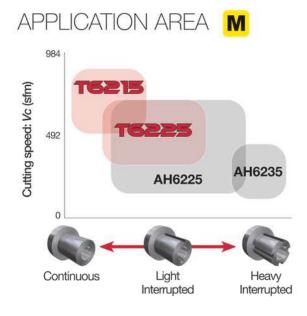
Complete grade line up for stainless steel turning

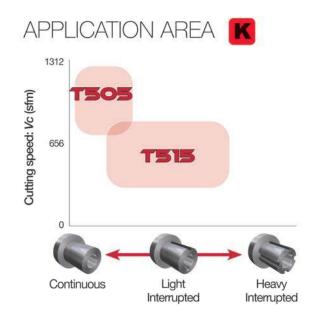


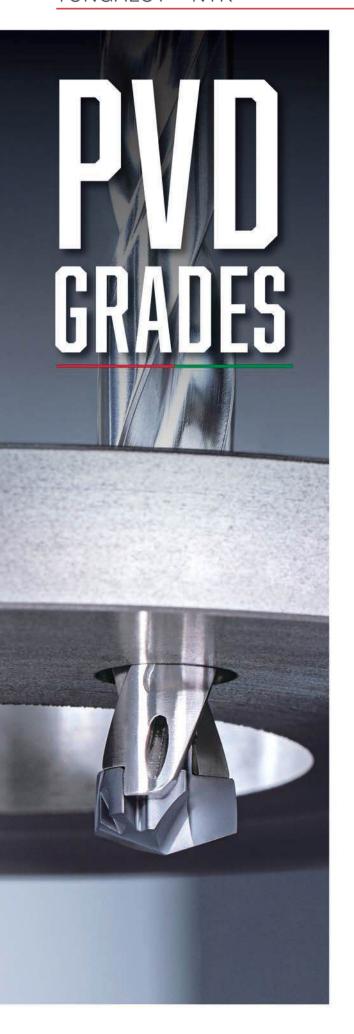
T500 K

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

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





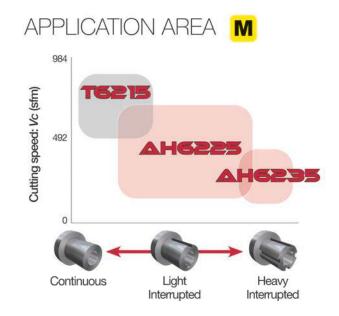




AH5200 M

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

Complete grade lineup for stainless steel turning

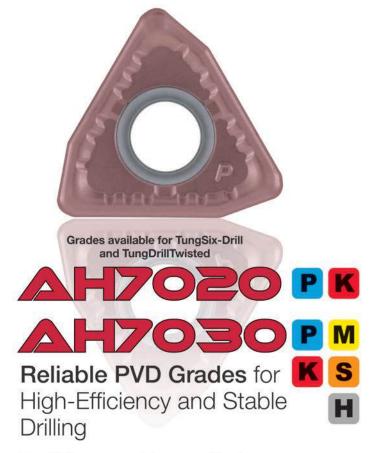






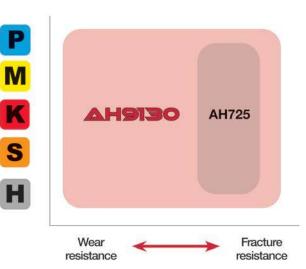
The latest PVD grade developed specifically for hole making applications

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

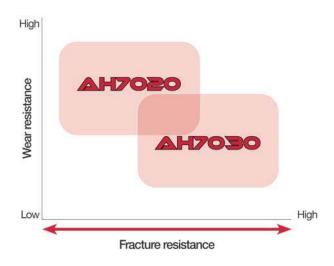


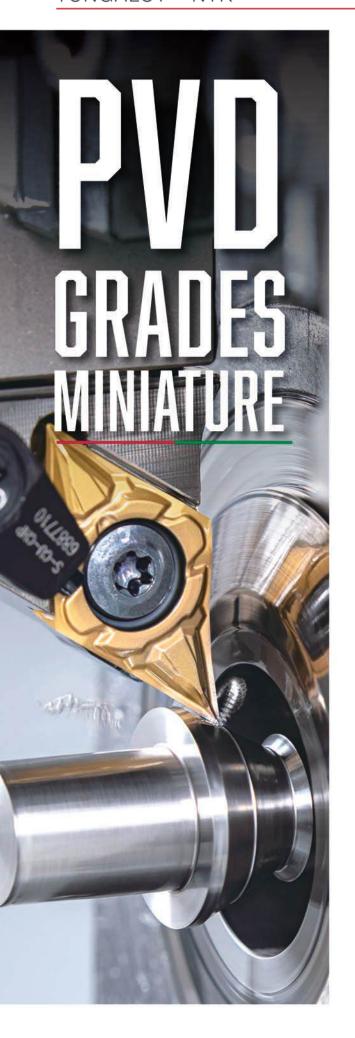
Combining wear resistance and fracture toughness, AH7020 and AH7030 deliver long tool life and process stability, from high-speed machining in steel and cast iron to unstable drilling conditions across all material groups.

APPLICATION AREA



APPLICATION AREA









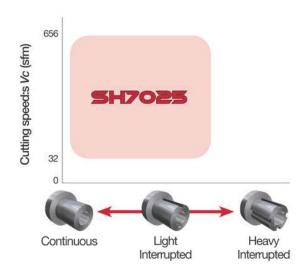




Superior surface quality in small part machining is achieved with a unique columnar-structured TiCN coating and multilayered TiAIN coating

Superior surface quality and process security in small part machining

APPLICATION AREA











Dedicated PVD grade for grooving applications featuring a good balance of wear and chipping resistance.

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

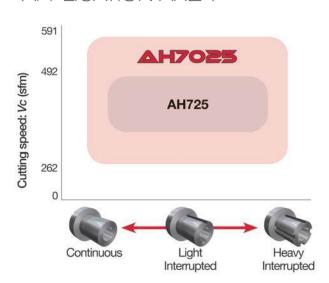
ZM3/TM4 ₽ M



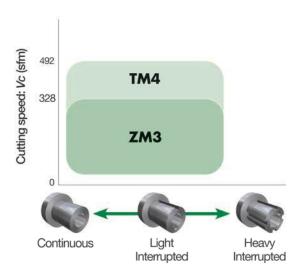
General-purpose PVD grades suitable for a wide range of machining applications on Swiss lathes

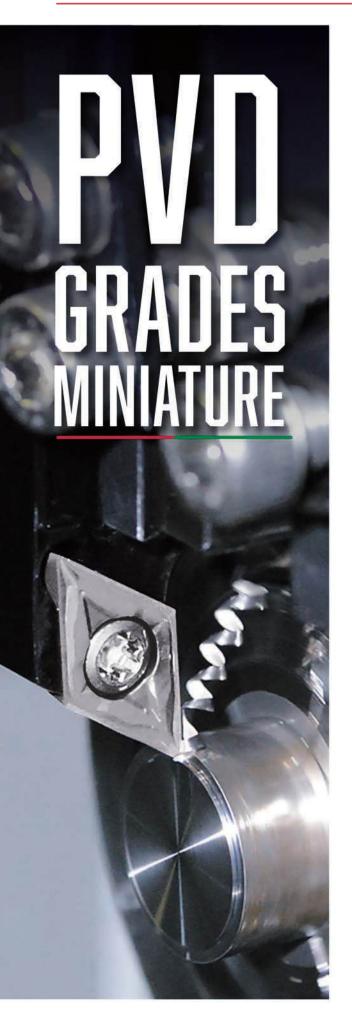
Featuring both excellent adhesion and wear resistance

APPLICATION AREA



APPLICATION AREA







NTK650 P M S





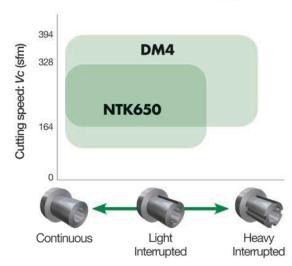


Outstanding productive PVD grade for various material groups and applications

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









ST4 M

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

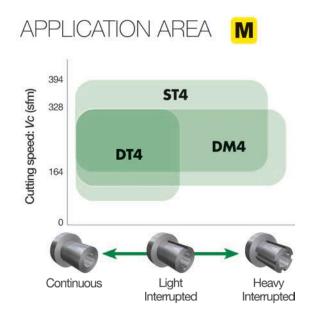
Outstanding tool life with efficient machining of difficult to cut stainless steels and steels

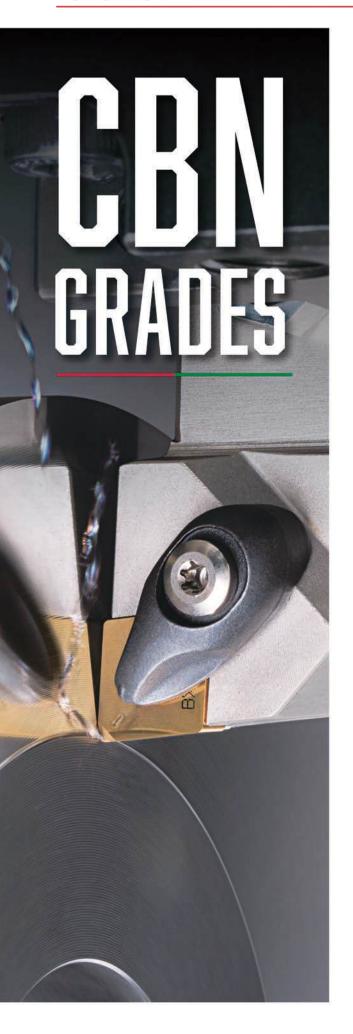


DM4/DT4 M S

High productive PVD grades for heat resistant alloys and titanium alloys

Featuring unparalleled stable machining even during high temperature machining conditions

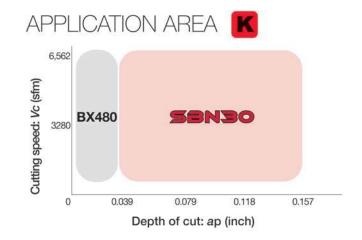






Solid CBN grade for high speed machining of cast iron

Enables deeper cuts and higher feeds with exceptional wear and fracture resistance in cast iron machining.







CBN Grade for continuous hardened steel turning

Incredible reliability with excellent wear resistance





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

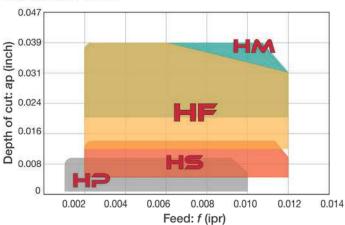
Enables stable machining at low to medium cutting speed

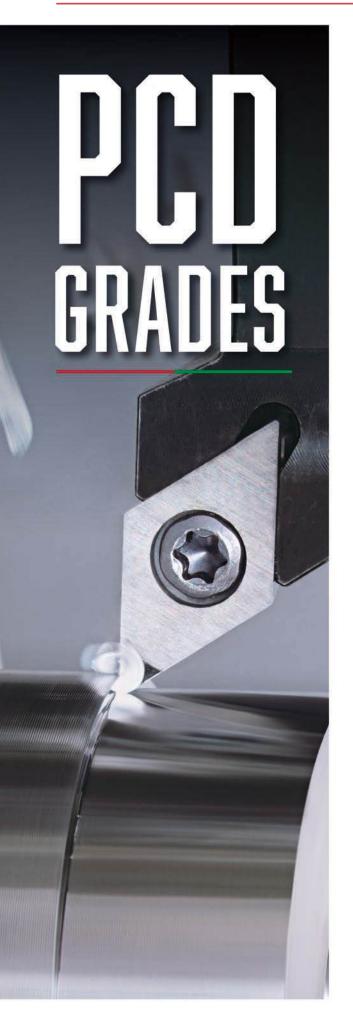
APPLICATION AREA 984 984 SMOSM 656 SXAIO Continuous Light Interrupted Heavy Interrupted

HARDBREAKER



CBN chipbreaker series for hardened steel







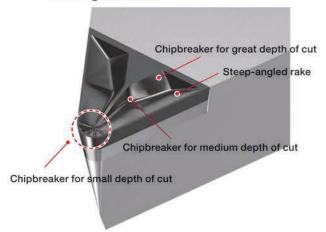


Excellent sharpness for high surface quality

Featuring a submicron grain sized PCD structure that allow's the insert's cutting edge to retain extreme sharpness and produce a superior surface finish.

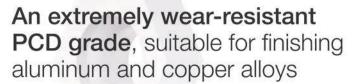
NS Chipbreaker

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









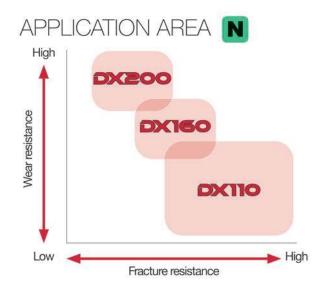
Featuring strongly-bonded diamond grains that prevents the grains from breaking off during machining

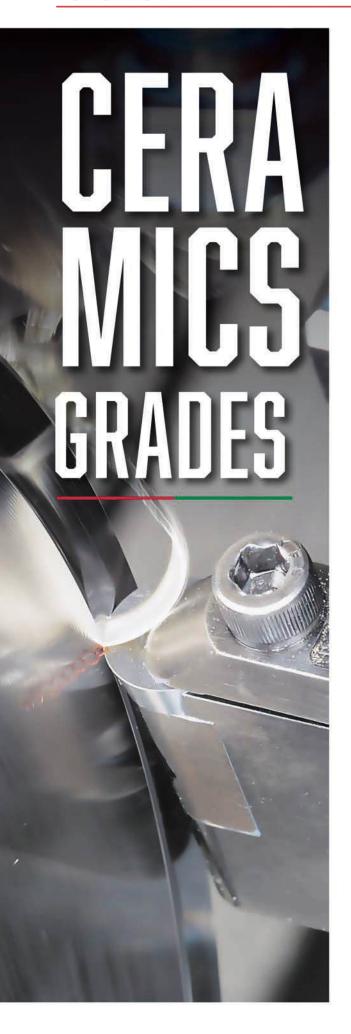




100% diamond grade perfect for machining tungsten carbide and other superhard non-ferrous metals

Featuring a sharp cutting edge that provides excellent surface finish

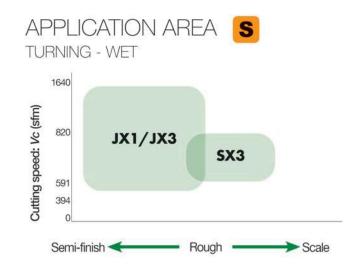






BIDEMICS Line a **NEW ERA** of turning for heat resistant alloys with ultra-high productivity

Roughing to semi-finishing of heat resistant alloys with higher quality and longer tool life than whisker ceramics



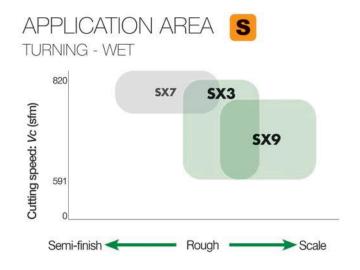


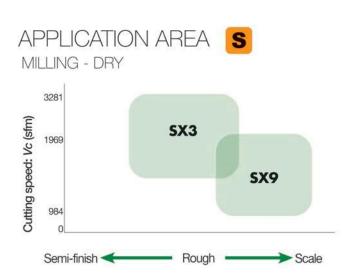
First recommendation for heat resistant alloys machining for high-speed turning and milling with stable performance

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

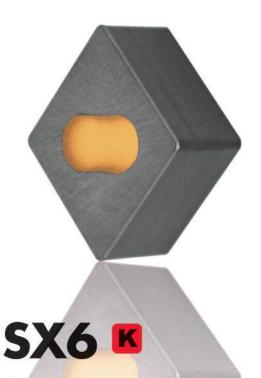


Best grade for roughing heat resistant alloys like Inconel 718 with scale



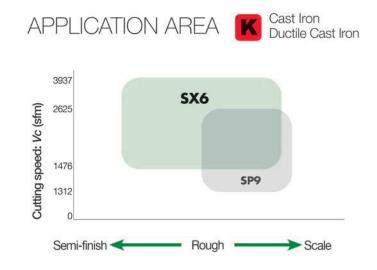






First recommendation for rough turning and milling cast iron

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





HC1/HW2 K

Unparalleled ceramic series for finishing gray cast iron

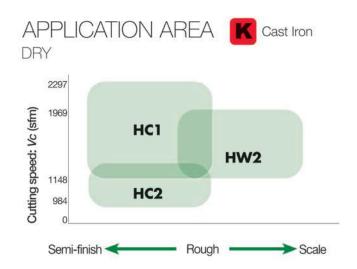
High-speed performance is achievable with the thermally and chemically stable alumina ceramic blend

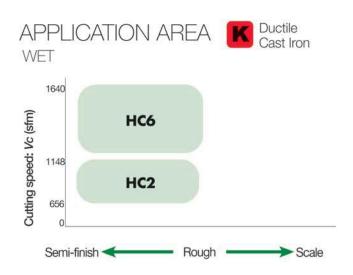


HC2 K

Multi-purpose grade capable of machining gray cast iron and ductile cast iron

Well balanced grade between wear resistance and chipping resistance







THE ULTIMATE TOOL FOR MULTIPLICITY

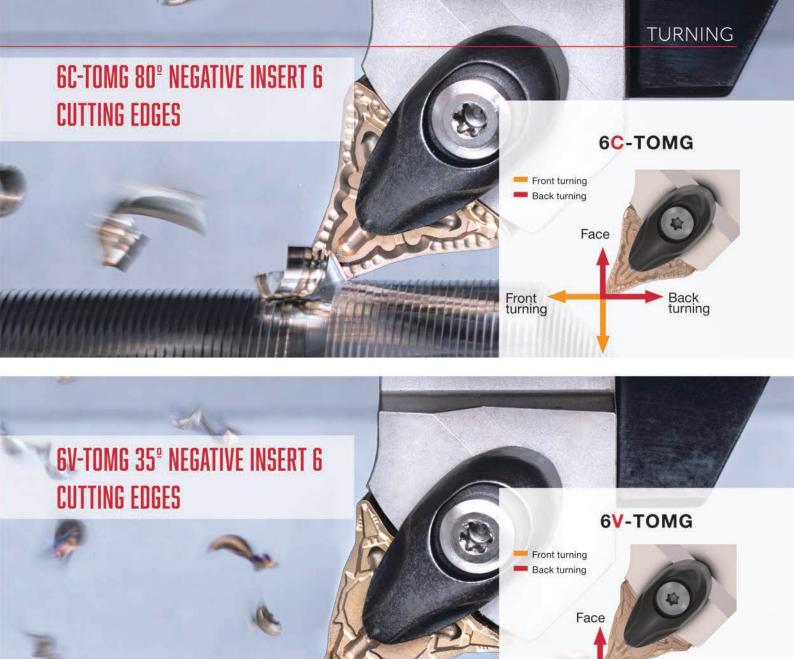




Square shank tool holder with internal coolant supply

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

AddMultiTurn ensures stable clamping, supports high-feed machining, and delivers excellent surface finish with integrated wipers. Its versatile geometries enable multiple processes in one operation, maximizing productivity.



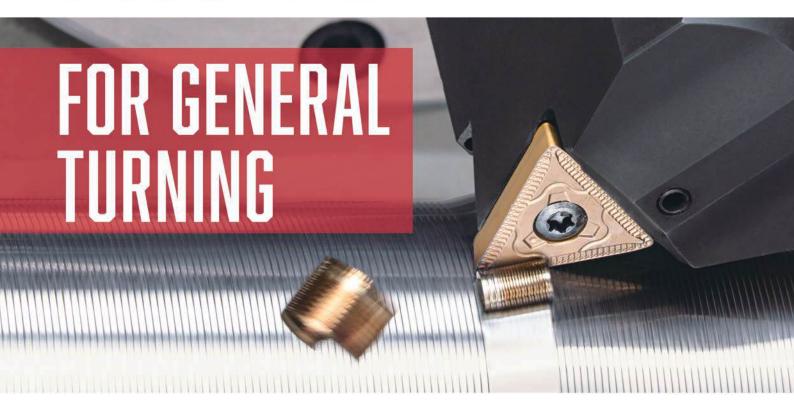


Front turning

Undercutting

Back turning





TCMT type

Single sided, 3 cutting edges Max feed rate: 0.079 ipr

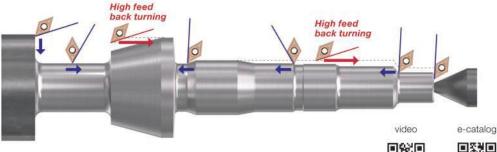




DCMT type

Single sided, 2 cutting edges Max feed rate: 0.047 ipr

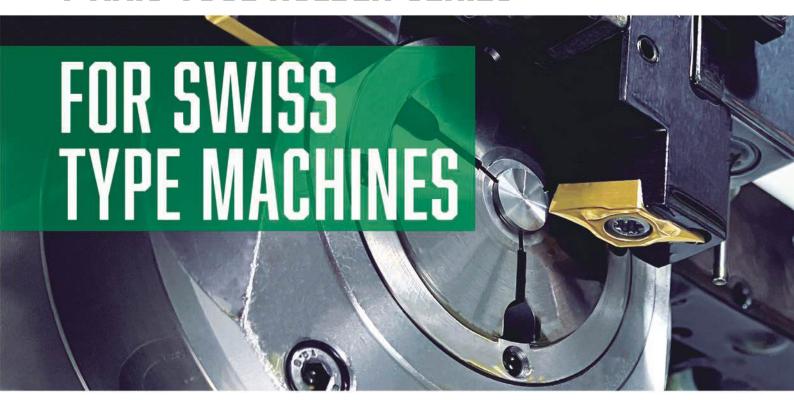








Y-AXIS TOOL HOLDER SERIES

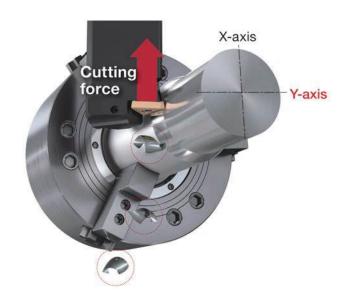


A turning point to increase your productivity

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.

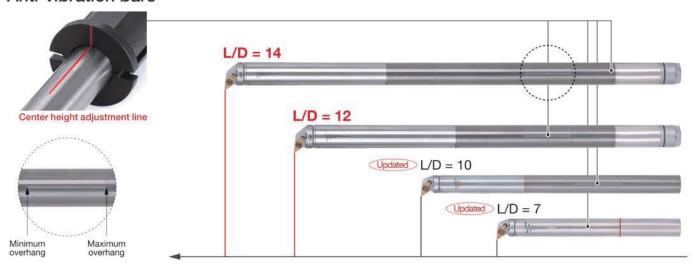
The same tool can be used when turning either from the end of the part towards the chuck or turning away from the chuck to the end of the part.







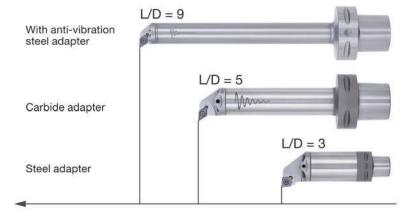
Anti-vibration bars



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 14xD.

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 head changes allow fast tool setup. The unique coupling ensures stable connection and precise repeatability.

Positioning accuracy for the same insert: ±5 µm

Round shank toolholders for back machining

New ER11 collet connection and TinyMini-Turn holders

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

TINYMTURNMULTI								TUNGBÄINI					
ø3 mm	ø4 mm	ø5 mm	ø6 mm	ø7 mm	ø0.315"	ø0.394"	ø0.472"	ø0.551"	ø0.630"	ø0.709"	ø0.787"	ø0.984"	ø1.260"
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.





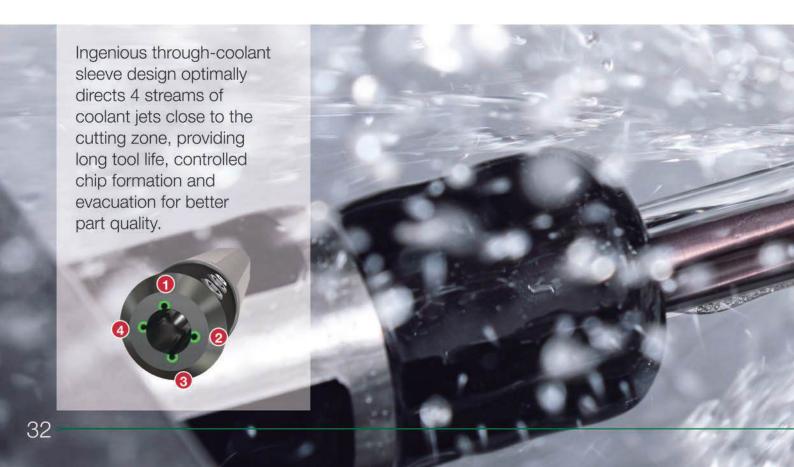
MINIATURE SOLID BORING TOOLS FOR HIGH ACCURACY

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

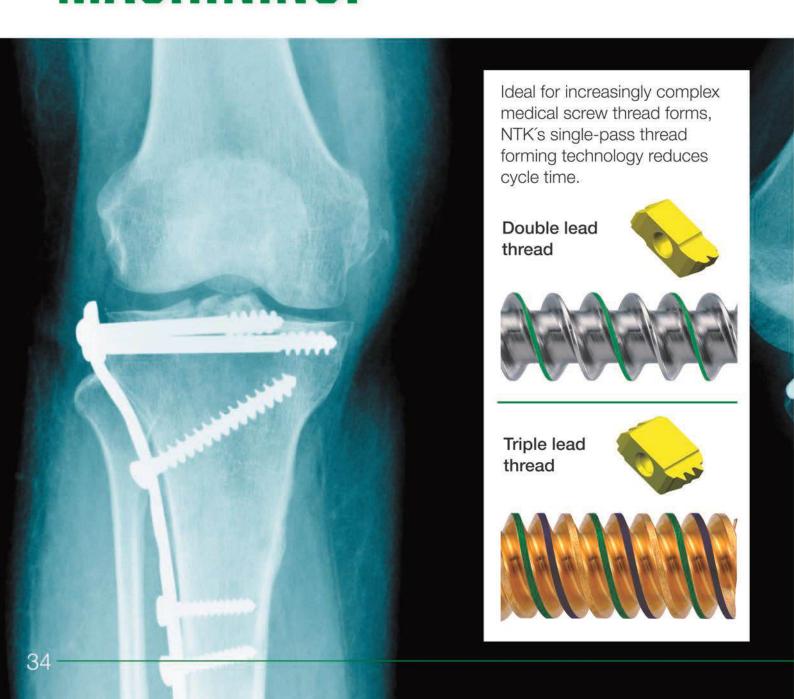


Additionally offered with CBN **BX310** uncoated grade, suitable for bore diameters as small as 2.8 mm.

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

Thread Whirling-ECO

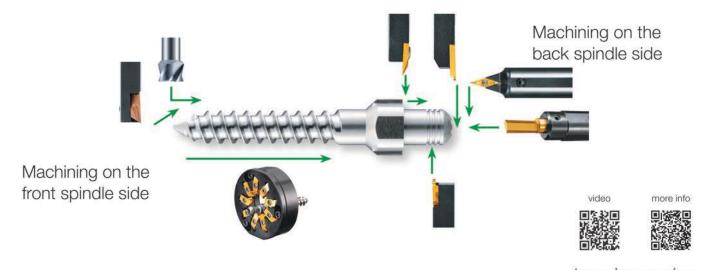








Tooling layout





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	23	值	DB.	D	Less tool pressure, especially good for smal diameter parts. One insert can machine a range of socket sizes
Broach	2	A. C. B.	-	2	You need a tool for each socket size

Hexalobular (6-lobe) socket process comparison

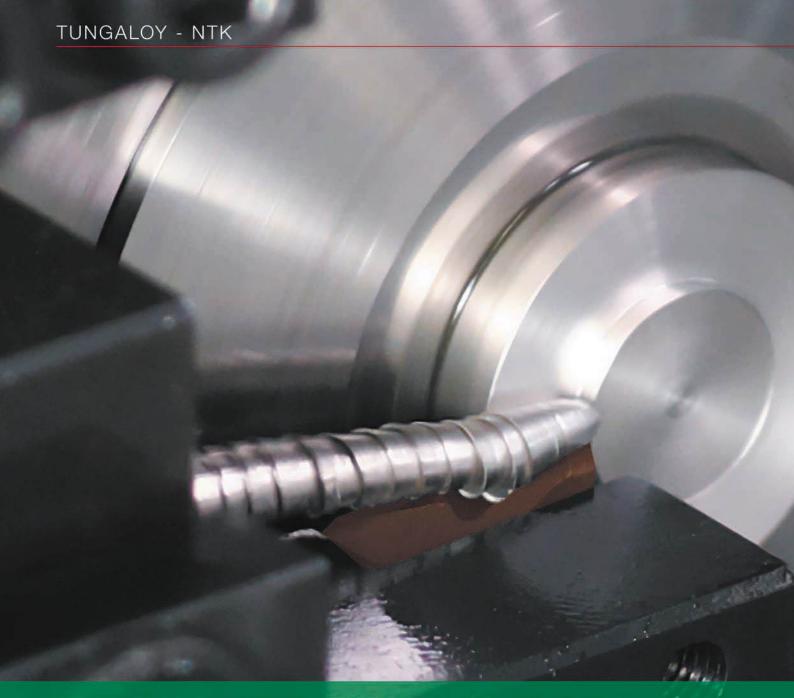
	Tool pressure	Cycle time	Tool Cost	High speed spindle	Program	No need for a high speed spindle
Shaper Duo	D	值	4 3	Not necessary	Simple	
Milling	d	d	172	Necessary	Complicated	Requires high speed spindle



Hexagon socket: AF 1.0 mm - 1.4 mm

For Abutment screws



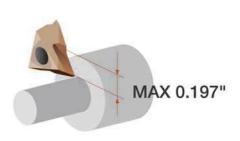


EFFICIENT SINGLE-PASS TURNING WITH DEPTHS OF CUT UP TO 0.197"

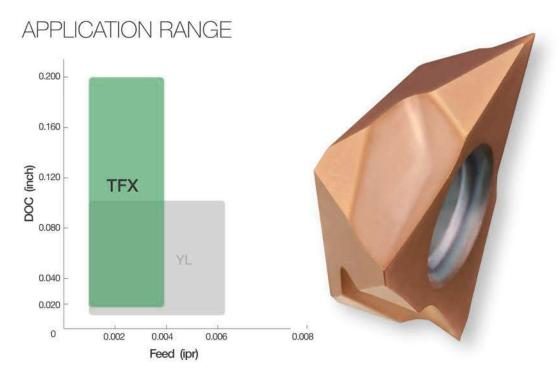
Reduce Cycle Time, Minimize Insert Wear, and Extend Tool Life

The Front Max

Revolutionary Chipbreaker Design Delivers Superior Chip Control and Surface Finish











Specialized for



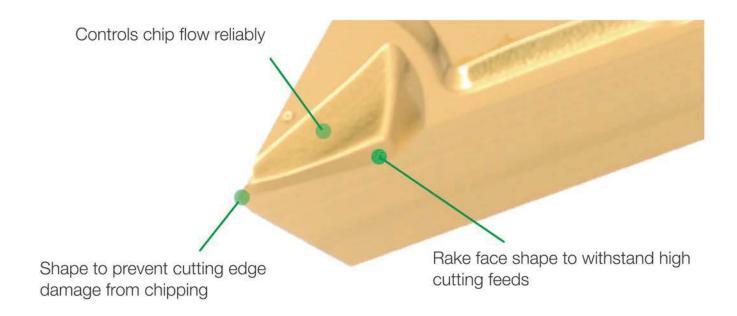
* LFV is a registered trademark of Citizen Watch Co., Ltd.



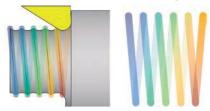
TMV-WP Chipbreaker

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

TMV-WP insert, with built-in wiper, delivers superior surface finish even at high feed rates, contributing to longer tool life by enabling increased feed.



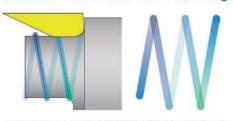
Conventional Tool Path Length



Conventional feed: 0.00197 ipr (0.05 mm/rev)

Tool path length: 1,236" (31.4 m)

TMV-WP Halves Your Tool-Path Length at High Feeds



TMV-WP feed: 0.00394 ipr (0.10 mm/rev) Tool path length: 618" (15.7 m)

Faster cycle times thanks to higher feed rates

Wiper geometry preserves a fine surface finish

Higher feed = shorter tool-path length = longer tool life

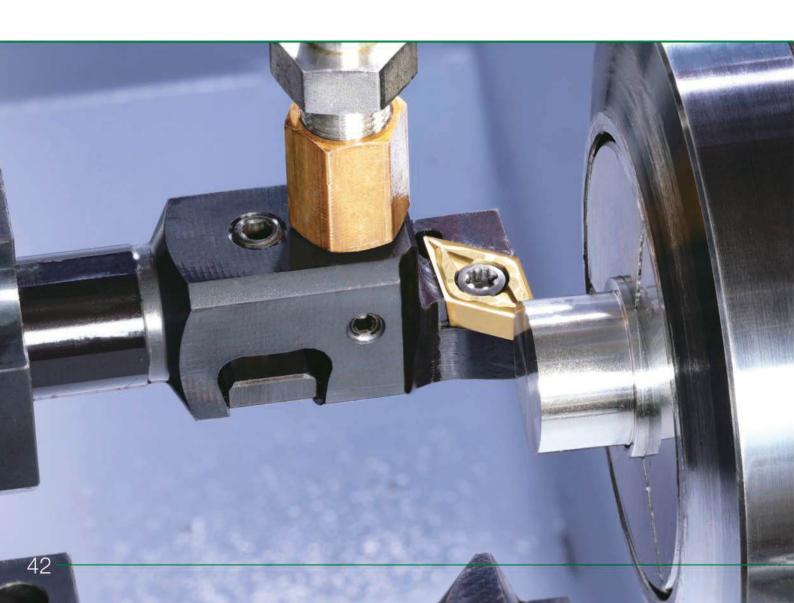
video





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

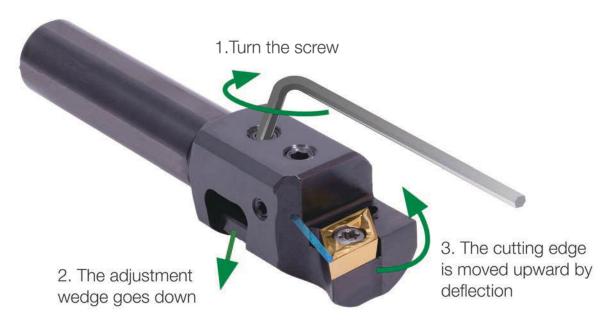
For machines without Y-2 Axis capabilities



DS-ACH-OH toolholder 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



The new toolholder series features an internal oil-through coolant system that delivers fluid directly to the cutting tip, improving chip evacuation and thermal control during turning operations.

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



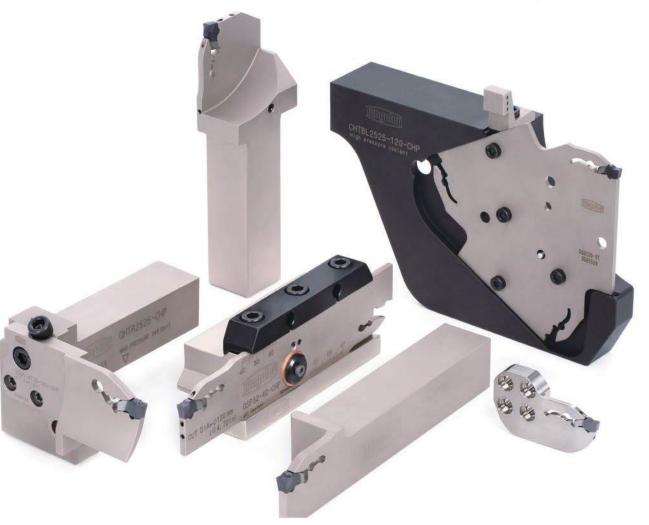
ADDFCUT

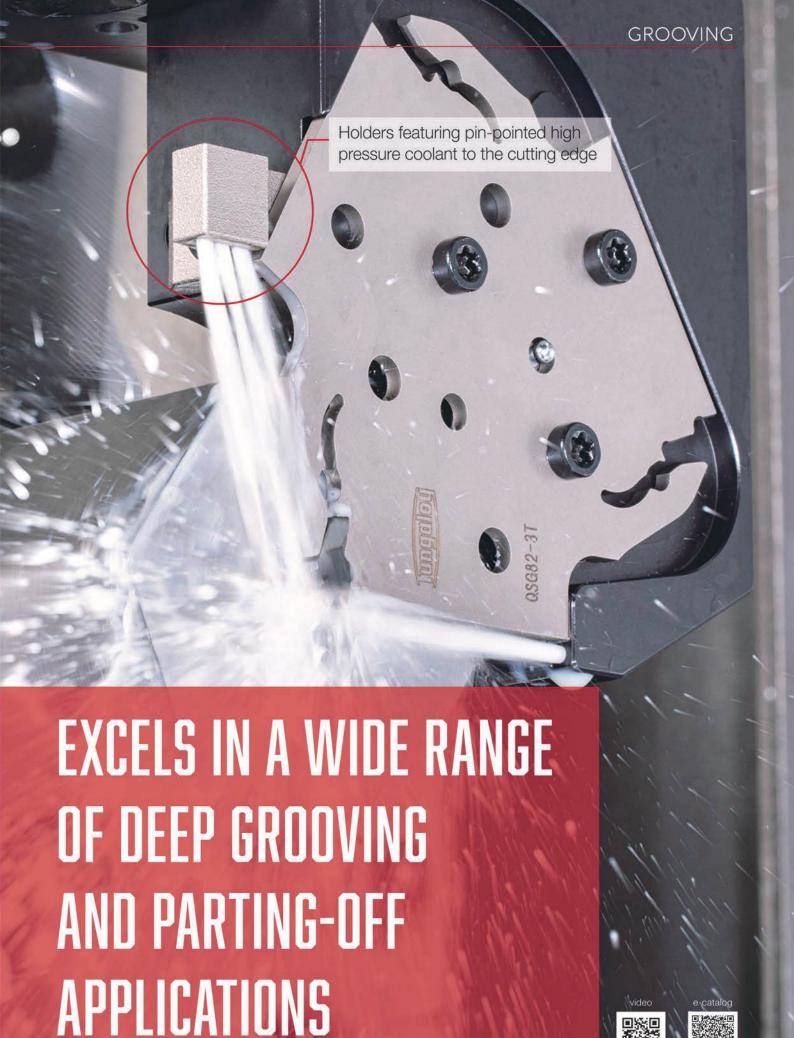
Newly designed insert profile ensures unobstructed chip flow and consistent chip evacuation.

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" **CDX Max** = 1.299"







tungaloy.com/us ntkcuttingtools.com/us

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.

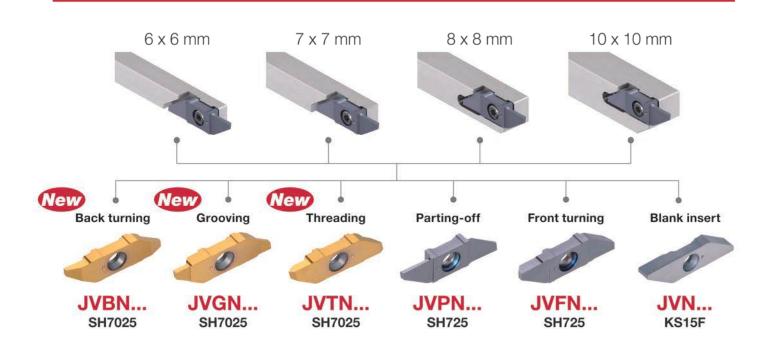
Neutral designed insert can be mounted on either right- or left-handed holder.

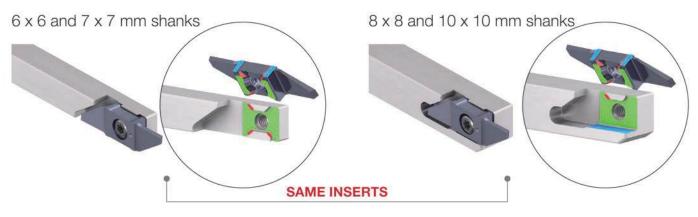




DUOFCUT

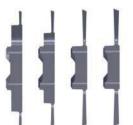
New flexible tool series with unique insert clamping system.
Ideal for machining small parts with 0.472" (12 mm) or smaller diameters.







For turrets with radial tool arrangements



Groove widths available from 0.019" to 0.039" (0.5 to 1 mm)





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)



MTR Threading

video





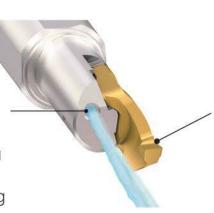


FACEMÖUT

Deep face grooving of up to 10 mm (0.393") DAXN (minimum face grooving diameter) 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.



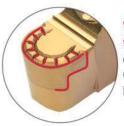




TUNGCUT

New 3D chipbreaker inserts: **CBN-tipped** for profiling hardened steel parts, **PCD** for grooving and groove-turning non-ferrous metals.





WavyJoint technology ensures secure CBN tip bonding.

CBN STR type

Profile insert with 3D chipbreaker that delivers excellent chip control during hard part turning. CW = 3 - 5 mm (0.118'' - 0.197'')





PCD STX type

PCD insert for grooving and turning non-ferrous metals, featuring a 3D chipbreaker and chip guiding design for reliable chip control. Available in right- and left-hand versions.

CW = 2 - 5 mm (0.079" - 0.197")



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 ensures optimal performance.



DGS*S

Lower cutting force and superior sharpness

CW = 0.8 - 3 mm (0.031" - 0.118")



DTR*S

Full radius type **CW** = 2 - 3 mm (0.079" - 0.118")



STV*S

For profiling applications



S-CTIRS-H



QC-JTTER/LS





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 = Ø0.375" - Ø1.000"

Modular type: **HXN02R...**

DCX = Ø0.375" - Ø0.750"



LNMU02-MM

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









FOR MAXIMUM PERFORMANCE

DOFTRI

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 = \emptyset 16 - \emptyset 40 mm



For general purpose chipbreaker APMX = 0.039"



ML New

For low cutting forces chipbreaker APMX = 0.039"





For stainless steel chipbreaker APMX = 0.039"















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





AV*T18

Max. depth of cut: 0.650" (16.5 mm)

Cutter bodies:

Shank type:

EPAV18

 $DC = \emptyset 1.00" - \emptyset 1.50"$ ø25 – ø63 mm

Bore type:

TPAV18

 $DC = \emptyset 2.00" - \emptyset 6.00"$ $\emptyset 40 - \emptyset 160 \, \text{mm}$



AV*T12

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

Cutter bodies:

Shank type:

EPAV12

 $DC = \emptyset 0.625" - \emptyset 1.25"$ ø12 – ø32 mm

Modular type:

HPAV12-M

DC = Ø16 - Ø40 mm

Bore type:

TPAV12

 $DC = \emptyset 1.50" - \emptyset 2.00"$

ø50 – ø63 mm



AVGT06

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

Cutter bodies:

Shank type:

EPAV06

DC =

Ø0.313" - Ø1.00" ø8 – ø32 mm

Modular type:

HPAV06-M/S

DC = Ø10 - Ø16 mm

Bore type:

TPAV06

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



AVMT04

Max. depth of cut: 4 mm

Cutter bodies:

Shank type:

EPAV04

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

e-catalog



TUNGMEISTER

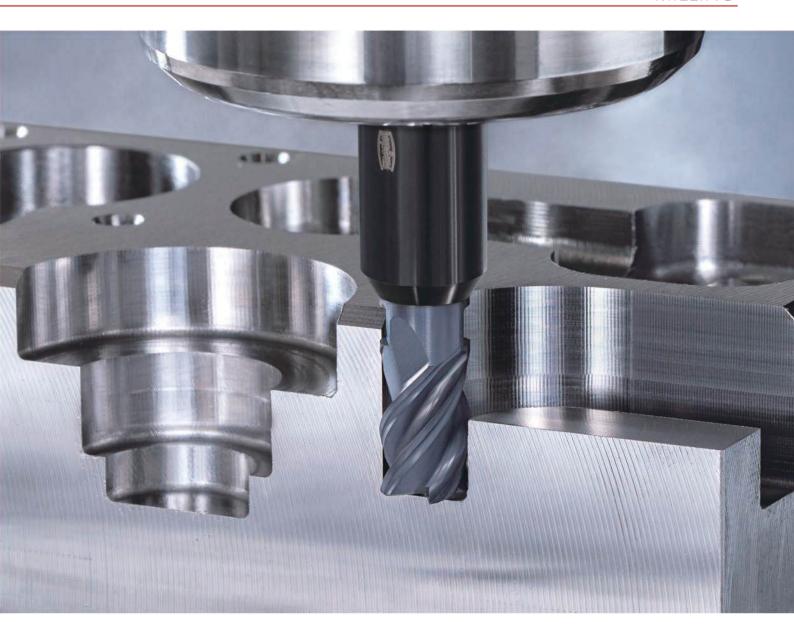


MORE THAN 13,000 POSSIBLE COMBINATIONS

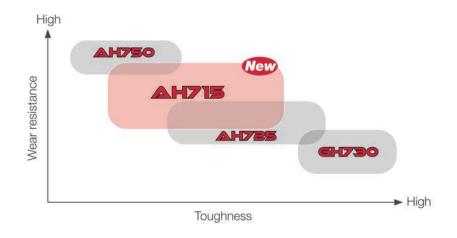
Easy and accurate head-holder coupling provides reduced tool change time and high accuracy of cutting point repeatability

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

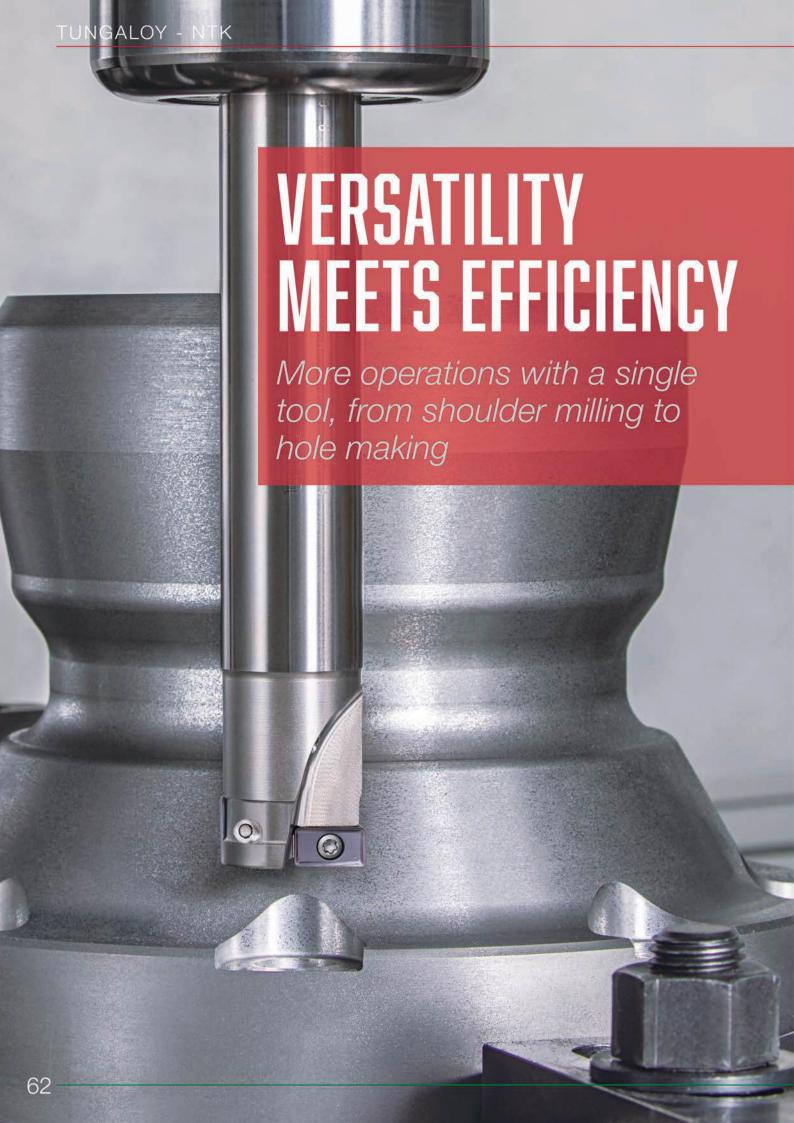
A flexible mix of heads and holders allows for optimal tool assembly in all end milling applications.



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

Application capabilities











Slotting



















Face milling

milling

milling (with R)

(with R)

milling

Pocketing Ramping

Profiling

Plunging

enlarging

Drilling

Cutter bodies:

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

EVLX06/08/10/12/16/19L** (Long type) DC = Ø0.500" - Ø1.500", Ø12 - Ø40 mm

Modular type: **HVLX06/08/10/12/16...** DC = Ø12 - Ø33 mm

LX*U-MM/AM

General-purpose chipbreaker

MM

















Non-ferrous machining chipbreaker

Tool dia. DC	ø0.500" ø12 mm, ø13 mm	ø0.625" ø16 mm, ø17 mm	ø0.787" ø20 mm, ø21 mm	ø1.000" ø25 mm, ø26 mm	ø1.250" ø32 mm, ø33 mm	ø1.500" ø40 mm
APMX (inch) 0.197" Insert size 06		0.276"	0.354"	0.433"	0.571"	0.709"
		08	10	12		



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







UNBEATABLE CERAMIC CUTTER: AS SMALL AS 00.625" FEATURING 3 INDEXABLE INSERTS



JRF CUTTER

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

Step chipbreaker

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







CERAMATIC

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

RCE-H4 (SX9)

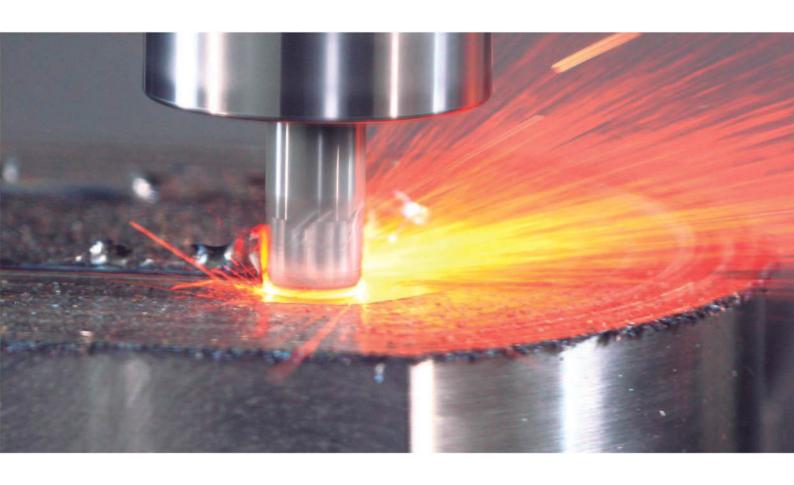
4 Flutes

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

RCE-J6 (SX9)

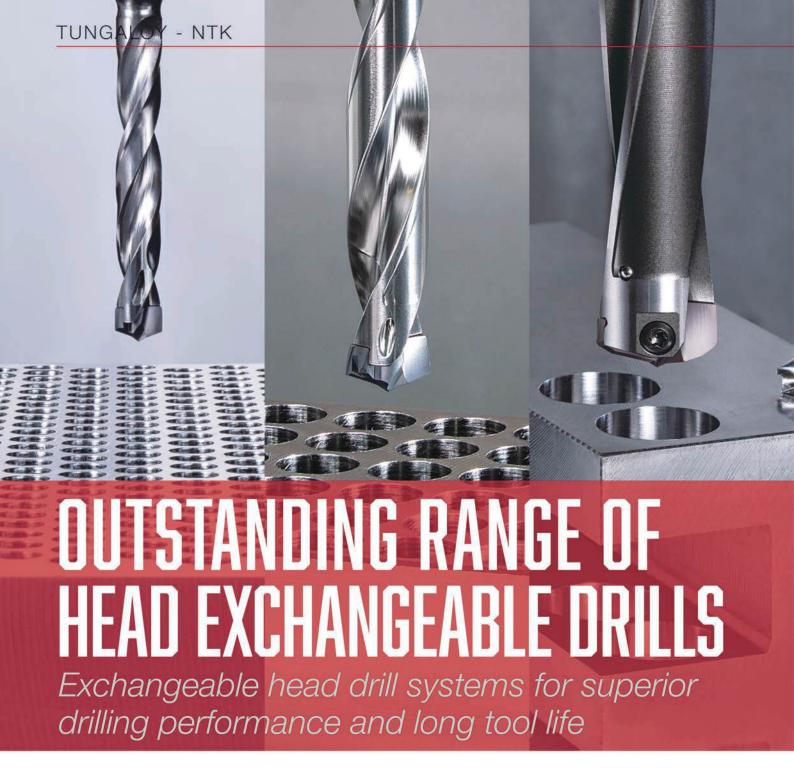
6 Flutes

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



UNLEASHING PRODUCTIVITY AND EFFICIENCY, A REFERENT IN CERAMIC **ENDMILLS**

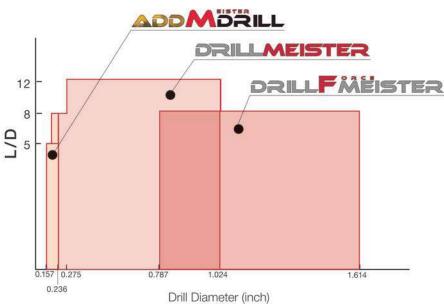




Quick drill tip change for reduced machine downtime.

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.



ADDMÖRILL



DMP

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 self-centering chisel edge



New DMF

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

180° flat edges for counterboring and flat bottoms



e-catalog



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 head with double margin and self-centering edge



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

Drill head with sharp edges for non-ferrous materials



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



DMM New

Drill dia.: ø0.393" - ø0.657" ø10 - ø16.7 mm

General purpose drilling head for Stainless Steel materials



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DRILLFÄËISTER



SMC

Drill dia.: ø0.787" - ø1.299" ø20 - ø33 mm

High precision drilling head with self-centering chisel edge



SMP

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 flatbottom 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





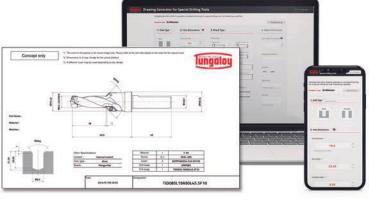
Stable chamfering capability with less chattering due to dedicate insert design for chamfering



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.

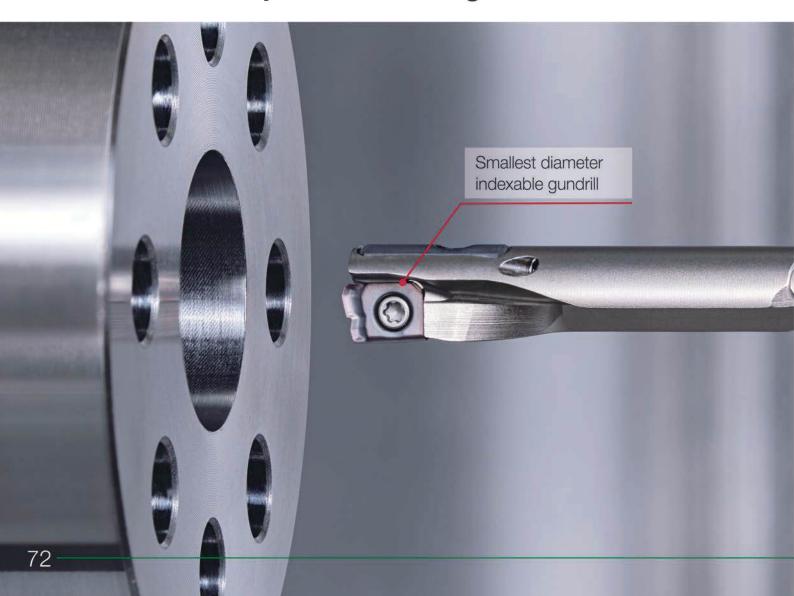




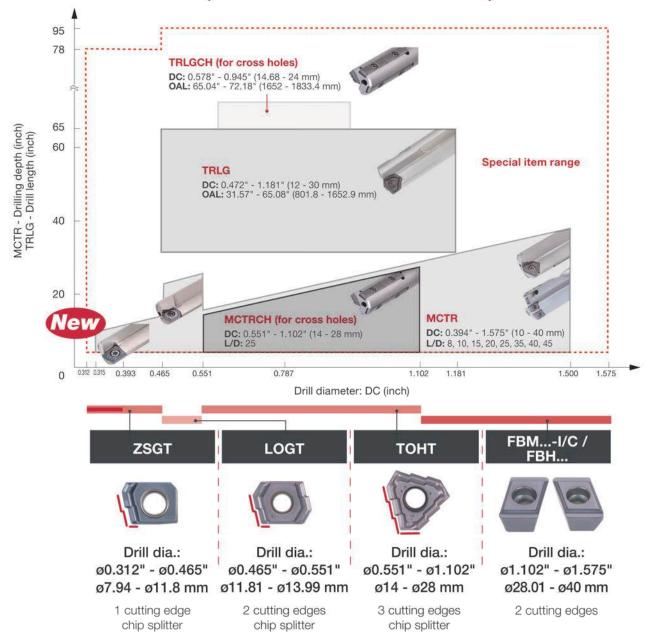
DEEPTÖRILL

THE SMALLEST AND DEEPEST HOLES WITH AN INDEXABLE GUNDRILL

Wide range of indexable deep drilling solutions for your machining needs



Remarkable deep drilling solutions for gundrill machines, lathe and CNC machining centers to cover applications from 0.312" to 1.575" (7.94 mm to 40 mm)



video

e-catalog





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.



Head Geometries Tools





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





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



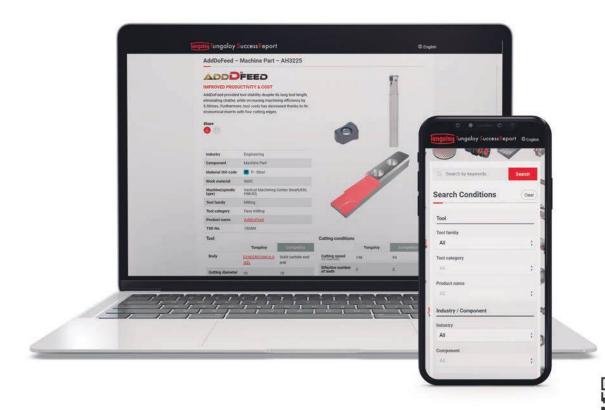


NEW GENERATION REAMER FOR FINISHING HOLE OPERATIONS

YOUR GATEWAY TO TUNGALOY & NTK SUCCESS REPORTS!

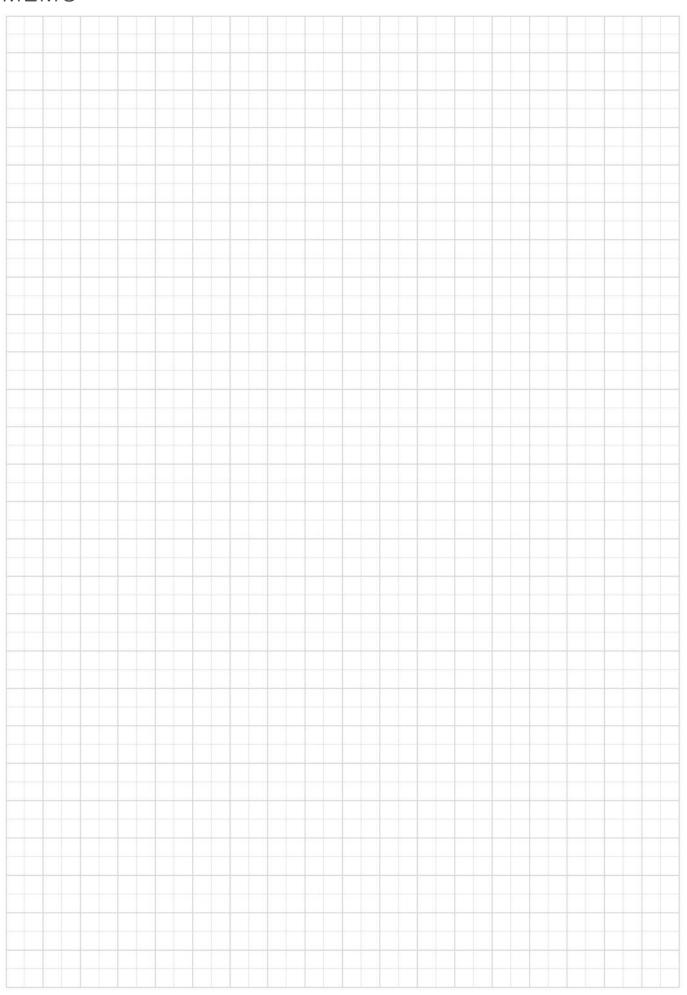
We invite you to visit the updated TSR platform and discover how Tungaloy and NTK's products have successfully met diverse challenges and delivered outstanding results. These reports can provide insights and inspiration for your own applications and projects, offering detailed solutions to succeed in various industrial fields.

Find applications that fit your current needs, elevate your productivity, and solve your production bottlenecks.



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TUNGALOY

Head Office & Production Facilities in Japan

Tungaloy Corporation Head Office

11-1 Yoshima Kogyodanchi lwaki 970-1144 Japan Phone: +81-246-36-8501 Fax: +81-246-36-8542 www.tungaloy.com

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Head Office & Production Facilities in Japan

NTK CUTTING TOOLS Co., Ltd.

Headquarters, Komaki plant 2808 Iwazaki Komaki City, Aichi Prefecture, 485-8510 www.ntkcuttingtools.com/jp-en Phone: +81-568-76-1270

Kamioka plant

1100, Azumo, Kamioka-cho, Hida-shi, Gifu 506-1147 www.ntkcuttingtools.com/jp/kamioka

SALES CHANNELS

Tungaloy-NTK America, Inc.

3726 N. Ventura Drive
Arlington Heights
IL 60004, U.S.A.
Phone: +1-888-554-8394
Fax: +1-888-554-8392
www.tungaloy.com/us
https://www.ntkcuttingtools.com/us/

Tungaloy Canada

432 Elgin St. Unit 3, Brantford Ontario N3S 7P7, Canada Phone: +1-519-758-5779 Fax: +1-519-758-5791 www.tungaloy.com/ca

Tungaloy-NTK de Mexico S.A.

C/ Los Arellano 113
Parque Industrial Siglo XXI
Aguascalientes, AGS
Mexico 20290
Phone: +52-449-929-5410
Fax: +52-449-929-5411
www.tungaloy.com/mx
https://www.ntkcuttingtools.com/mx/

Tungaloy-NTK do Brasil Ltda.

Avd. Independencia N4158
Residencial Flora
13280-000 Vinhedo
São Paulo, Brazil
Phone: +55-19-38262757
Fax: +55-19-38262757
www.tungaloy.com/br
https://www.ntkcuttingtools.com/br/

Tungaloy-NTK Germany GmbH

Katzbergstr. 3a D-40764 Langenfeld, Germany Phone: +49-2173-90420-0 Fax: +49-2173-90420-19 www.tungaloy.com/de https://www.ntkcuttingtools.com/de/

Tungaloy France S.A.S.

Les Fjords 19 avenue de Norvège 91140 Villebon Sur Yvette, France Phone: +33-1-6486-4300 Fax: +33-1-6907-7817 www.tungaloy.com/fr

Tungaloy Italia S.r.I.

Viale Sarca 336/Edificio 13, 20126 Milano – Italy Phone: +39-02-252012-1 Fax: +39-02-252012-65 www.tungaloy.com/it

Tungaloy Czech s.r.o

Turanka 1583/115g, 627 00 Brno, Czech Republic Phone: +420-532 123 391 www.tungaloy.com/cz

Tungaloy Ibérica S.L.

C/Miquel Servet, 43B, Nau 7 Pol. Ind. Bufalvent ES-08243 Manresa (BCN), Spain Phone: +34 93 113 1360 Fax: +34 93 876 2798 www.tungaloy.com/es

Tungaloy Scandinavia AB

Bultgatan 38, 442 40 Kungälv, Sweden Phone: +46-462119200 Fax: +46-462119207 www.tungaloy.com/se

Tungaloy Polska Sp. z o.o.

UI. Irysowa 1, 55-040 Bielany Wrocławskie, Poland Phone: +48 607 907 237 www.tungaloy.com/pl

Tungaloy-NTK U.K. Ltd

Suite 3, Pioneer House, Mill Street, Cannock, WS11 0EF, UK Phone: +44 121 4000 231 Fax: +44 121 270 9694 www.tungaloy.com/uk https://www.ntkcuttingtools.com/uk/

Tungaloy Hungary Kft

Erzsébet királyné útja 125 H-1142 Budapest, Hungary Phone: +36 1 781-6846 Fax: +36 1 781-6866 www.tungaloy.com/hu

Tungaloy Turkey

Serifali Mah.bayraktar Bulvari Kule Sk. No:26 34775 Umraniye / Istanbul / Turkey Phone: +90 216 540 04 67 Fax: +90 216 540 04 87 www.tungaloy.com/tr

Tungaloy Benelux b.v.

Tjalk 70 NL-2411 NZ Bodegraven Netherlands Phone: +31 172 630 420 Fax: +31 172 630 429 www.tungaloy.com/nl

Tungaloy Croatia

Ulica bana Josipa Jelačića 87, 10430 Samobor, Croatia Phone: +385 1 3326 604 Fax: +385 1 3327 683 www.tungaloy.com/hr

Tungaloy FZE (UAE)

Sharjah Airport International Free Zone, Warehouse no. Q3-187, Sharjah, United Arab Emirates. www.tungaloy.com/uae

Tungaloy Cutting Tool (Shanghai) Co.,Ltd.

Room 701, 7th Floor, No.1 Lane 388 Kang'an Road, Pudong New Area, Shanghai, China Phone: +86-21-3632-1880 Fax: +86-21-3621-1918 www.tungaloy.com/cn

NTK Cutting Tools (Shanghai) Co., Ltd

Room 103, Building C, No. 7666 Zhongchun Road, Minhang District, Shanghai, 200131, China www.ntkcuttingtools.com/cn Phone: +86-021-50481018

Tungaloy-NTK Cutting Tools (Thailand) Co.,Ltd.

Interlink tower 4th Fl. 1858/5-7 Bangna-Trad Road km.5 Bangna, Bangna, Bangkok 10260 Thailand

Phone: +66-2-751-5711 Fax: +66-2-751-5715 www.tungaloy.com/th https://www.ntkcuttingtools.com/th/

Tungaloy Cutting Tools (Taiwan) Co.,Ltd.

9F. No.293, Zhongyang Rd, Xinzhuang Dist, New Taipei City, 24251 Taiwan Phone: +886-2-8521-9986 Fax: +886-2-8521-8935

Fax: +886-2-8521-8935 www.tungaloy.com/tw

Tungaloy Singapore (Pte.), Ltd.

62 Ubi Road 1 #06-11 Oxley BizHub 2 Singapore 408734 Phone: +65-6391-1833 Fax: +65-6299-4557 www.tungaloy.com/sg

Tungaloy-NTK Vietnam

Floor 3, Licogi 13 Tower, No.164 Khuat Duy Tien Street, Thanh Xuan Ward, Ha Noi, Vietnam Phone: +84 24 63282086 www.tungaloy.com/vn

Tungaloy India Pvt. Ltd.

One International Center, Unit # 902-A, 9th Floor, Tower 1, Senapati Bapat Marg, Elphinstone Road (West), Mumbai -400013, India Phone: +91-22-6124-8804 Fax: +91-22-6124-8899 www.tungaloy.com/in

Tungaloy Korea Co., Ltd

#1312, Byucksan Digital Valley 5-cha Beotkkot-ro 244, Geumcheon-gu 153-788 Seoul, Korea Phone: +82-2-2621-6161 Fax: +82-2-6393-8952 www.tungaloy.com/kr

Tungaloy Malaysia Sdn Bhd

50 K-2, Kelana Mall, Jalan SS6/14, Kelana Jaya, 47301 Petaling Jaya, Selangor Darul Ehsan Malaysia Phone: +603-7805-3222

Phone: +603-7805-3222 Fax: +603-7804-8563 www.tungaloy.com/my

Tungaloy Australia Pty Ltd

Unit 68 1470 Ferntree Gully Road Knoxfield 3180 Victoria, Australia Phone: +61-3-9755-8147 Fax: +61-3-9755-6070 www.tungaloy.com/au

PT. Tungaloy Indonesia

Ruko Blok AA.10 No3&5, Grand Wisata, Lambangjaya, Tambun Selatan, Bekasi, 17510 Indonesia Phone: +62-21-8261-5808 Fax: +62-21-8261-5809 www.tungalov.com/id



