

DEEPLY ROOTED IN EVERY MATERIAL
AND INDUSTRY

CVD - PVD - CBN - CERAMICS - PCD

tungaloy.com
ntkcuttingtools.com

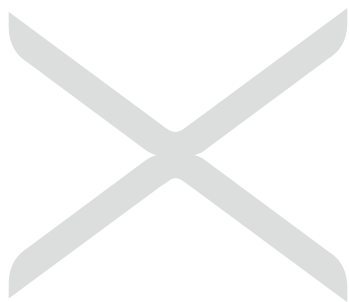


Welcome to the Powerhouse of Precision: Tungaloy + NTK Highlights!

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

PD1/PD2

DX160 / DX200

CERAMICS grades

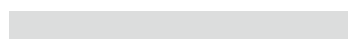
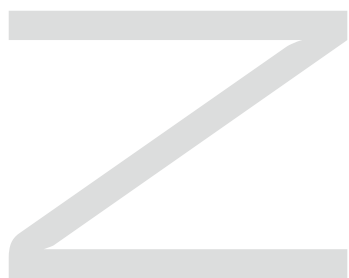
JX1/JX3

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

GROOVING - 44

AddForceCut
AddInternalCut
DuoForceCut
TinyInternalCut
FaceMiniCut
TungCut/TungShortCut

MILLING - 56

HighFeed Milling
TungForce-Rec
TungMeister
DoMultiRec
TungTap
JRF Cutter
Ceramic

HOLE MAKING - 70

Head Exchangeable drills
Modular DrillMeister series
DeepTriDrill
ReamMeister



CVD GRADES

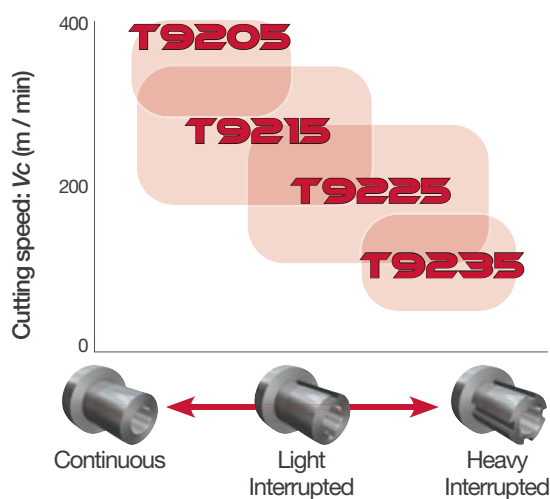


T9200 P M K

CVD grade series with outstanding productivity, especially for steel turning

Nearly unbreakable CVD series for improved machining efficiency

APPLICATION AREA **P**





T6200 **M**

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

Complete grade line up for stainless steel turning

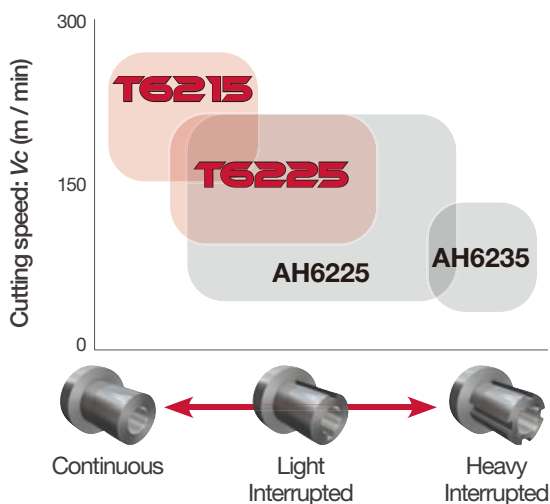


T500 **K**

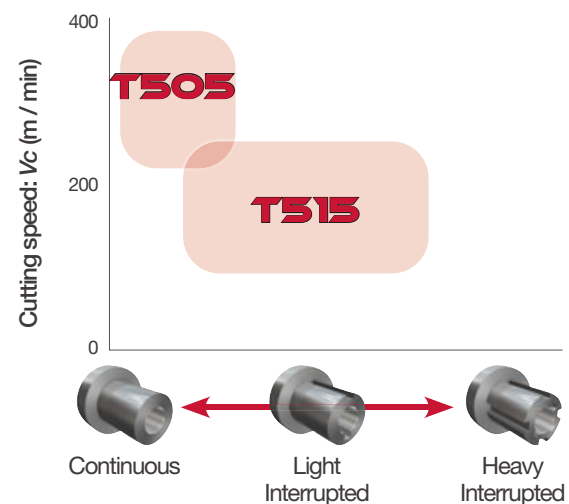
Most optimal CVD grade **series** for high speed machining of cast iron

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

APPLICATION AREA **M**



APPLICATION AREA **K**



PVD GRADES

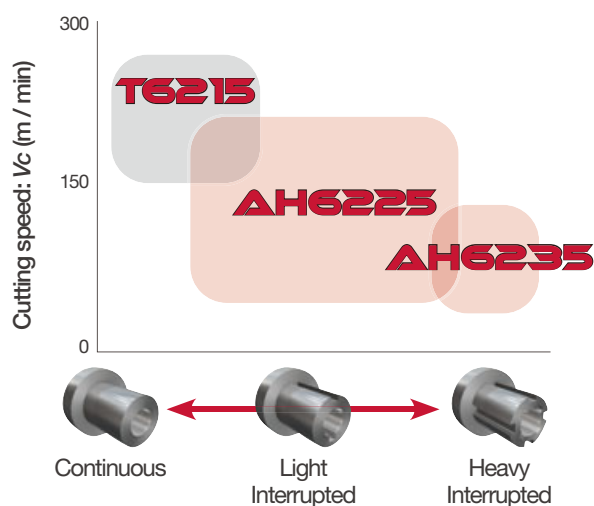


AH6200 **M**

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

Complete grade lineup for stainless steel turning

APPLICATION AREA **M**



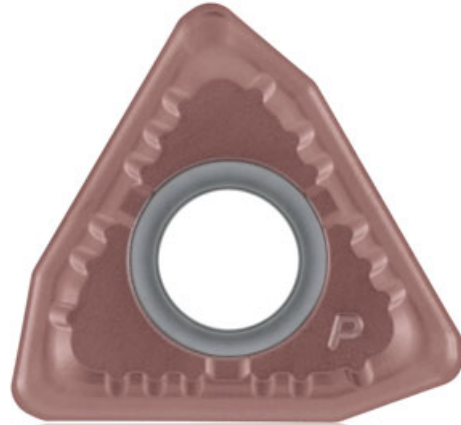


DMC drilling head for DrillMeister

ΔH9130

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.



Grades available for TungSix-Drill and TungDrillTwisted

ΔH7020

P K

ΔH7030

P M

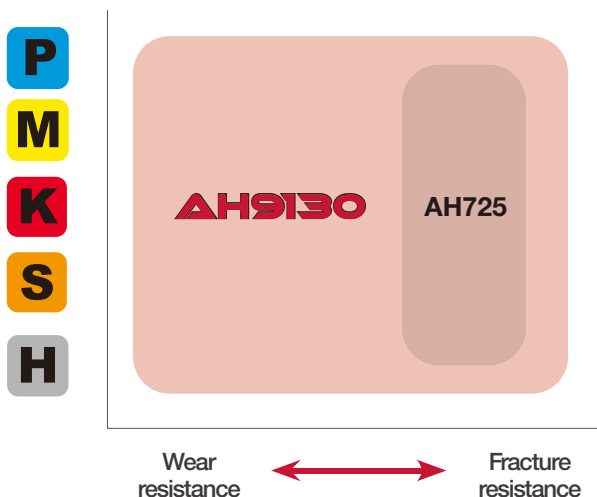
Reliable PVD Grades for High-Efficiency and Stable Drilling

K S

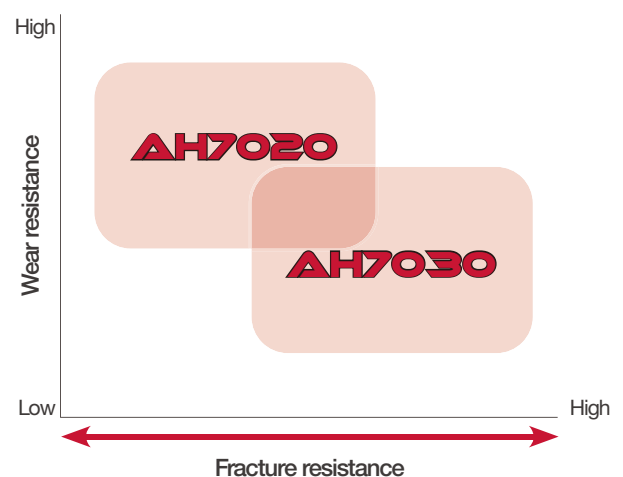
H

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



PVD GRADES MINIATURE

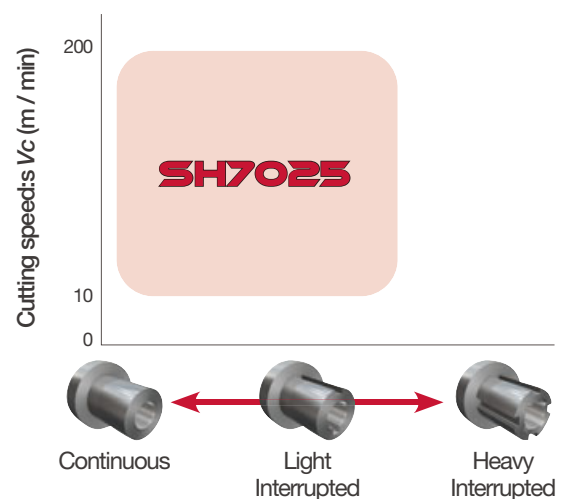


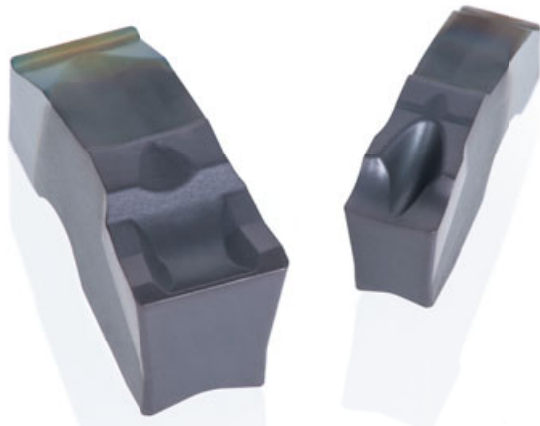
SH7025 **P** **M**

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

Superior surface quality and process security in small part machining

APPLICATION AREA





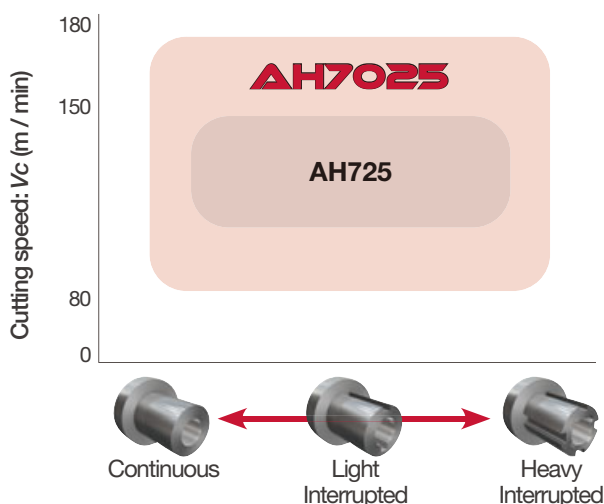
QGM / QGS inserts for AddForceCut

AH7025 P M K S

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 AlTiN PVD coating with high Al content.

APPLICATION AREA

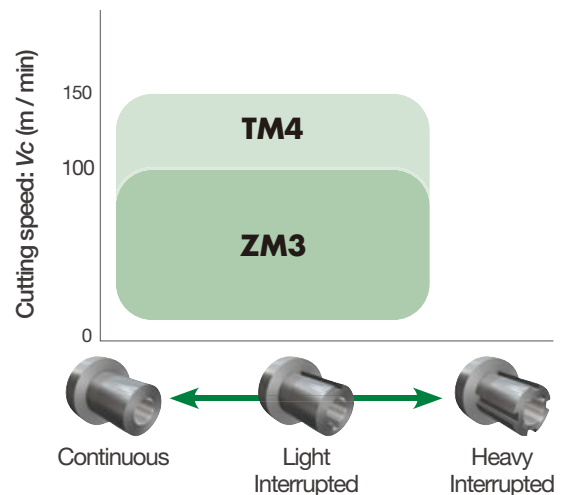


ZM3/TM4 P M N

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

Featuring both excellent adhesion and wear resistance

APPLICATION AREA



PVD GRADES MINIATURE

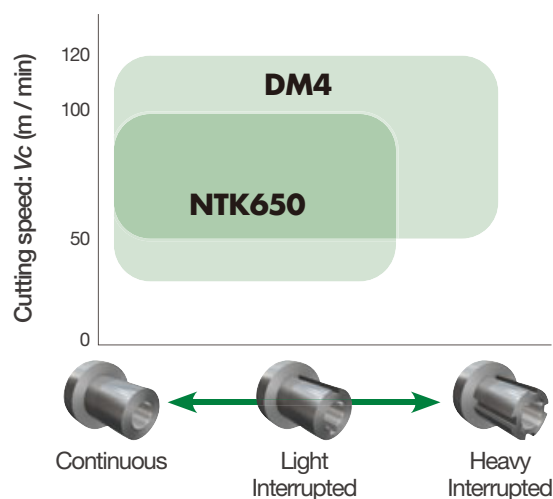


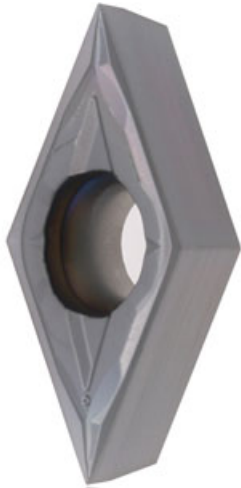
NTK650 **P M S**

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

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

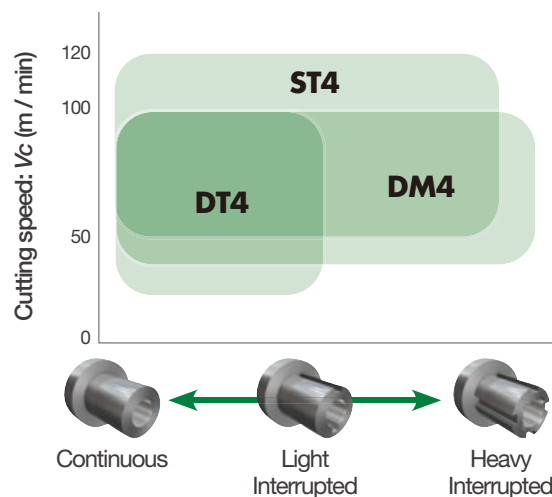


DM4/DT4 **M S**

High productive PVD grades for heat resistant alloys and titanium alloys

Featuring an unparalleled stable machining even during high temperature machining conditions

APPLICATION AREA **M**



CBN GRADES

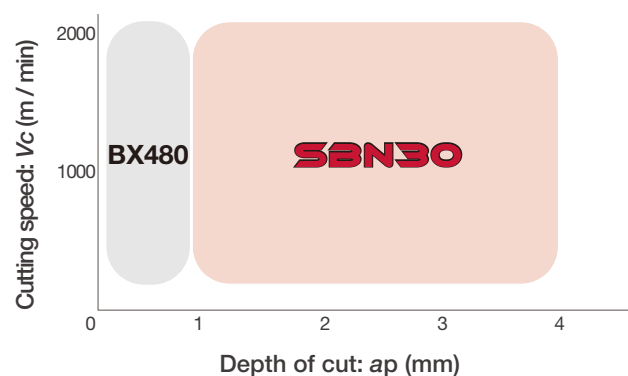


SBN30 K

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.

APPLICATION AREA **K**





BXA10 H

CBN Grade for continuous hardened steel turning

Incredible reliability with excellent wear resistance

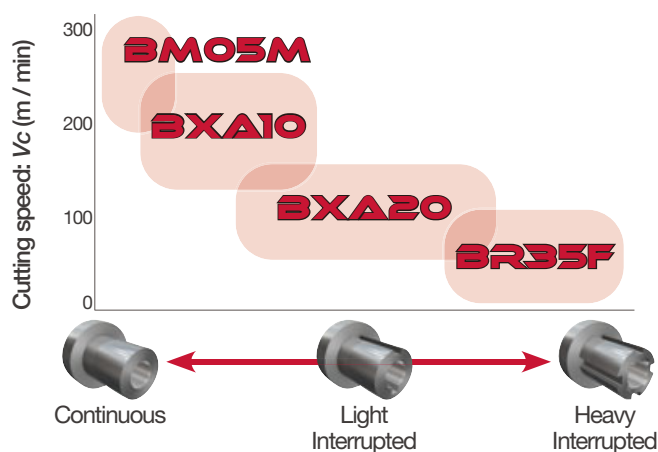


BXA20 H

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

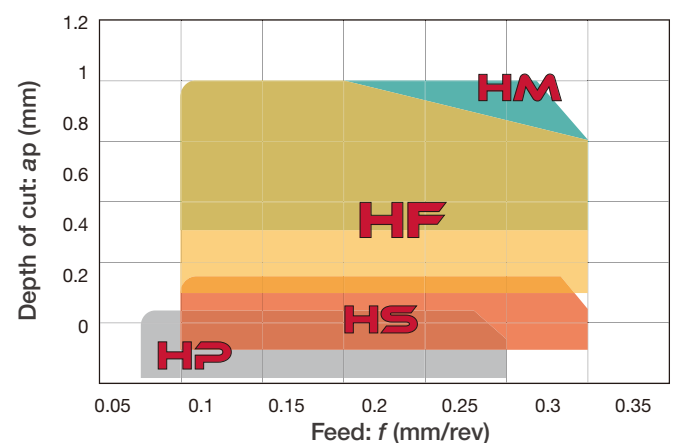
Enables stable machining at low to medium cutting speed

APPLICATION AREA H



HARDBREAKER SERIES

CBN chipbreaker series for hardened steel



PCD GRADES

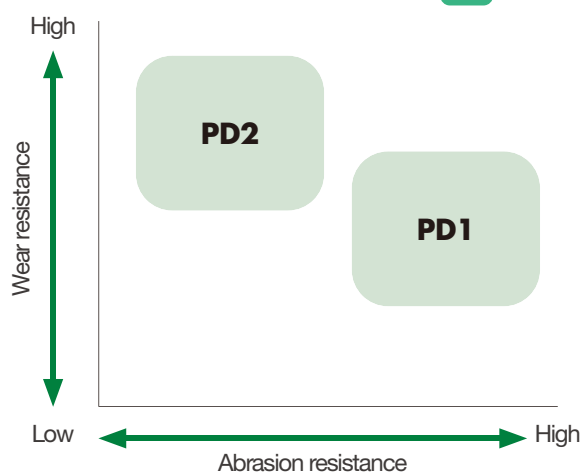


PD1/ PD2 **N**

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

APPLICATION AREA **N**





DX160 N

An extremely wear-resistant PCD grade, suitable for finishing aluminum and copper alloys

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

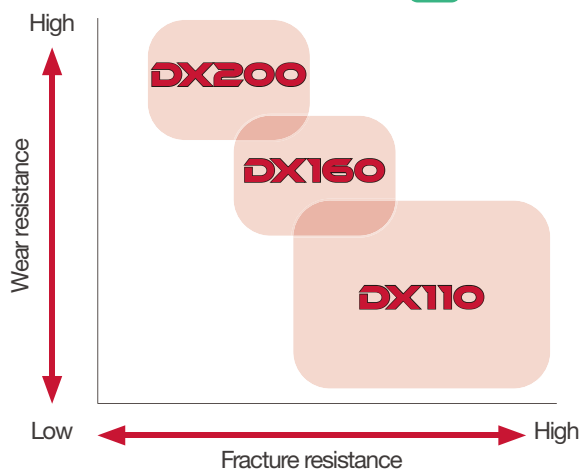


DX200 N

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

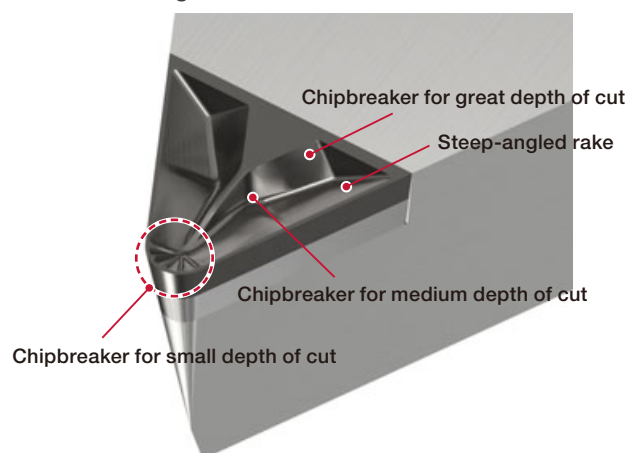
Featuring a sharp cutting edge that provides excellent surface finish

APPLICATION AREA N



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



CERAMICS GRADES



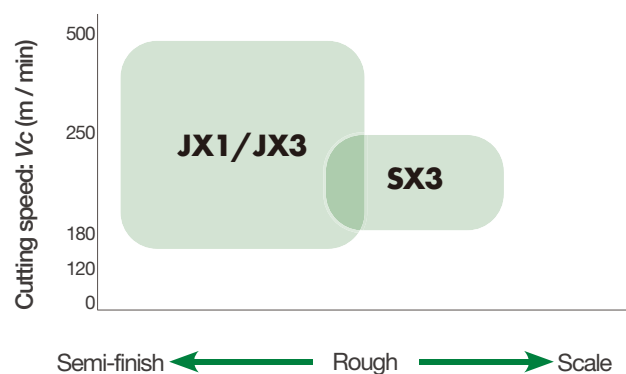
JX1/JX3 **S**

BIDE MICS 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

APPLICATION AREA **S**

TURNING - WET

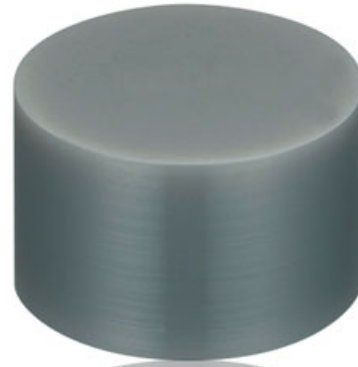




SX3 S

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



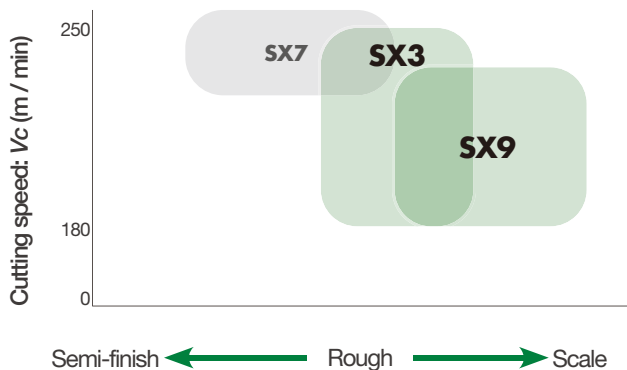
SX9 S

Excellent Ceramic grade featuring **superb notch and flank wear resistant**

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

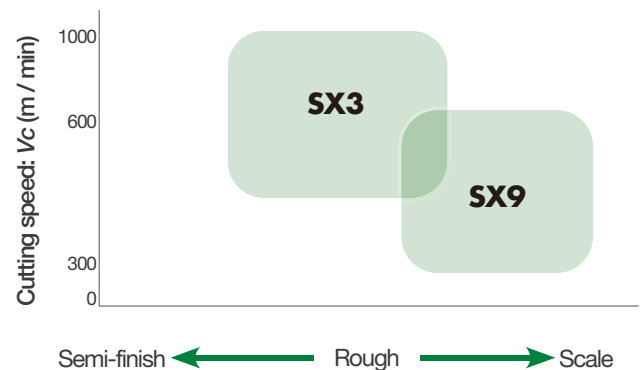
APPLICATION AREA S

TURNING - WET

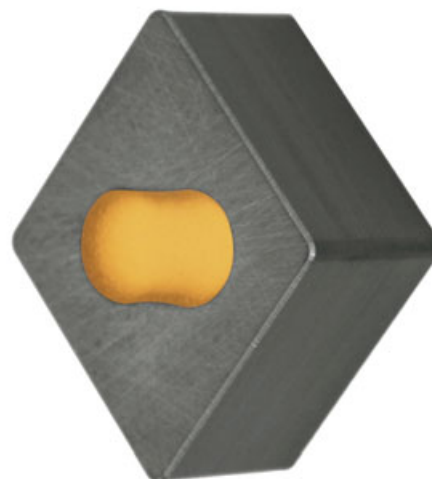


APPLICATION AREA S

MILLING - DRY



CERAMICS GRADES

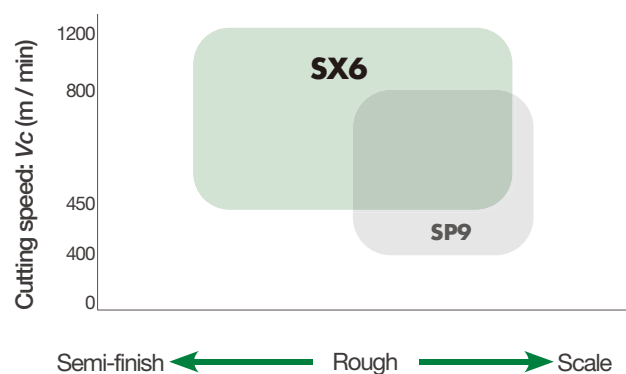


SX6 **K**

First recommendation for **rough turning and milling cast iron**

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

APPLICATION AREA **K** Cast Iron
Ductile Cast Iron





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

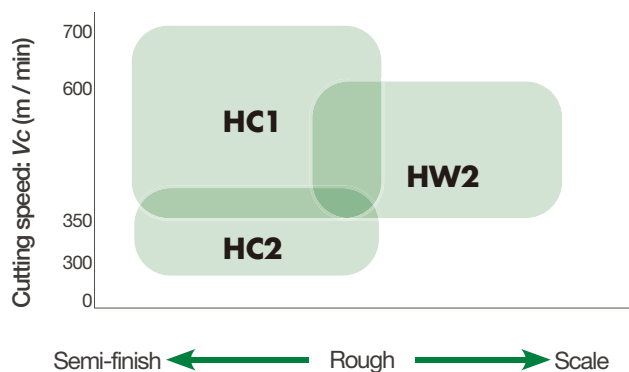


HC2 **K**

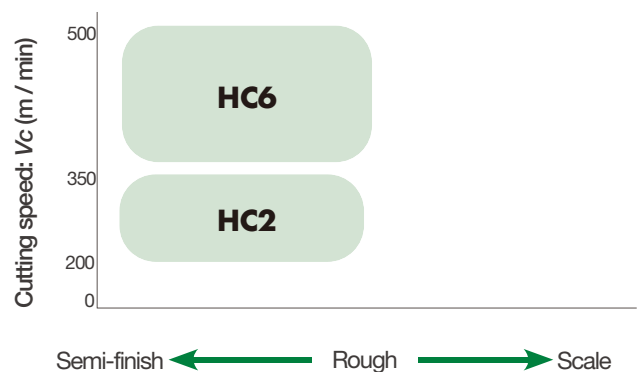
Multi-purpose grade capable of machining gray cast iron and ductile cast iron

Well balanced grade between wear resistance and chipping resistance

APPLICATION AREA **K** Cast Iron DRY



APPLICATION AREA **K** Ductile Cast Iron WET



ADD^{ULTI}MTURN

THE ULTIMATE TOOL FOR MULTIPLICITY

New

PSC Tool holder



New

*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.

6C-TOMG 80° NEGATIVE INSERT 6 CUTTING EDGES



6V-TOMG 35° NEGATIVE INSERT 6 CUTTING EDGES



3C-TCMT 86° POSITIVE INSERT 3 CUTTING EDGES



video

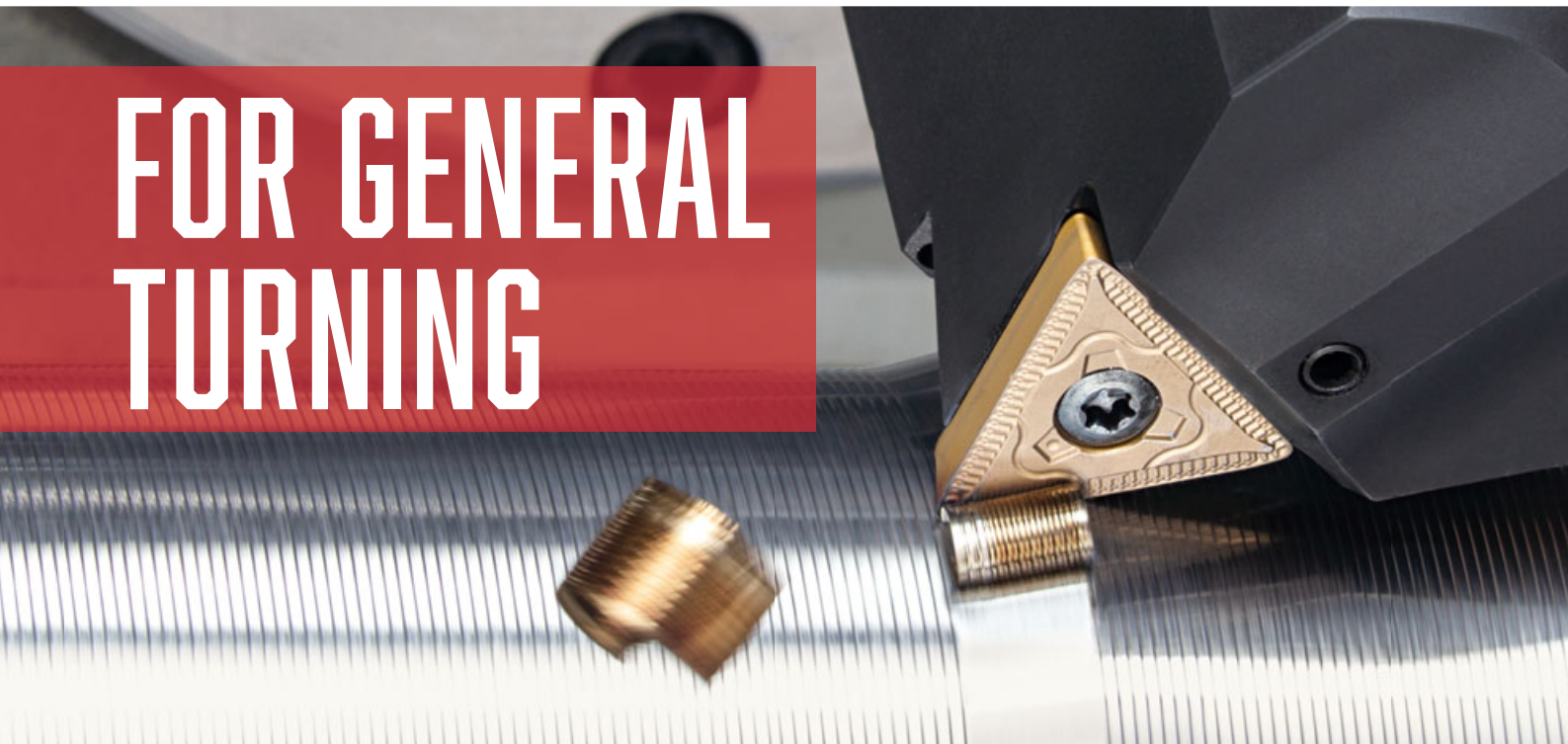


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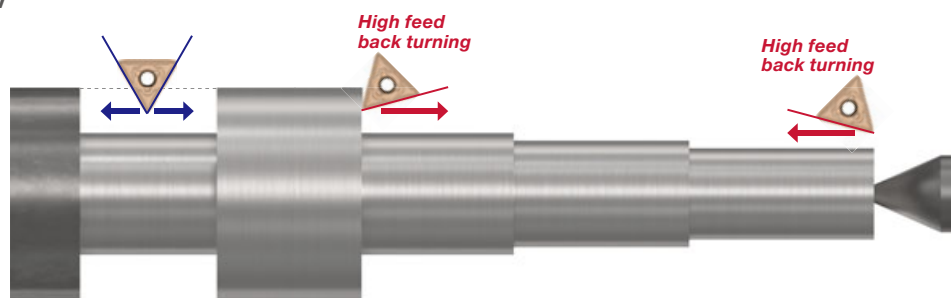
ADDY^{AXIS}TURN

**FOR GENERAL
TURNING**



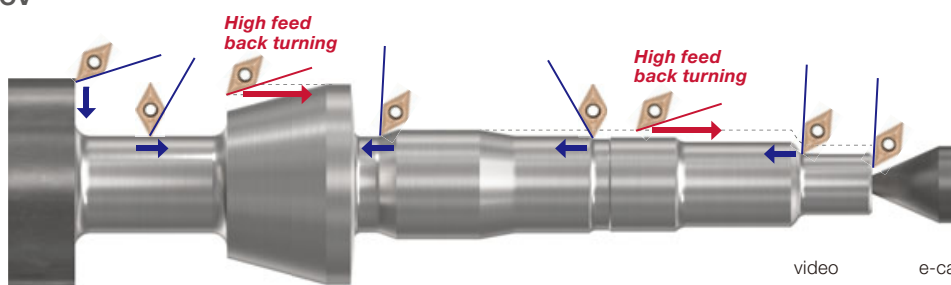
TCMT type

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



video



e-catalog



Y-AXIS TOOL HOLDER SERIES

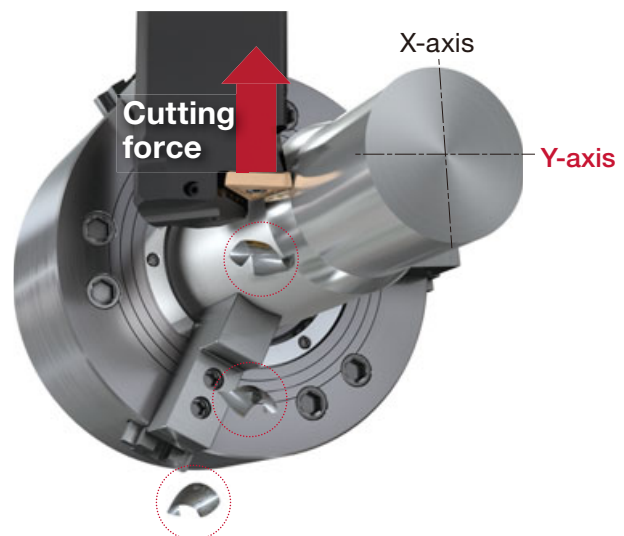
FOR SWISS TYPE MACHINES

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.

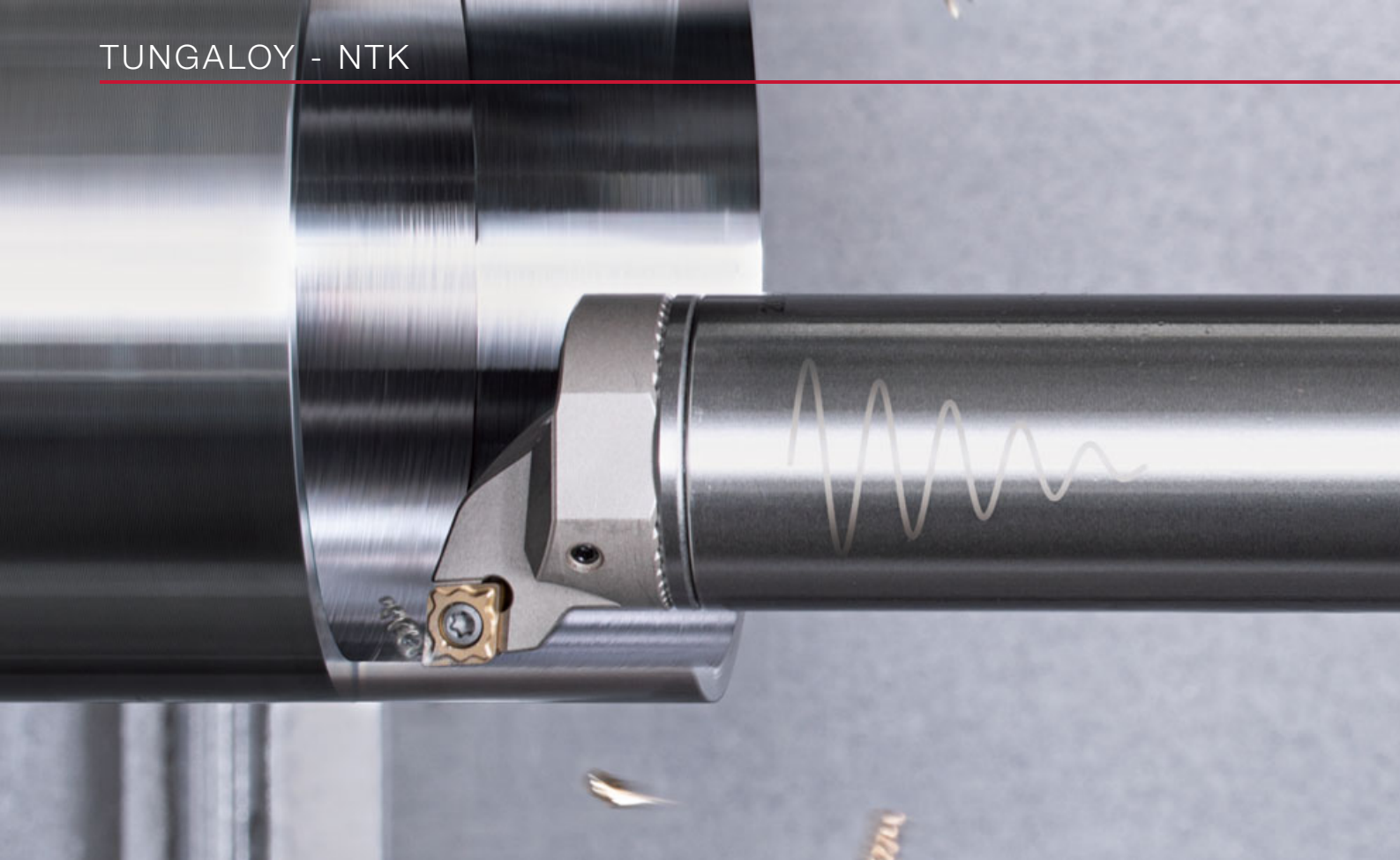
By simply rotating the tool along the axis, the cutting edge angle can be set to an optimum angle that enables the most effective entry into the cut.

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.

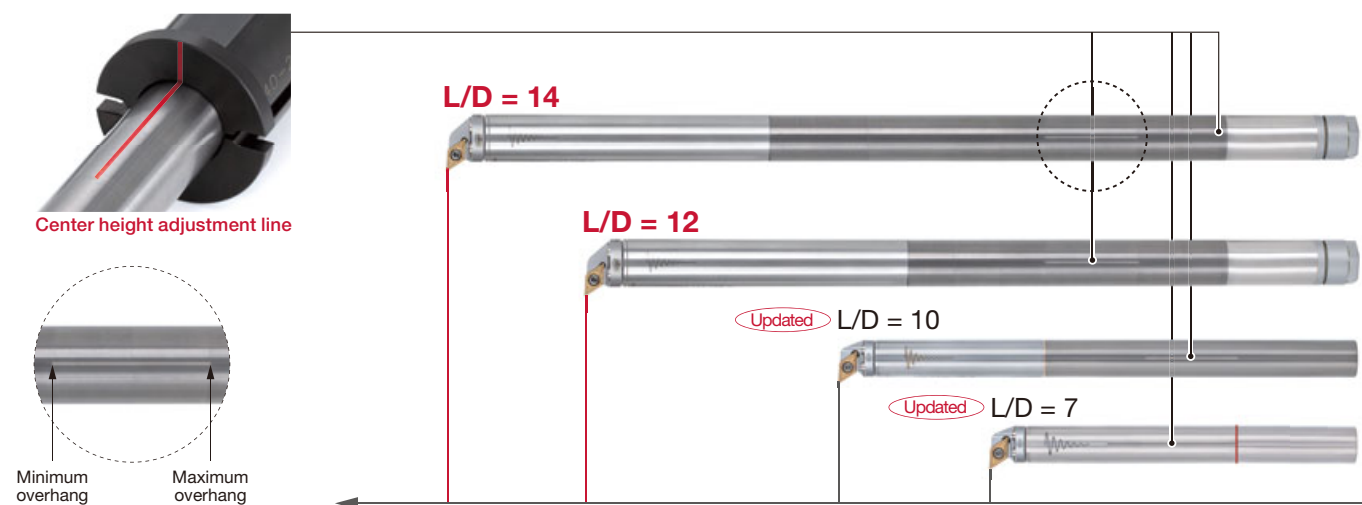


more info





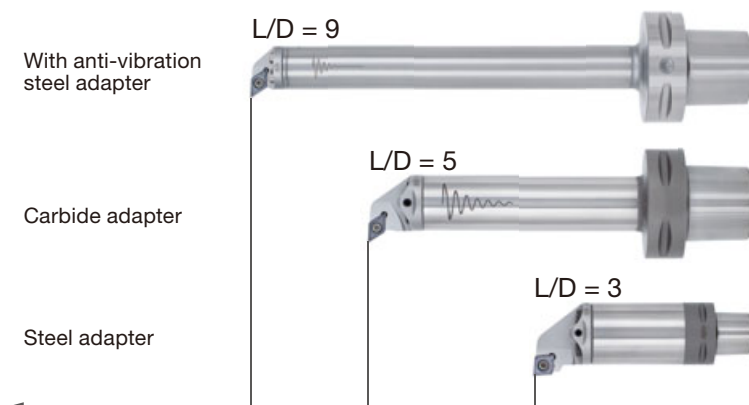
Anti-vibration bars



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 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

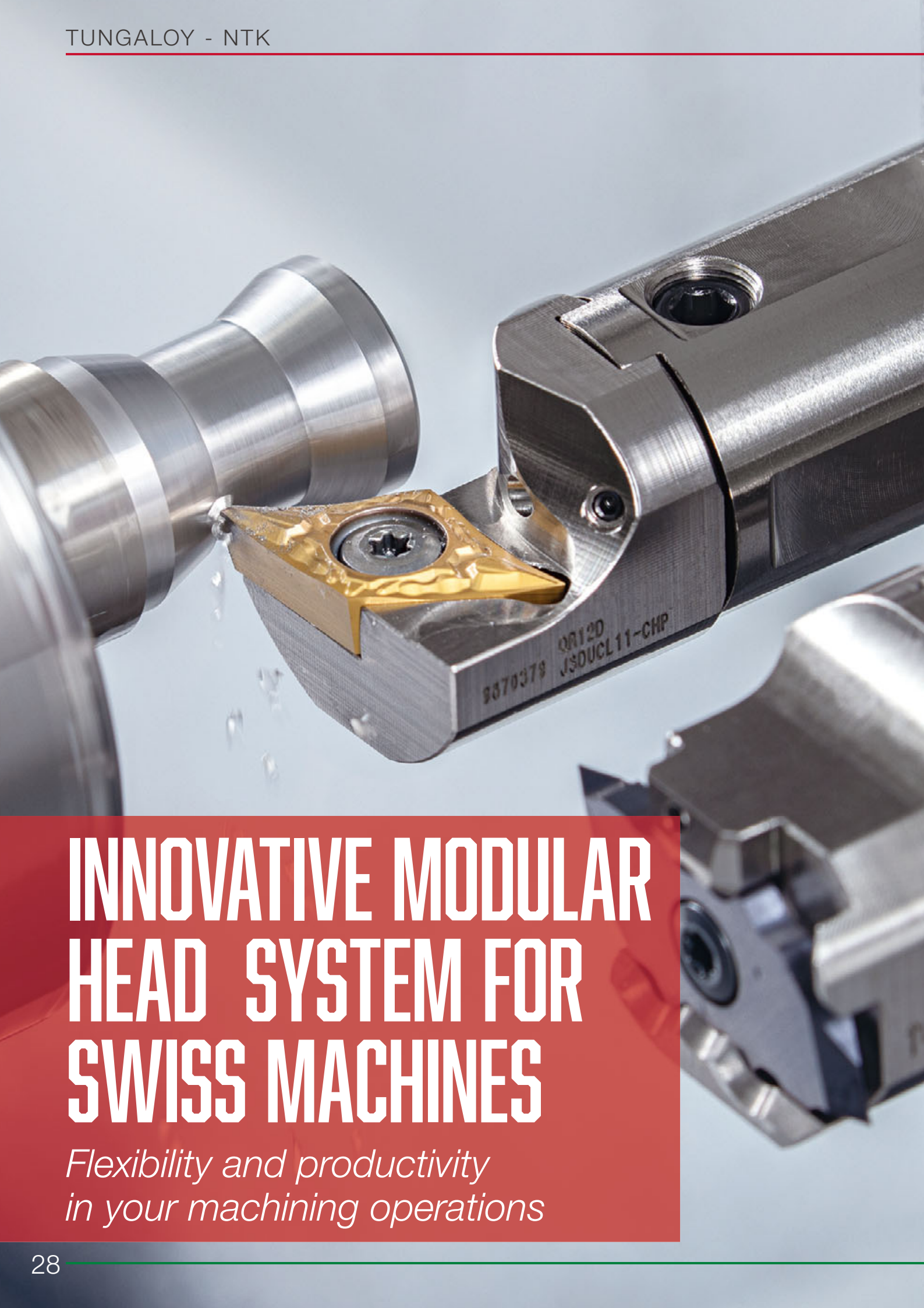


AddInternalCut, TungCut, and AddForceCut heads



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INNOVATIVE MODULAR HEAD SYSTEM FOR SWISS MACHINES

*Flexibility and productivity
in your machining operations*

MODUM^{INI}TURN

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



Quick head changes allow fast tool set-up. The unique coupling ensures stable connection and precise repeatability.

Positioning accuracy for the same insert: $\pm 5 \mu\text{m}$

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.

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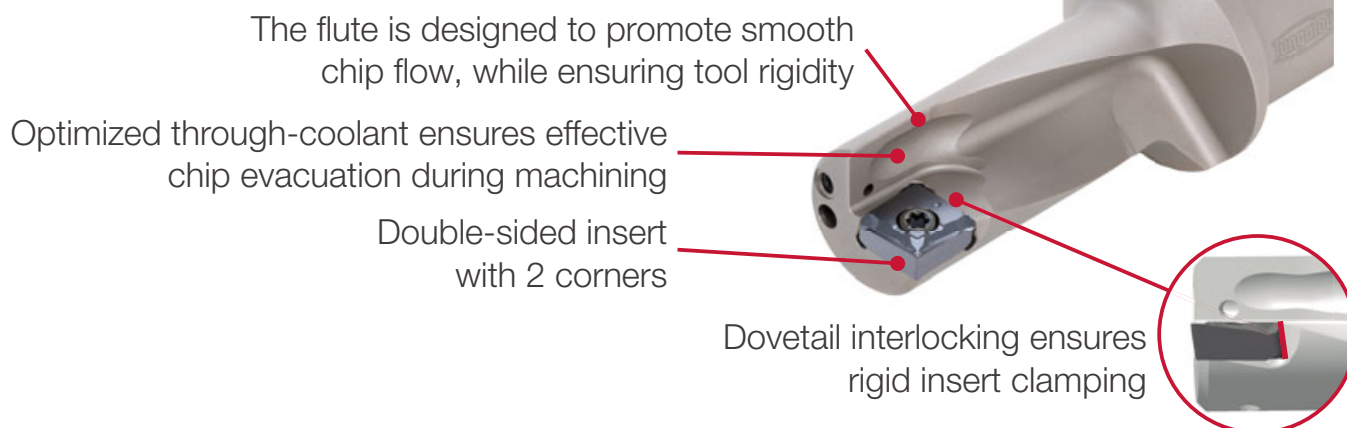
MULTIFUNCTIONAL TOOLS FOR DRILLING AND TURNING

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

Minimum bore diameter: DMIN (mm)

TINY ^{INI} M ^{TURN} MULTI							TUNG ^{ORE} B ^{MINI}						
ø3	ø4	ø5	ø6	ø7	ø8	ø10	ø12	ø14	ø16	ø18	ø20	ø25	ø32
Solid carbide boring bar							Indexable						

TUNG^{ORE}B^{MINI}



TINY^{INI}M^{TURN}MULTI

TBMFR07...

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

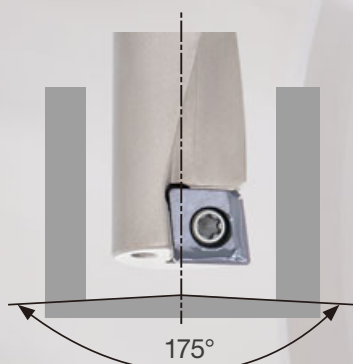
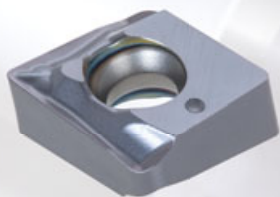


Three strategically positioned coolant grooves ensure effective chip evacuation and control.



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

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TINY^{INI}MTURN

MINIATURE SOLID BORING TOOLS FOR HIGH ACCURACY

Efficiency and profitability to your small boring operations as small as $\varnothing 0.6$ 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.

Ingenious through-coolant sleeve design optimally directs 4 streams of coolant jets close to the cutting zone, providing long tool life, controlled chips formation and evacuation for better part quality.



*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



video



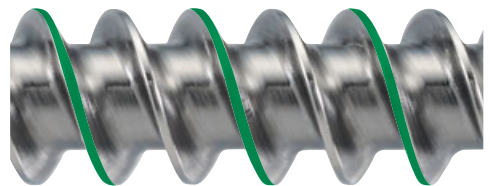
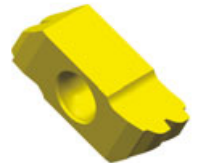
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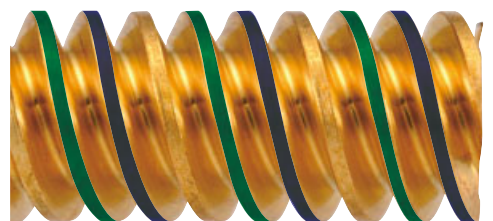
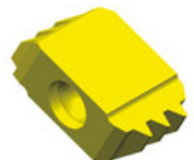
MAXIMIZE EFFICIENCY: ONE SINGLE PASS, MULTI-LEAD THREADS MACHINING!

Ideal for increasingly complex medical screw thread forms, NTK's single-pass thread forming technology reduces cycle time.

Double lead thread



Triple lead thread



Thread Whirling



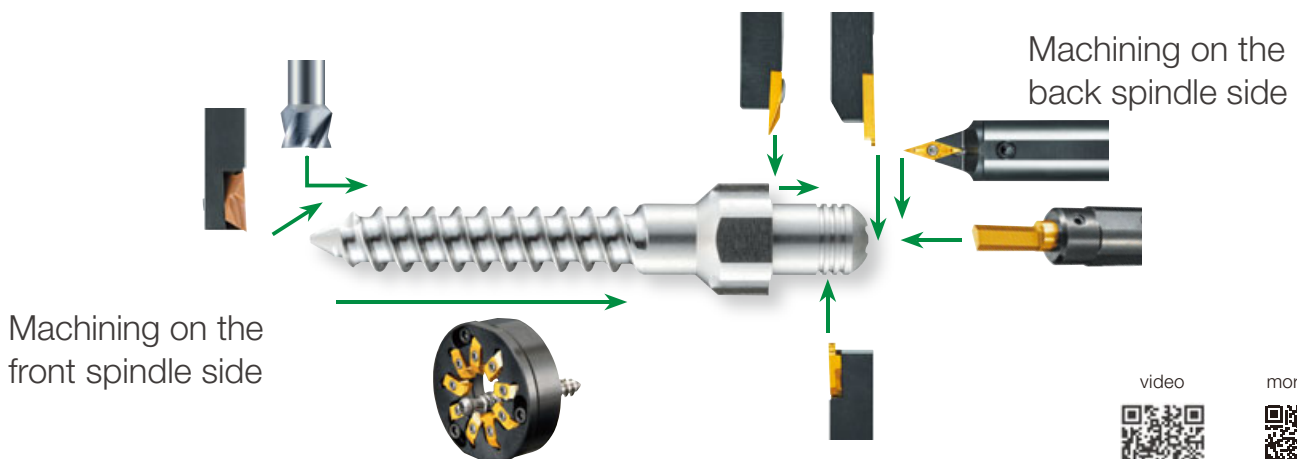
Cutting-edge system for unparalleled productivity in screw manufacturing, such as dental implant and bone screws

Thread Whirling-ECO ^{New}

Same performance with an economical advantage



Tooling layout

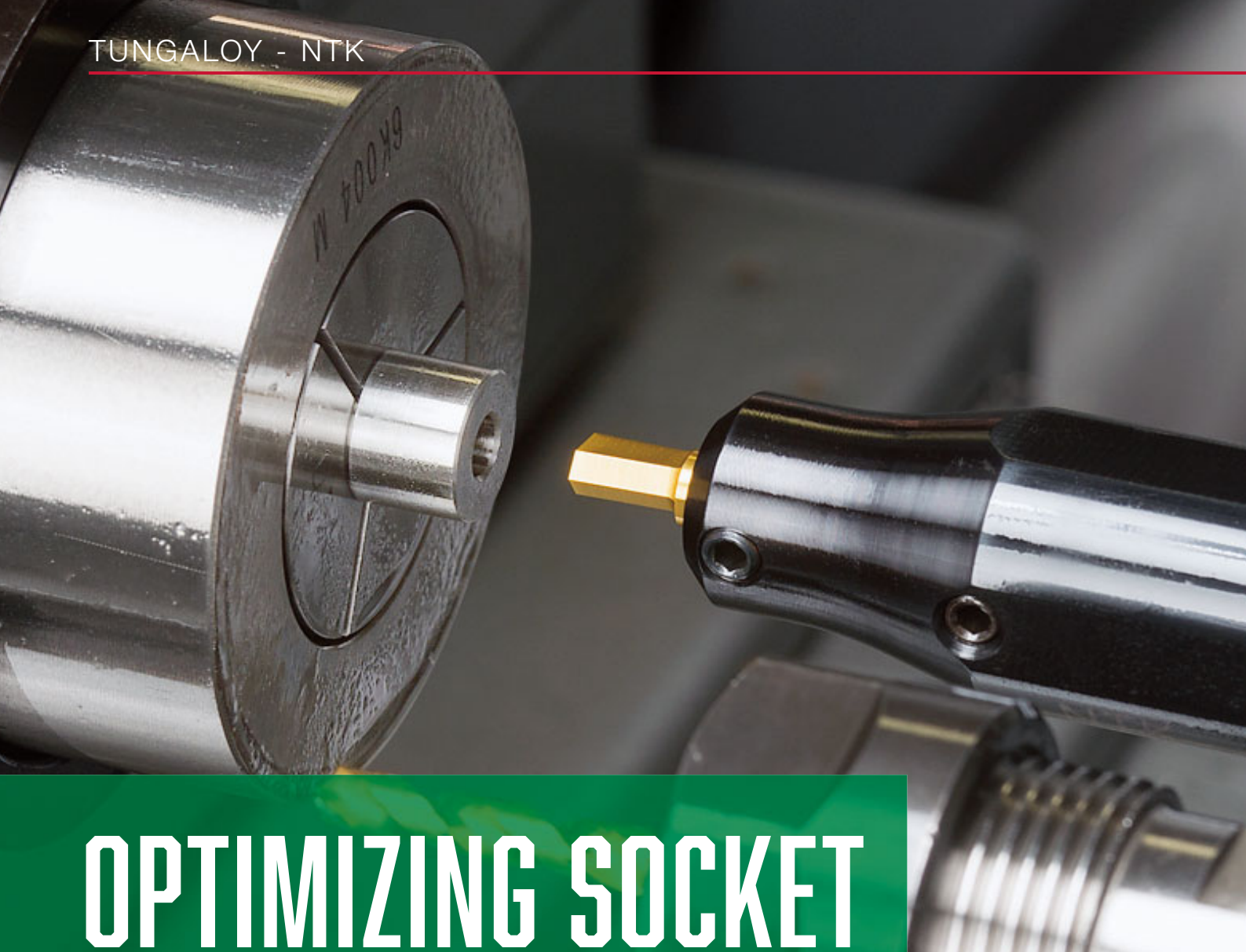


video

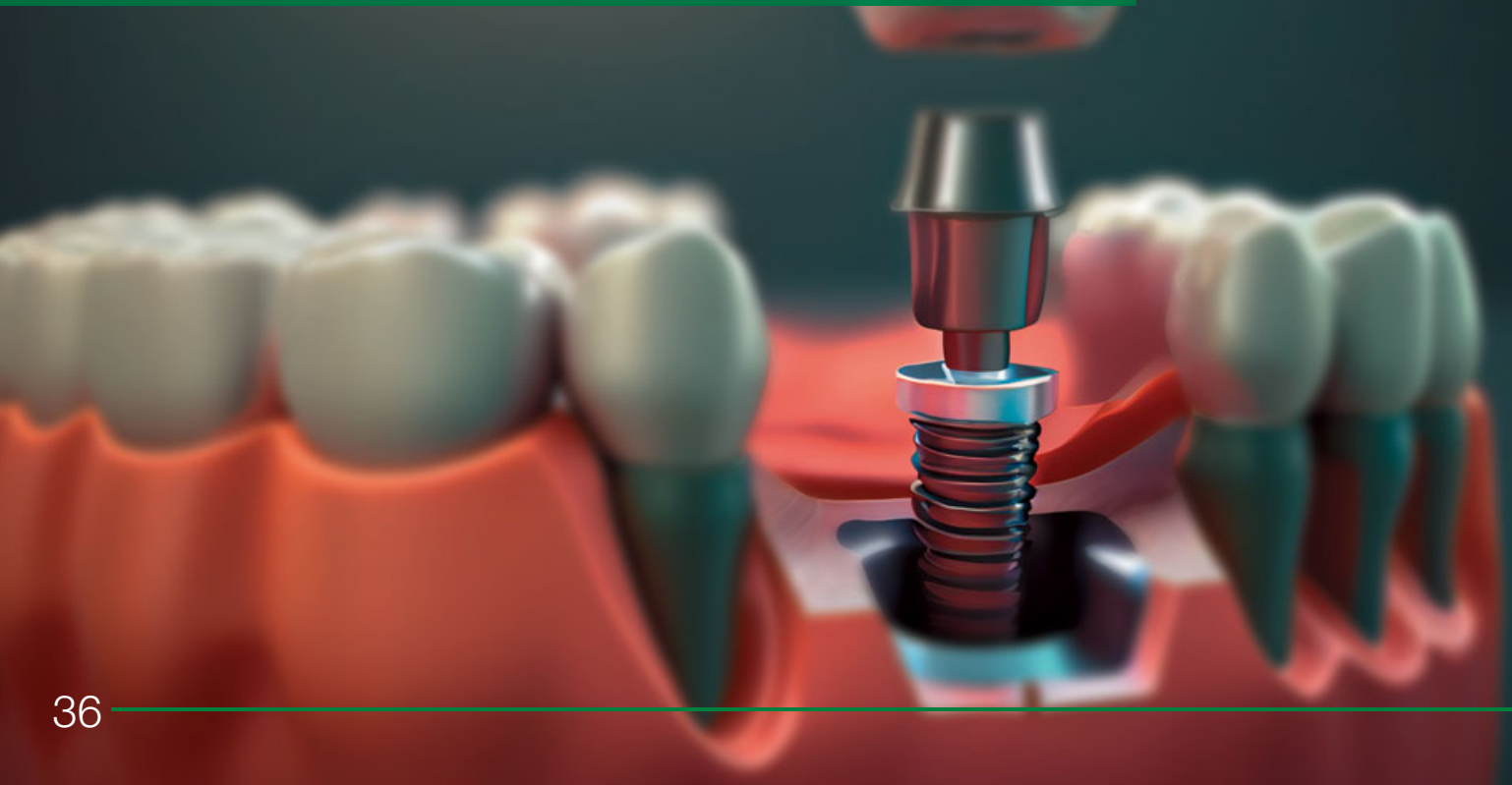


more info





OPTIMIZING SOCKET HOLE MACHINING



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					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 pressure	Cycle time	Tool Cost	High speed spindle	Program	
Shaper Duo				Not necessary	Simple	No need for a high speed spindle
Milling			-	Necessary	Complicated	Requires high speed spindle

New Hexagon socket : AF 1.0 mm - 1.4 mm
For Abutment screws

more info



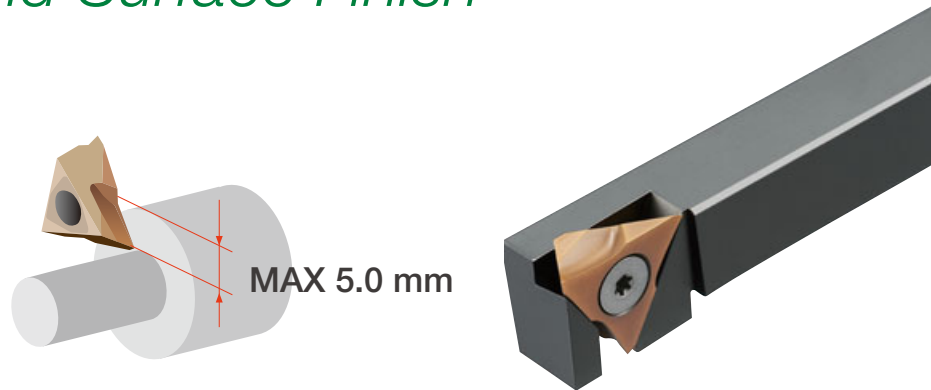


EFFICIENT SINGLE-PASS TURNING WITH DEPTHS OF CUT UP TO **5.0 MM**

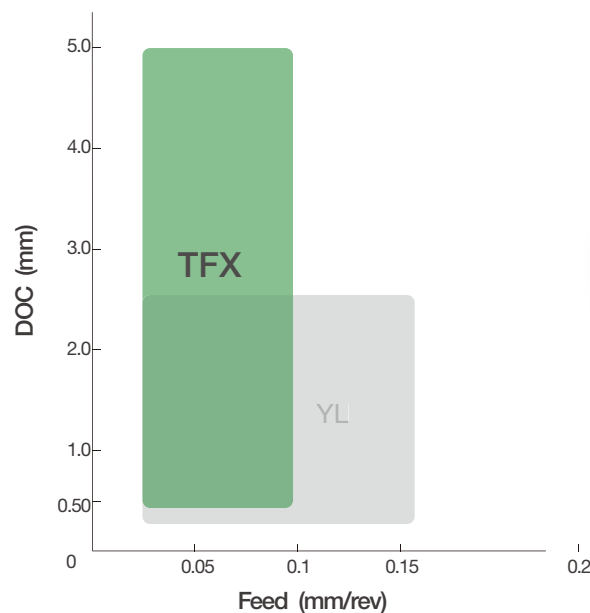
*Reduce Cycle Time, Minimize Insert Wear,
and Extend Tool Life*

The Front Max

*Revolutionary Chipbreaker Design
Delivers Superior Chip Control
and Surface Finish*



APPLICATION RANGE



video



more info



Specialized for



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

VIBRATION MACHINING: THE UNARGUABLY PREMIER CHIPBREAKER SOLUTION

TMV-WP Chipbreaker

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

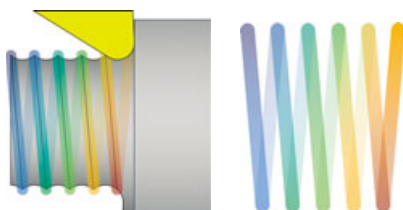
TMV-WP insert, with build-in wiper, delivers superior surface finish even at high feed rates, contributing to longer tool life by enabling increased feed.

Controls chip flow reliably

Shape to prevent cutting edge damage from chipping

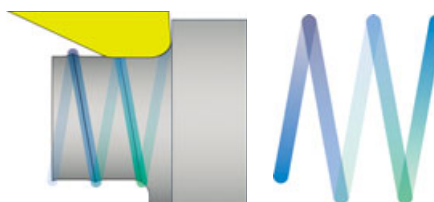
Rake face shape to withstand high cutting feeds

Conventional Tool Path Length



Conventional feed: **0.05 mm/rev**
Tool path length: **31.4 m**

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



TMV-WP feed: **0.10 mm/rev**
Tool path length: **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

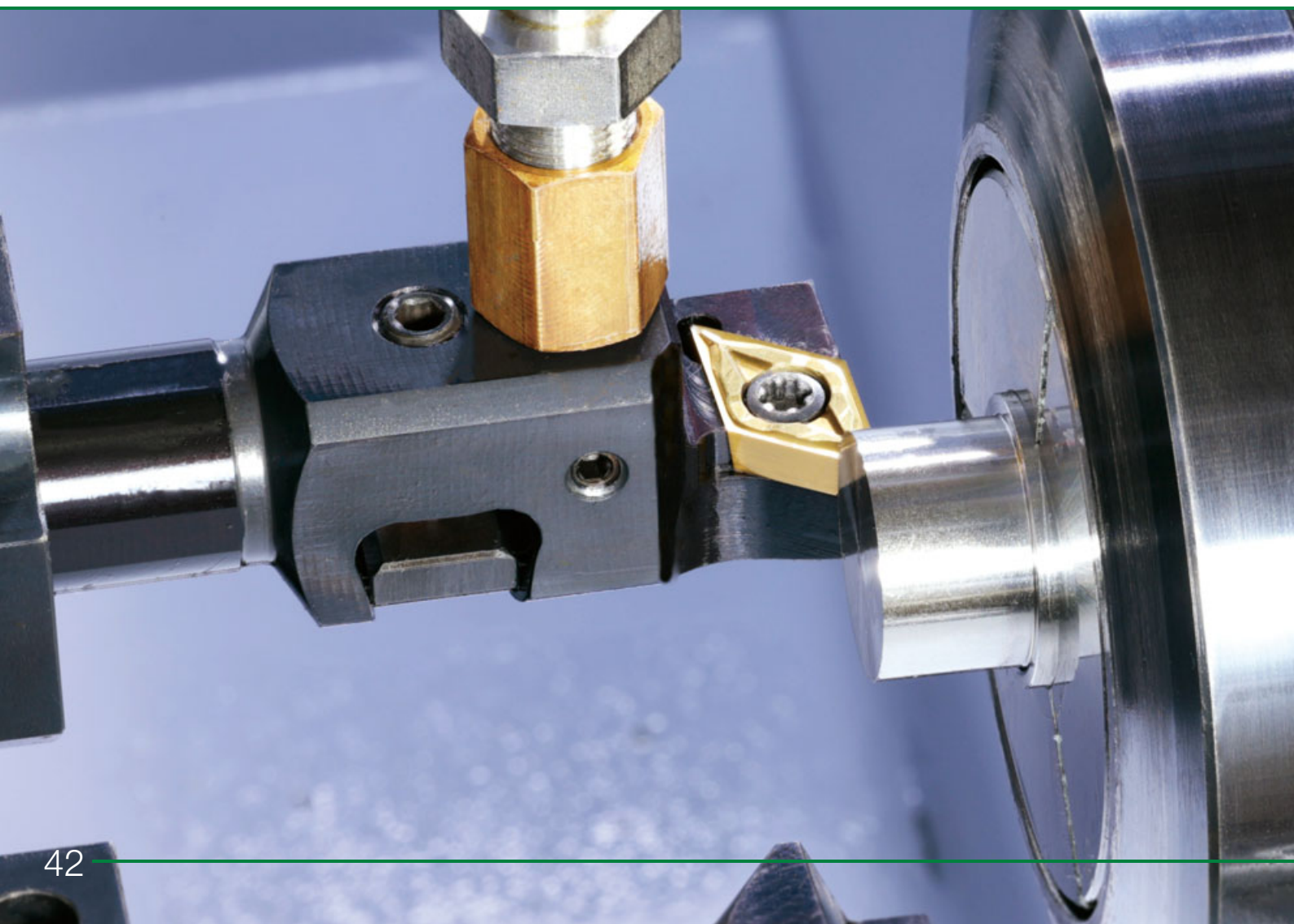


more info



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

For machines without Y-2 Axis capabilities



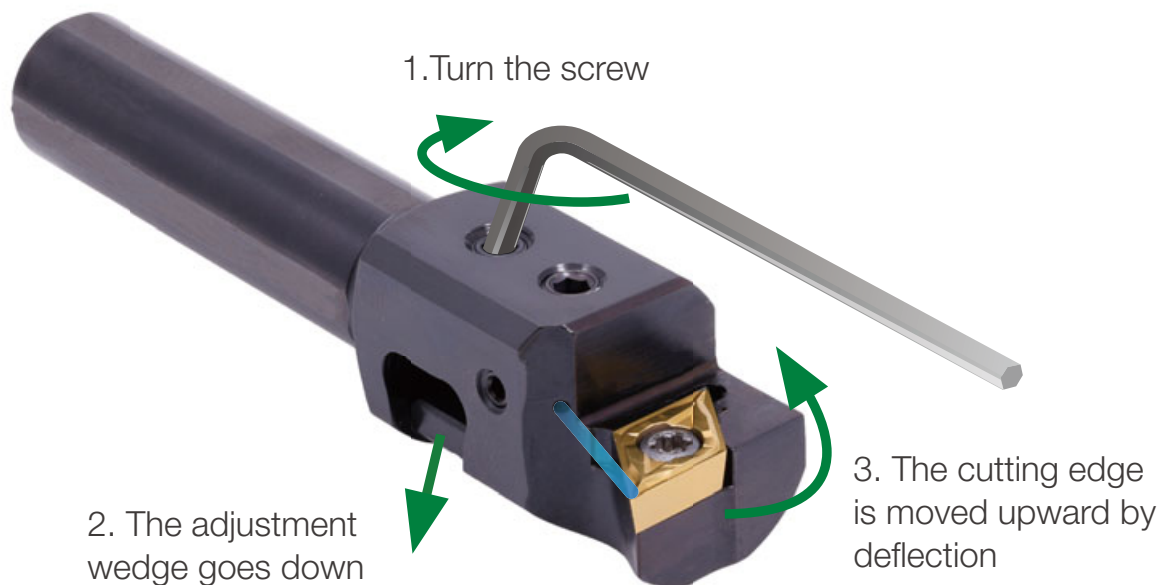
DS-ACH-OH toolholder series

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

Range of centerline adjustment: 0 - 0.2 mm

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°	0.05
360°	0.10
540°	0.20
720°	0.30

more info

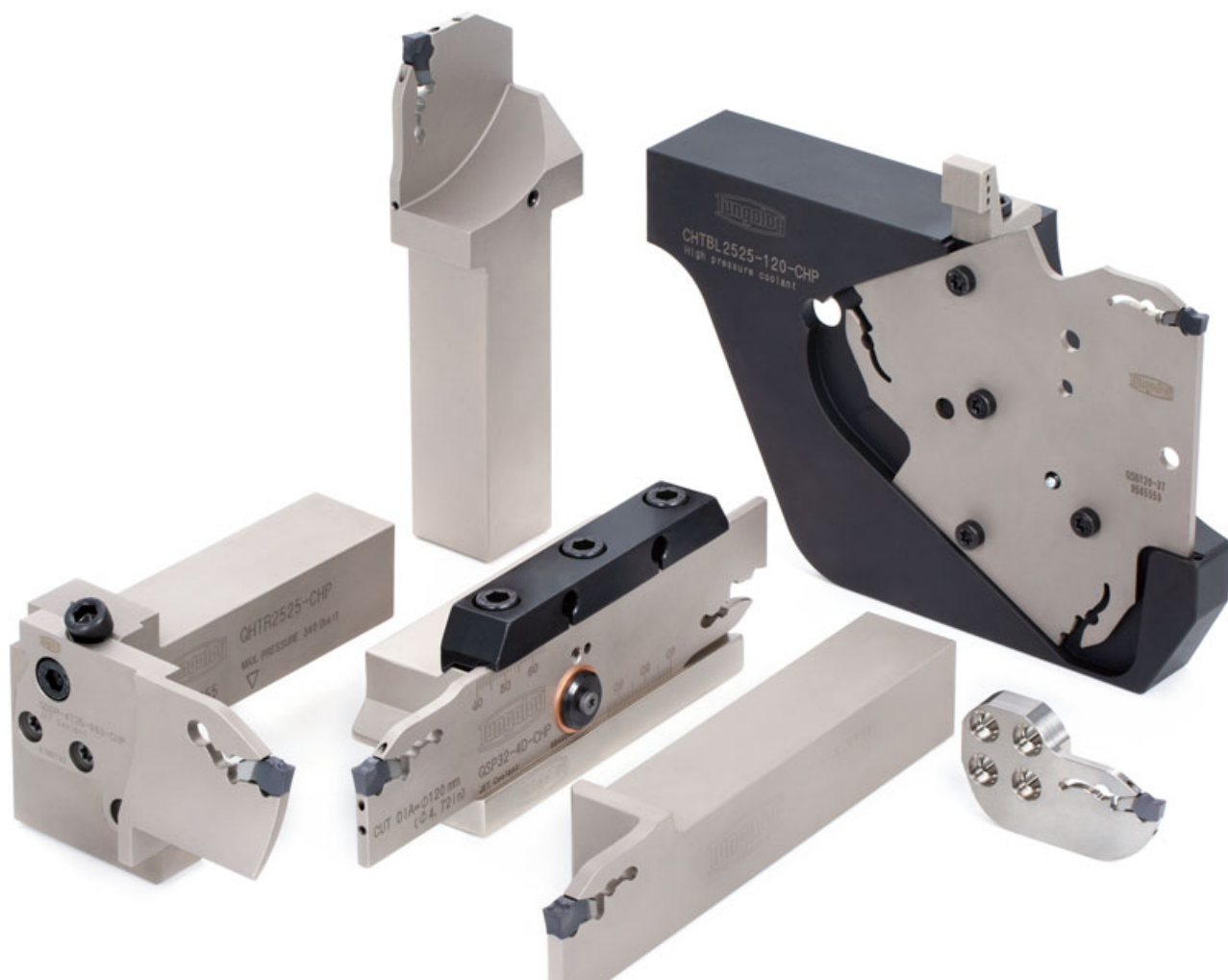
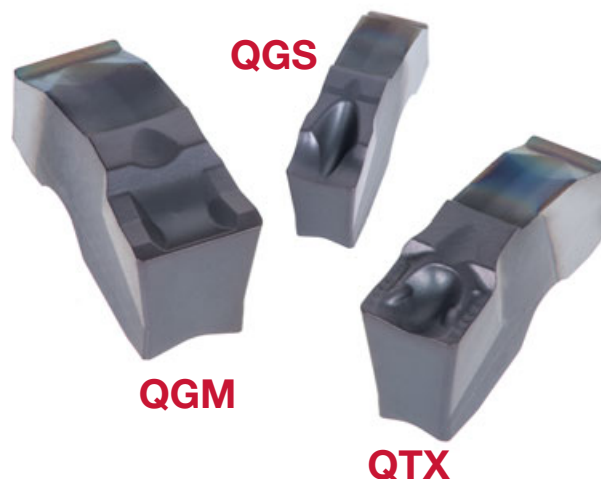



ADD^{ORCE}FCUT

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 = 2, 3, 4, 5, 6 and 8 mm
CDX Max = 41 mm





Holders featuring pin-pointed high pressure coolant to the cutting edge

EXCEL IN WIDE APPLICATIONS OF DEEP GROOVING AND PARTING-OFF

video



e-catalog



UNIQUE 4-EDGED INSERT FOR SMALL INTERNAL GROOVING OPERATIONS

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



TCIG10... and **TCIG12...**

CW = from 0.5 to 3 mm

Max. insert cutting depth:

CDX = 3 mm

Min grooving dia:

DMIN = $\varnothing 10.5$ mm



ADD^{INTERNAL}CUT

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.

video

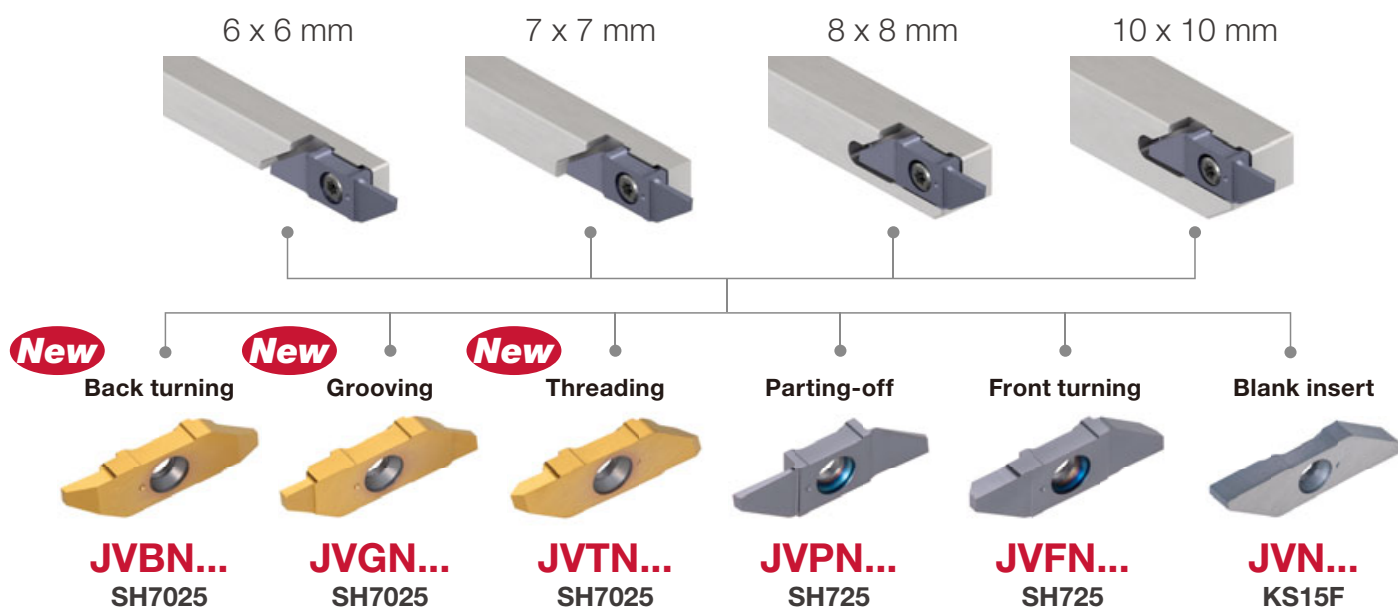


e-catalog

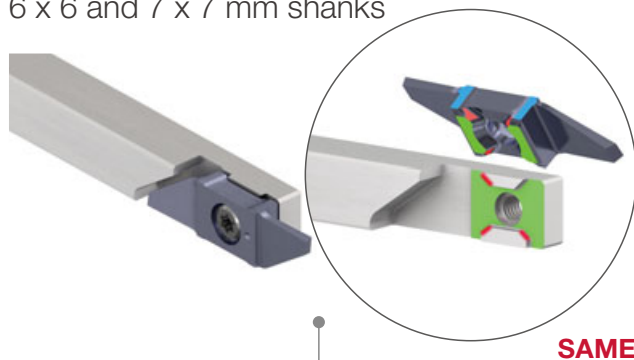


DUO^{ORCE}FCUT

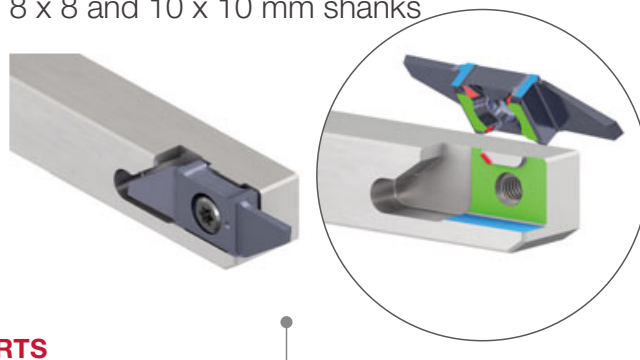
*New flexible tool series with unique insert clamping system.
Ideal for machining small parts with
12 mm or smaller diameters.*



6 x 6 and 7 x 7 mm shanks



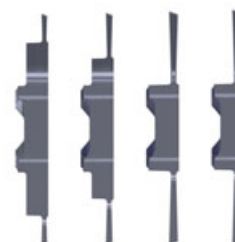
8 x 8 and 10 x 10 mm shanks



SAME INSERTS



For turrets with radial tool arrangements



Groove widths available from 0.5 to 1 mm

A STEP FORWARD FOR TURNING AND GROOVING MINIATURE OPERATIONS

*Flexibility and a wide
range of operations with
the new turning tool series
for CNC automatic lathes
and cam-driven lathes*

video



e-catalog



INDEXABLE TOOLING SOLUTION FOR INTERNAL MACHINING OF SMALL DIAMETER BORES



TINY^{INTERNAL}CUT

Internal grooving and thread turning tool series for bores as small as $\varnothing 5$ mm

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



e-catalog



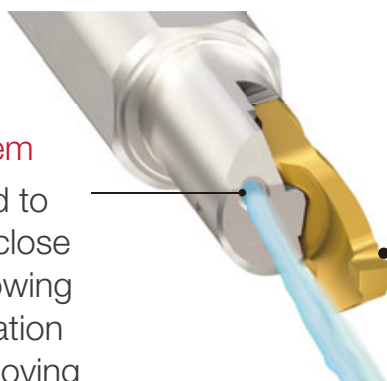


FACE^{INI}M^{CUT}

*Deep face grooving of up to 10 mm DAXN
(minimum face grooving diameter) and up to
9 mm 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.



MFGR10

SUPERB DEEP FACE GROOVING TOOL SERIES

e-catalog

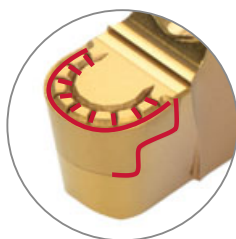


NEW CBN AND PCD INSERTS

TUNG^{CUT}

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

New



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

New



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

SAME PERFORMANCE SMALLER SIZE

TUNG^{HORT} SCUT

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 = 0.8 - 3 mm



DTR*S

Full radius type
CW = 2 - 3 mm

New



STV*S

For profiling applications



S-CTIRS-H



QC-JTTER/LS



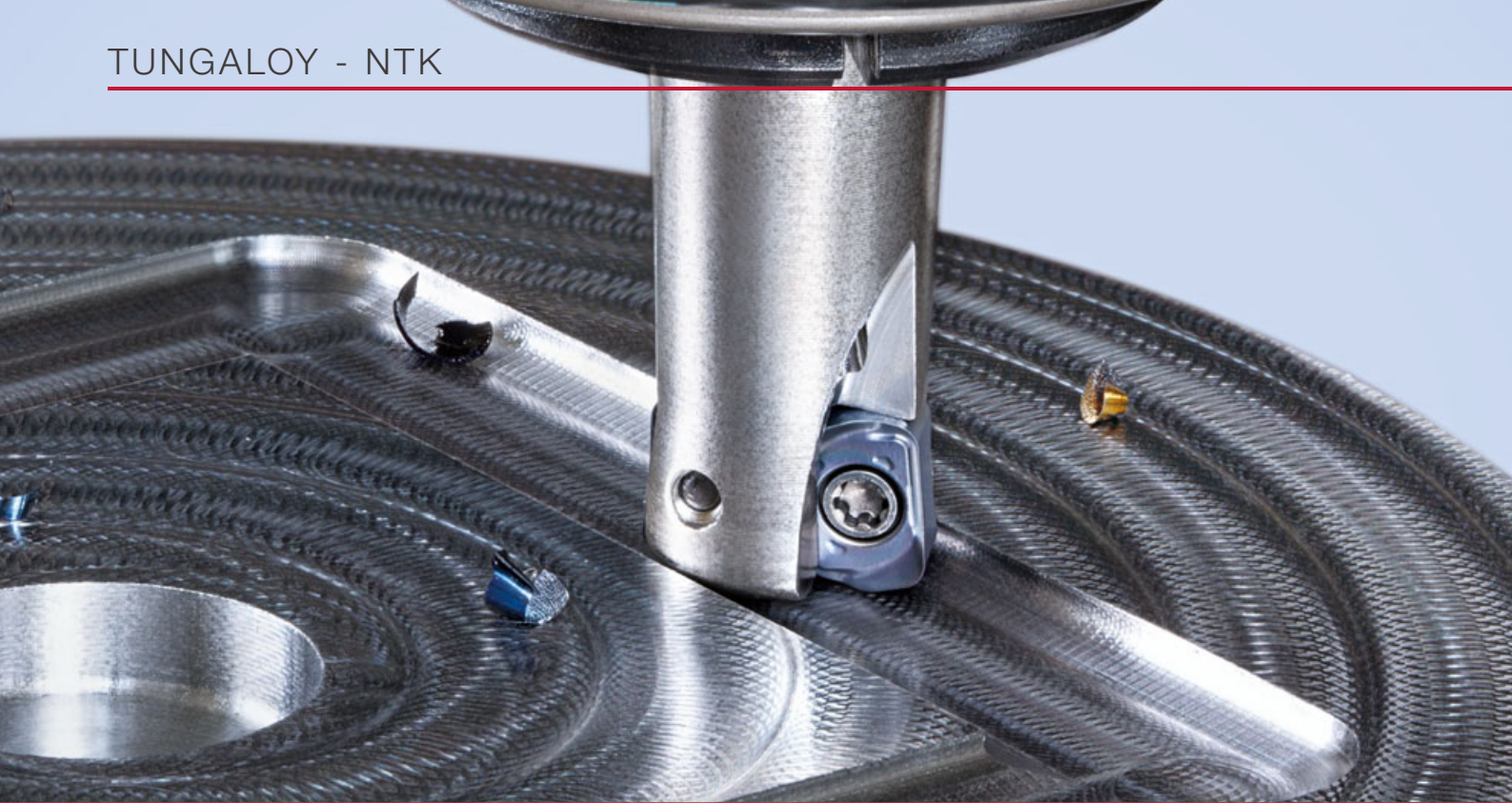
CTIR**S

video



e-catalog





HIGH-FEED MILLING CUTTERS

ADD^DFEED

Small diameter high-feed milling cutter for expanded application coverage, featuring cutter bodies as small as $\varnothing 8$ mm

Cutter bodies:

Shank type: **EXN02R...** (Short type)
EXN02RL** (Long type)
DCX = $\varnothing 8$ - $\varnothing 25$ mm

Modular type: **HXN02R...**
DCX = $\varnothing 8$ - $\varnothing 25$ mm



LNMU02-MM

Double-sided,
4-edged insert
APMX = 0.5 mm



video



e-catalog



FOR MAXIMUM PERFORMANCE

DO^{FEED}TRI

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

Cutter bodies:

Bore type: **TXWX03** DCX = $\varnothing 40 - \varnothing 80$ mm

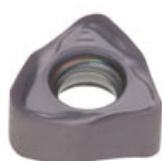
Shank type: **EXWX03** DCX = $\varnothing 16 - \varnothing 40$ mm

Modular type: **HXWX03** DCX = $\varnothing 16 - \varnothing 40$ mm



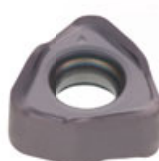
MM

For General purpose chipbreaker
APMX = 1 mm



ML **New**

For low cutting forces chipbreaker
APMX = 1 mm



MS **New**

For stainless steel chipbreaker
APMX = 1 mm



video



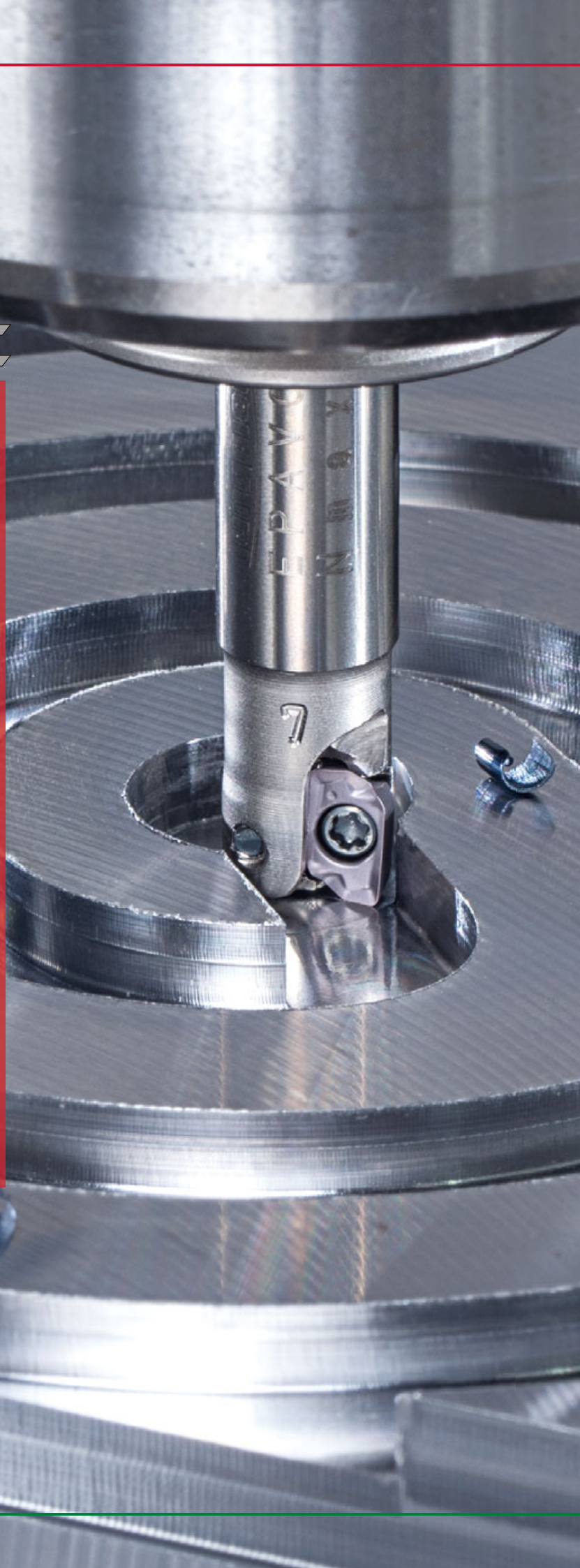
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TUNG^{ORCE}FREC

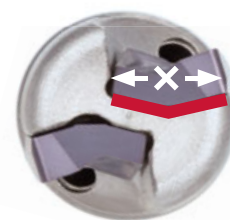
ADVANCED SHOULDER MILLING CUTTER

*Unmatched
stability across
all materials, with
an innovative
clamping system*





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



New



AV*T18

Max. depth of cut:
16.5 mm

Cutter bodies:

Shank type:

EPAV18

DC = $\varnothing 25 - \varnothing 63$ mm

Bore type:

TPAV18

DC = $\varnothing 40 - \varnothing 160$ mm



AV*T12

Max. depth of cut:
11.5 mm

Cutter bodies:

Shank type:

EPAV12

DC = $\varnothing 12 - \varnothing 32$ mm

Modular type:

HPAV12-M

DC = $\varnothing 16 - \varnothing 40$ mm

Bore type:

TPAV12

DC = $\varnothing 50 - \varnothing 63$ mm



AVGT06

Max. depth of cut:
6 mm

Cutter bodies:

Shank type:

EPAV06

DC = $\varnothing 8 - \varnothing 32$ mm

Modular type:

HPAV06-M/S

DC = $\varnothing 10 - \varnothing 16$ mm

Bore type:

TPAV06

DC = $\varnothing 40$ mm



AVMT04

Max. depth of cut:
4 mm

Cutter bodies:

Shank type:

EPAV04

DC = $\varnothing 6 - \varnothing 16$ mm

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TUNGMEISTER

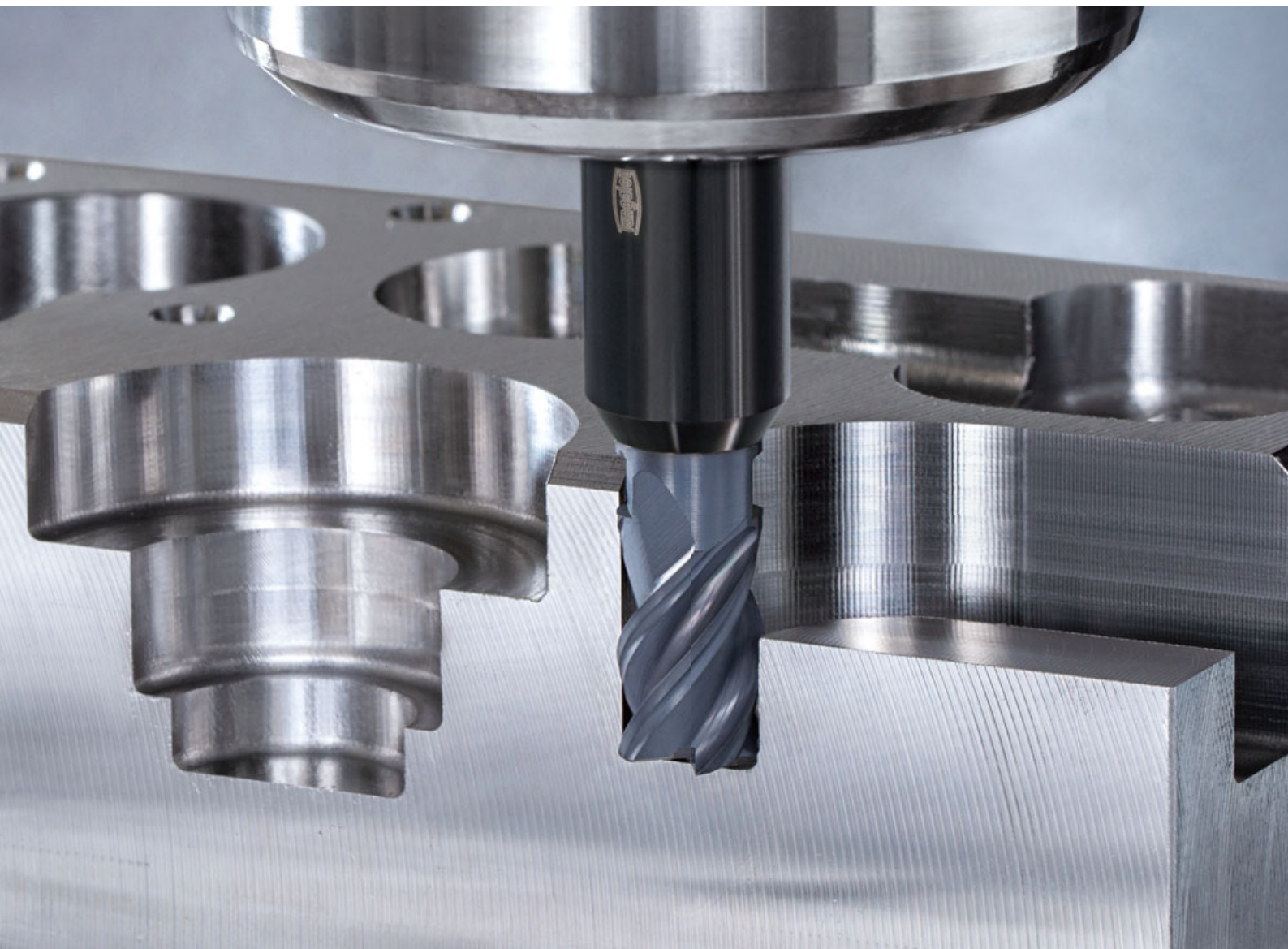


MORE THAN 13,000 POSSIBLE COMBINATIONS

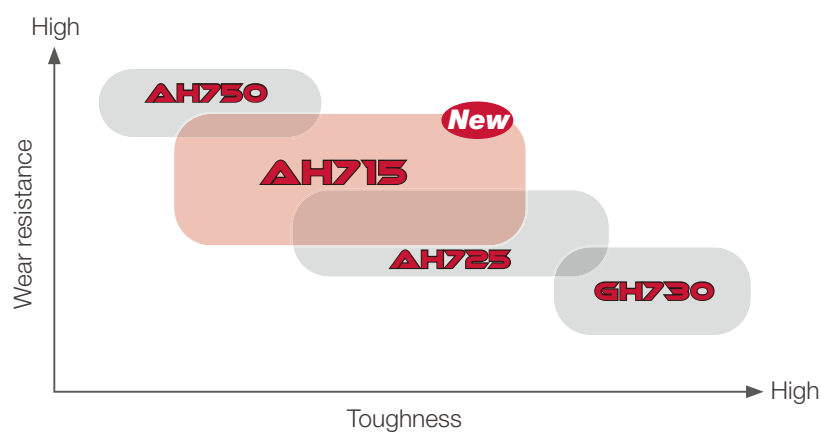
*Easy and accurate head-holder coupling
provides reduced tool change time and
high accuracy of cutting point repeatability*

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 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.*



e-catalog



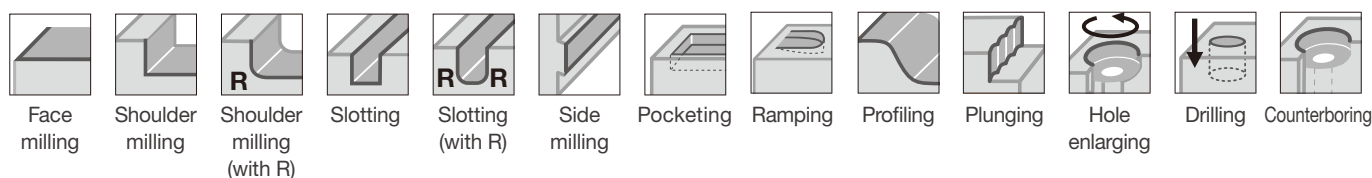
VERSATILITY MEETS EFFICIENCY

*More operations with a single
tool, from shoulder milling to
hole making*



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

Applications capabilities



Cutter bodies:

Shank type: **EVLX06/08/10/12/16/19...** (Short type) DC = $\varnothing 12 - \varnothing 40$ mm

EVLX06/08/10/12/16/19L** (Long type) DC = $\varnothing 12 - \varnothing 40$ mm

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

LX*U-MM/AM

General-purpose chipbreaker

MM

AM **New**

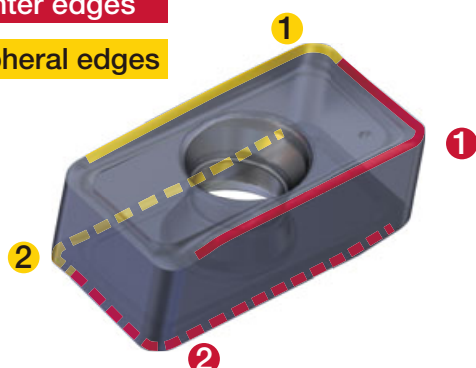
Non-ferrous machining chipbreaker



Tool dia. DC (mm)	$\varnothing 12, \varnothing 13$	$\varnothing 16, \varnothing 17$	$\varnothing 20, \varnothing 21$	$\varnothing 25, \varnothing 26$	$\varnothing 32, \varnothing 33$	$\varnothing 40$
APMX (mm)	5	7	9	11	14.5	18
Insert size	06	08	10	12	16	19

Two center edges

Two peripheral edges



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





TUNG TAP

Tungaloy taps feature high-speed steel with advanced treatments and coatings for longer life and better performance.

Steam Tempered (HB060, HD070): Reduces friction and prevents cold welding.

Nitriding (NB060, NB070): For abrasive materials like cast iron and high-silicon aluminum.

TiN (PB060, PB070): General-purpose golden coating, ~2,300 HV, heat resistant to 600°C.

TiCN (GB060, GB070): Tough coating for difficult steels, ~3,000 HV.

TiAlN (AB060, AB070): For high-speed, high-temp use; ~3,000 HV, resists up to 800°C.

DLC (DB070): Low-friction coating for non-ferrous materials.



TAPPING INTO PERFORMANCE AND PRECISION

*Cost-efficient, high-
performance taps
for versatile applications
and materials*



**UNBEATABLE CERAMIC
CUTTER: AS SMALL AS
Ø16 MM FEATURING
3 INDEXABLE INSERTS**

New**MODULAR TYPE**

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:

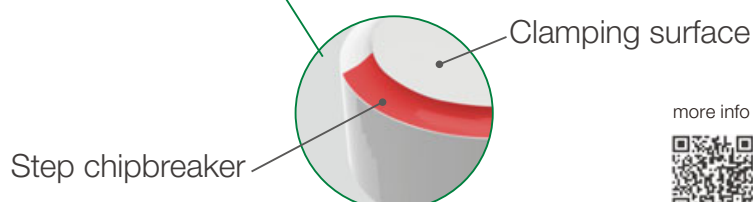
Shank type: **JRF...**

DCX = $\varnothing 16$, $\varnothing 20$, $\varnothing 25$ and $\varnothing 32$ mm



RNGF-HNF

Double-sided
APMX = 1 mm
Available with **SX3** and
SX9 Ceramic grades



more info





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 = $\varnothing 8$ - $\varnothing 12.7$ mm

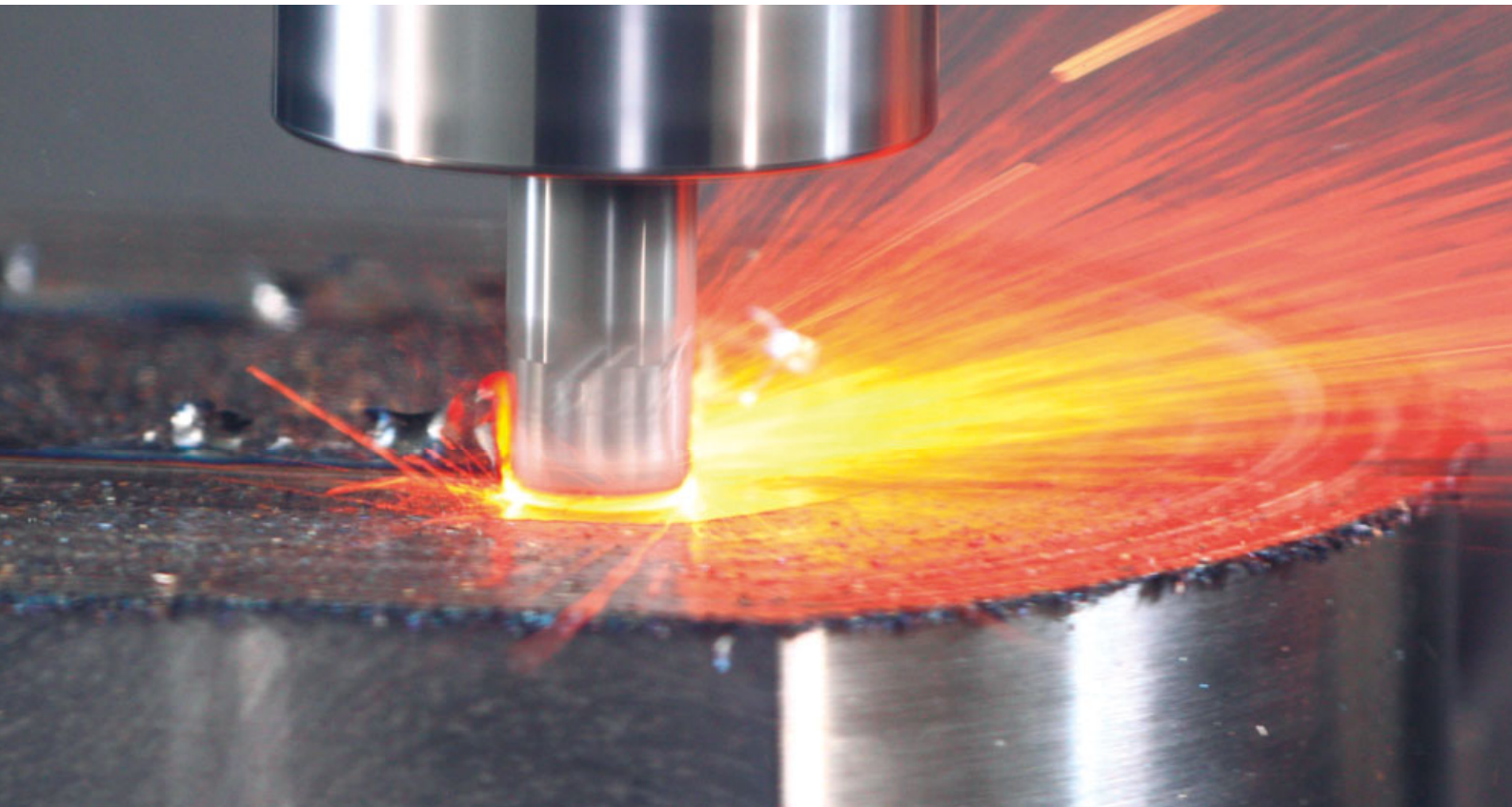
APMX = 0.5 - 9.525 mm

RCE-J6 (SX9)

6 Flutes

DC = $\varnothing 8$ - $\varnothing 12.7$ mm

APMX = 0.5 - 9.525 mm



UNLEASHING PRODUCTIVITY AND EFFICIENCY, A REFERENT IN CERAMIC ENDMILLS





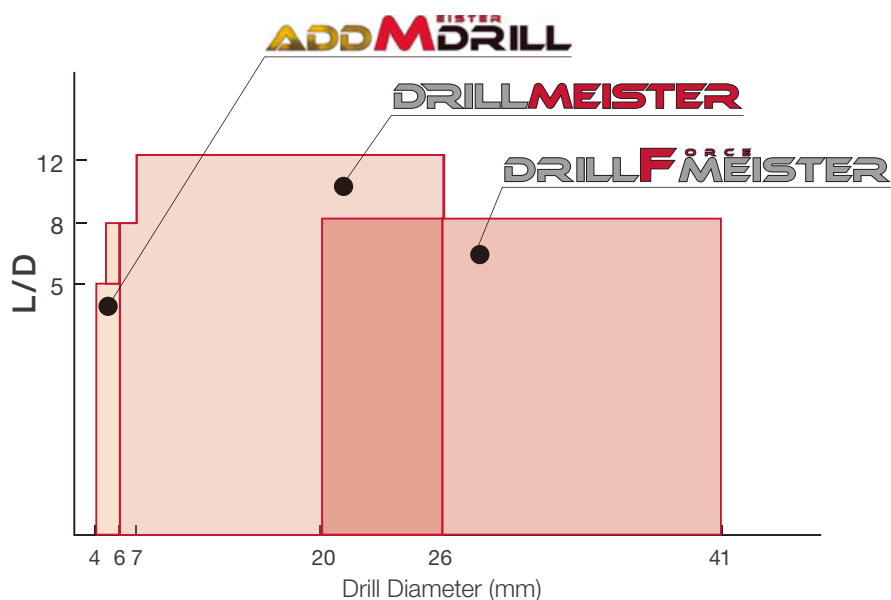
OUTSTANDING RANGE OF HEAD EXCHANGEABLE DRILLS

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

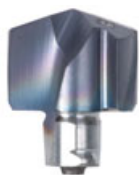
Quick drill tip change for reduced machine downtime.

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.



ADD^{MEISTER} DRILL



DMP

Drill dia.:
ø4 - ø5.9 mm

General purpose drilling head ideal for various drilling applications



DMC

Drill dia.:
ø4 - ø5.9 mm

High precision drilling head with self-centering chisel edge



New DMF

Drill dia.:
ø4 - ø5.9 mm

180° flat edges for counterboring and flat bottoms

video



e-catalog



DRILL^{MEISTER}



DMP

Drill dia.:
ø6 - ø25.9 mm

General purpose drilling head ideal for various drilling applications



DMC

Drill dia.:
ø6 - ø25.9 mm

High-precision head with double margin and self-centering edge



DMF

Drill dia.:
ø6 - ø25.9 mm

180° flat edges for counterboring and flat bottoms



DMH

Drill dia.:
ø6 - ø25.9 mm

General purpose head with enhanced cutting edge



DMN

Drill dia.:
ø6.8 - ø19.5 mm

Drill head with sharp edges for non-ferrous materials



DMM New

Drill dia.:
ø10 - ø16.7 mm

General purpose drilling head for Stainless Steel materials

video



e-catalog



DRILL^{FORCE} MEISTER



SMC

Drill dia.:
ø20 - ø33 mm

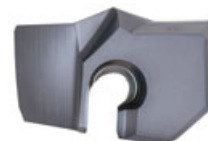
High precision drilling head with self-centering chisel edge



SMP

Drill dia.:
ø20 - ø41 mm

General purpose drilling head ideal for various drilling applications



SMF

Drill dia.:
ø20 - ø41 mm

For efficient drilling of flat-bottom holes

e-catalog



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



TID-M

Drill dia.:
 $\varnothing 6 - \varnothing 18.9$ mm
 2xD and 3xD
 TungFlex connection

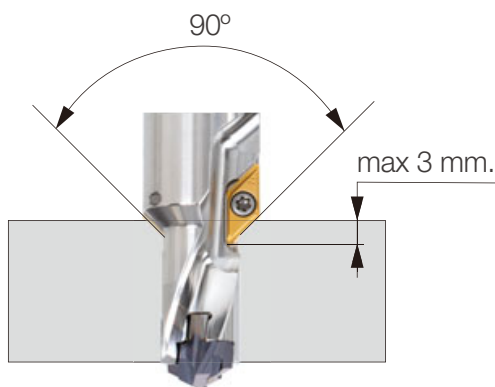
**TID-S**

Drill dia.:
 $\varnothing 6.5 - \varnothing 10.9$ mm
 2xD
 TungMeister connection

video



Stable chamfering capability with less chattering due to dedicate insert design for chamfering
 Dedicated line up for pre-thread drilling of metric and UNF threads

**TID-L-A-M**

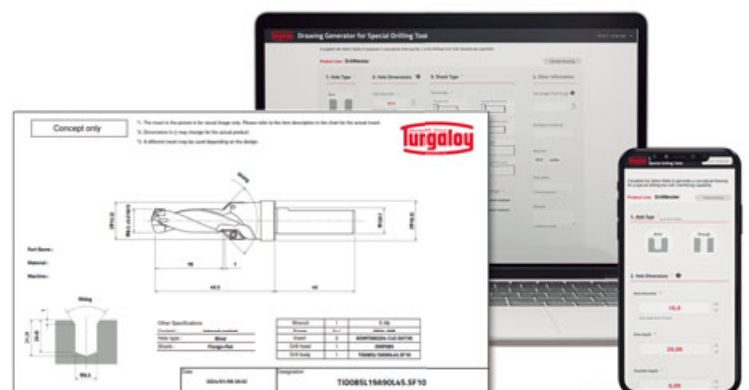
Drill dia.:
 $\varnothing 6.5 - \varnothing 16.9$ mm
 TungFlex connection
 Drilling+Chamfering /
 pre-thread Drilling

video



INTRODUCING SPECIAL DRILLING TOOLS AND THEIR DRAWING SYSTEM

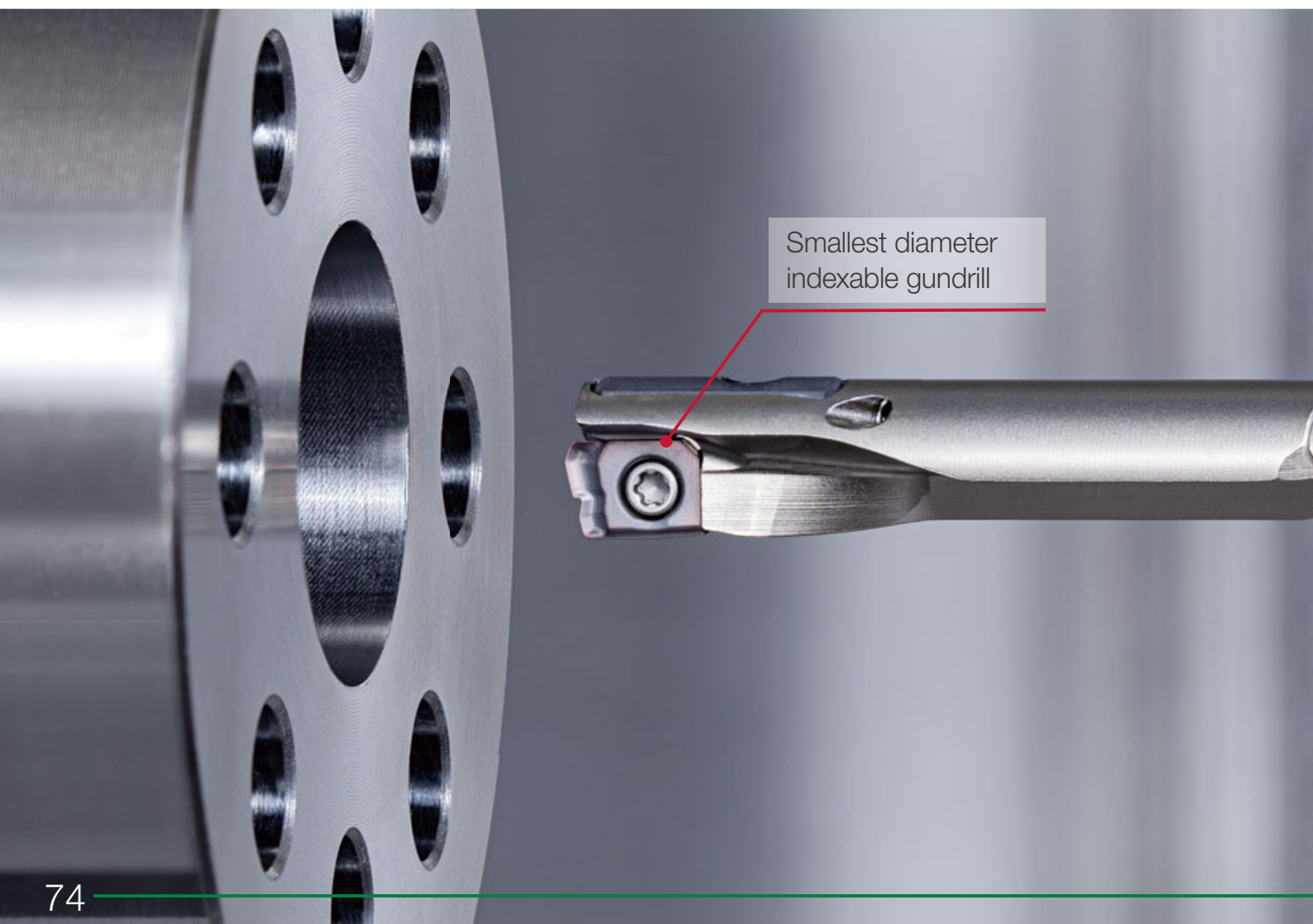
Discover Tungaloy's platform for creating simple diagrams instantly, anywhere. Explore the 'Drawing System for Special Drilling Tools'! Enter tool details to swiftly generate diagrams illustrating special drilling tools with chamfering or boring functions.



DEEPT^{RI}DRILL

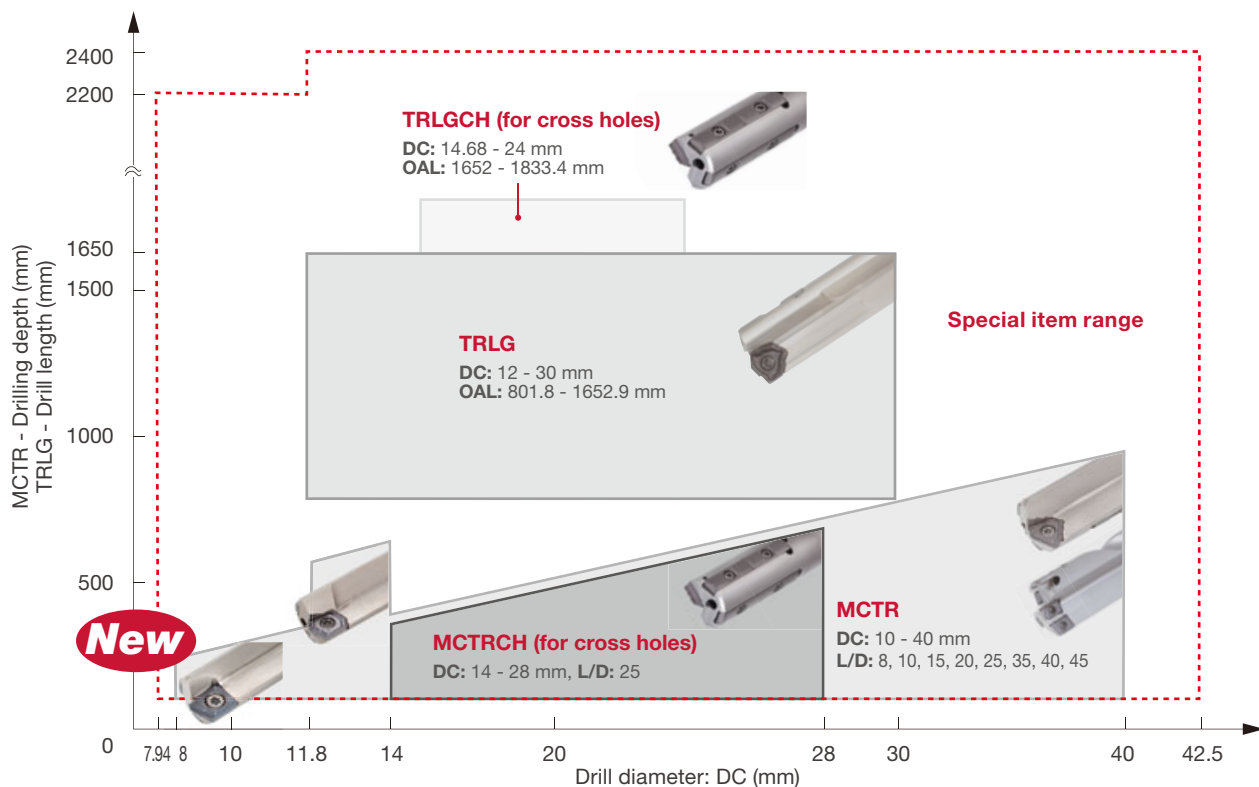
THE SMALLEST AND DEEPEST HOLES WITH AN INDEXABLE GUNDRILL





*Wide range of indexable deep drilling solutions
to your machining needs*



Smallest diameter
indexable gundrill

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



ZSGT	LOGT	TOHT	FBM...-I/C / FBH...
			
Drill dia.: ø7.94 - 11.8 mm	Drill dia.: ø11.81 - ø13.99 mm	Drill dia.: ø14 - ø28 mm	Drill dia.: ø28.01 - ø40 mm
1 cutting edge chip splitter	2 cutting edges chip splitter	3 cutting edges chip splitter	2 cutting edges

video

e-catalog



REAMMEISTER

*Exchangeable head reamer
for H7 hole accuracy in
Ø10 - 32 mm and 1.5xD - 8xD*

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



AS type

Tool dia.:
Ø10 - Ø32 mm
for blind holes applications



BL type

Tool dia.:
Ø10 - Ø32 mm
for through holes applications

Tools

Self-clamp system

Tool diameter: Ø10 - Ø11.499 mm
L/D: 3 and 5



Screw clamp system

Tool diameter: Ø11.5 - Ø32 mm
L/D: 1.5, 3, 5 and 8



NEW GENERATION REAMER FOR FINISHING HOLE OPERATION

e-catalog



Worldwide Network

TUNGALOY

Head Office & Production
Facilities in Japan

Tungaloy Corporation Head Office

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Iwaki 970-1144 Japan
Phone: +81-246-36-8501
Fax: +81-246-36-8542
www.tungaloy.com

Iwaki Plant

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

Head Office & Production
Facilities in Japan

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<https://www.ntkcuttingtools.com/br/>

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