TUNGALOY

HIGHLIGHTS

Latest Innovations for Accelerated Machining

TUNGFORCE
TUNGALOY ACCELERATED MACHINING

Member IMC Group
Tungaloy

TUNGFORCE
TUNGALOY ACCELERATED MACHINING

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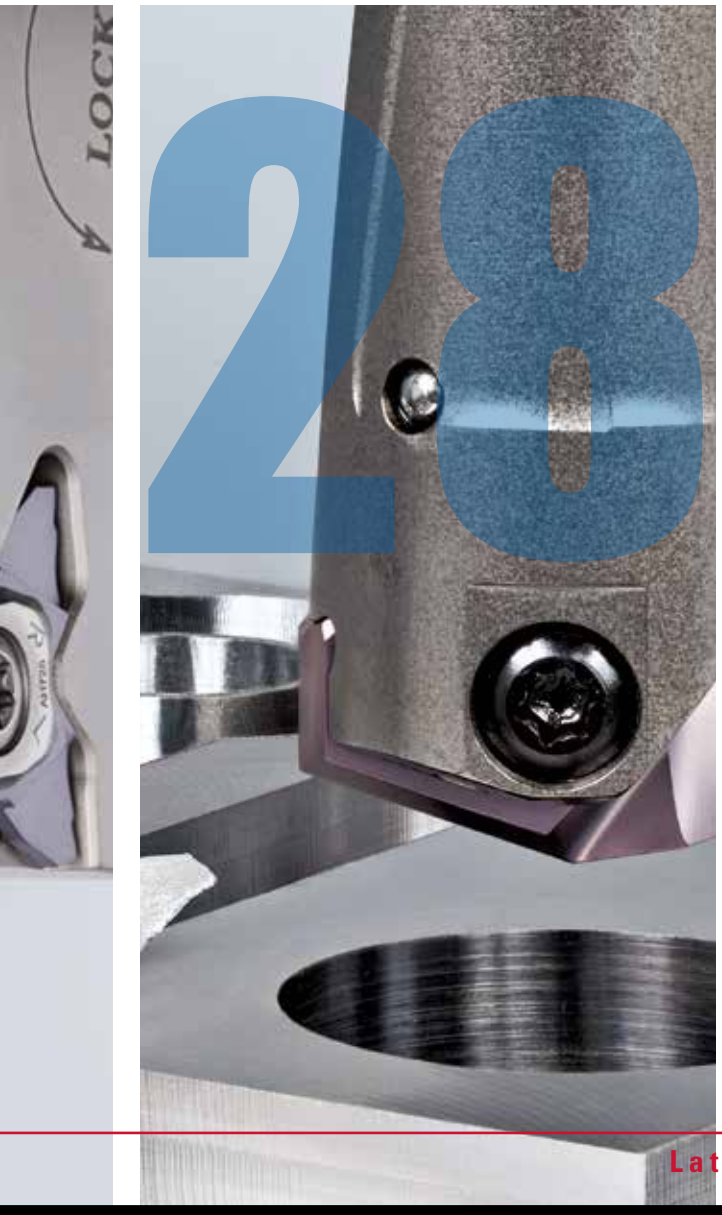
Member IMC Group Tungaloy



MillLine

DoForce-TriTung-TriTungTri-ShredTungForce-RecTungSlot
DoTriple-MillDoFeedMillQuadFeedDoTwistBallDoMini-Mill
BallFinishNose

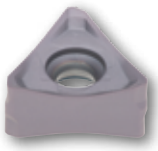
DOFORCE TRI
TUNGALOY

Cost-effective shoulder milling cutter for high productivity

Double-sided triangular inserts for highly productive machining with large depths of cut up to 11 mm.

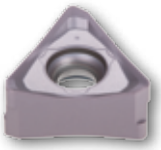
Concave cutting edge and optimized rake angle form barrel-shaped chips, delivering smooth chip evacuation.

Cutter bodies: Bore type **TPTN** (ø*D*c 50 - 125 mm), Shank type **EPTN** (ø*D*c 32 - 40 mm)



TNMU-MJ

Economical molded M-class insert with wiper-edge



TNGU-MJ

Wiper edge for high-quality surface finish.

TNMU-R-MJ

Insert with round corner for high toughness.

TNGU-NMJ

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

TUNG-TRI
TUNGALOY

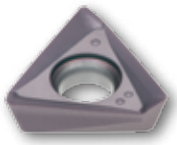
Economical high-precision shoulder milling cutter with anti-chatter design

3 cutting edges per insert for highly economical machining.

Optimized relief geometry on the positive insert ensures **low cutting force and minimal chatter.**

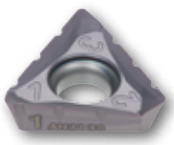
Insert sizes in 6, 10, and 15 mm cover small to large depths of cut.

Cutter bodies: Bore type **TPA** (ø*D*c 32 - 160 mm), Shank type **EPA** (ø*D*c 12 - 50 mm), Roughing type **TLA** (ø*D*c 50 - 100 mm), Modular type **HPA** (ø*D*c 16 - 32 mm)



TOMT-MJ

3 sizes available with versatile MJ chipbreaker.



TOMT-NMJ

NMJ chipbreaker splits chips, reducing chip volume and cutting vibration.

Shoulder milling cutter for roughing to produce shredded chips

Optimized cutter design and cutting edge geometry.

Wavy cutting edge produces small chips reducing chatter.

2 types of inserts fit on the same cutter body, providing options for roughing and finishing.

Cutter bodies: Bore type **TPTC** (ø*D*c 50 - 100 mm), Shank type **EPTC** (ø*D*c 50 mm), Roughing type **LPTC** (ø*D*c 63 - 80 mm)

TCGT-MJ

Excellent surface finish and accuracy due to its high-precision straight cutting edge.

TCMT-NMJ

Anti-vibration machining with extended flute cutter or long overhang application due to wavy cutting edge.

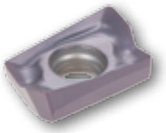
Miniature shoulder milling cutter with incomparable stability

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

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

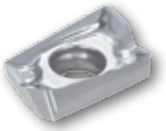
Large screw **improves clamping rigidity.**

Cutter bodies: Shank type **EPAV** (*øDc* 8 - 16 mm), Modular type **HPAV** (*øDc* 10 - 16 mm)



AVGT-MJ

Suitable for steel, stainless steel, cast iron, and superalloys.



AVGT-AJ

Suitable for non-ferrous metal due to its polished rake face.

TUNGSLOT
TUNGALOY

Stable slot milling operation with excellent chip control

TungMiniSlit (ø63 - ø125 mm)
Thin-width slitting cutter with self-clamping insert.

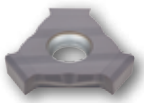
TungThinSlit (ø80 - ø200 mm)
Axial drive type slot milling cutter with 6-cornered side-mounted insert.

TungUniversalSlot (ø80 - ø160 mm)
Axial and radial drive type slot milling cutter with 6-cornered radial-mounted insert.

TecTangentialSlot (ø100 - ø250 mm)
Axial and radial type slot milling cutter with tangentially mounted inserts.

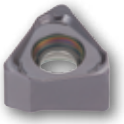
SSS/M-N

Groove width = 1.6 to 4.5 mm



TVKX-MJ

Groove width = 4 to 9 mm



WNGU-MJ

Groove width = 9 to 16 mm

LMEU-MJ

Groove width = 16 to 25 mm

TRIPLE DOTMILL
TUNGALOY

Face milling cutter with 3 types of double-sided inserts

3 types of double-sided inserts fit in the same pocket: square, octagonal, and round inserts.

Dovetail structure provides high clamping rigidity with only one screw.

Cutter bodies: Bore type **TASN** (ø*D*c 50 - 160 mm) available in coarse- and close-pitch designs.

SNGU13-MJ

8-cornered insert
Max. ap - 6 mm

ONGU05-MJ

16-cornered economical insert
Max. ap - 3.4 mm

RNGU13-MJ

8-cornered radius insert for high feed and general machining
Max. ap - 6 mm

DOFEED
TUNGALOY

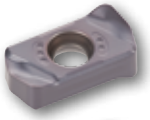
The ultimate high-feed cutter with maximum versatility

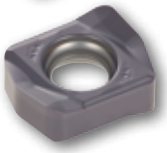
Perfectly designed tool for unrivalled performance in high-feed milling.

Carefully designed positive geometry enables **smooth chip evacuation and minimal chattering with low cutting force.**

Unique concept of a wiper insert for high-feed machining plus finishing.

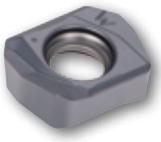
Cutter bodies: Bore type **TXN03R** (ø*D*c 40 - 50 mm) & **TXN06** (ø*D*c 50 - 200 mm),
Shank type **EXN03** (ø*D*c 16 - 35 mm) & **EXN06** (ø*D*c 32 - 40 mm),
Modular type **HXN03** (ø*D*c 16 - 32 mm)
Available in coarse- and close-pitch designs.





LNMU03/06-MJ & ML

MJ: Ideal for tough applications
ML: Applicable for gummy materials

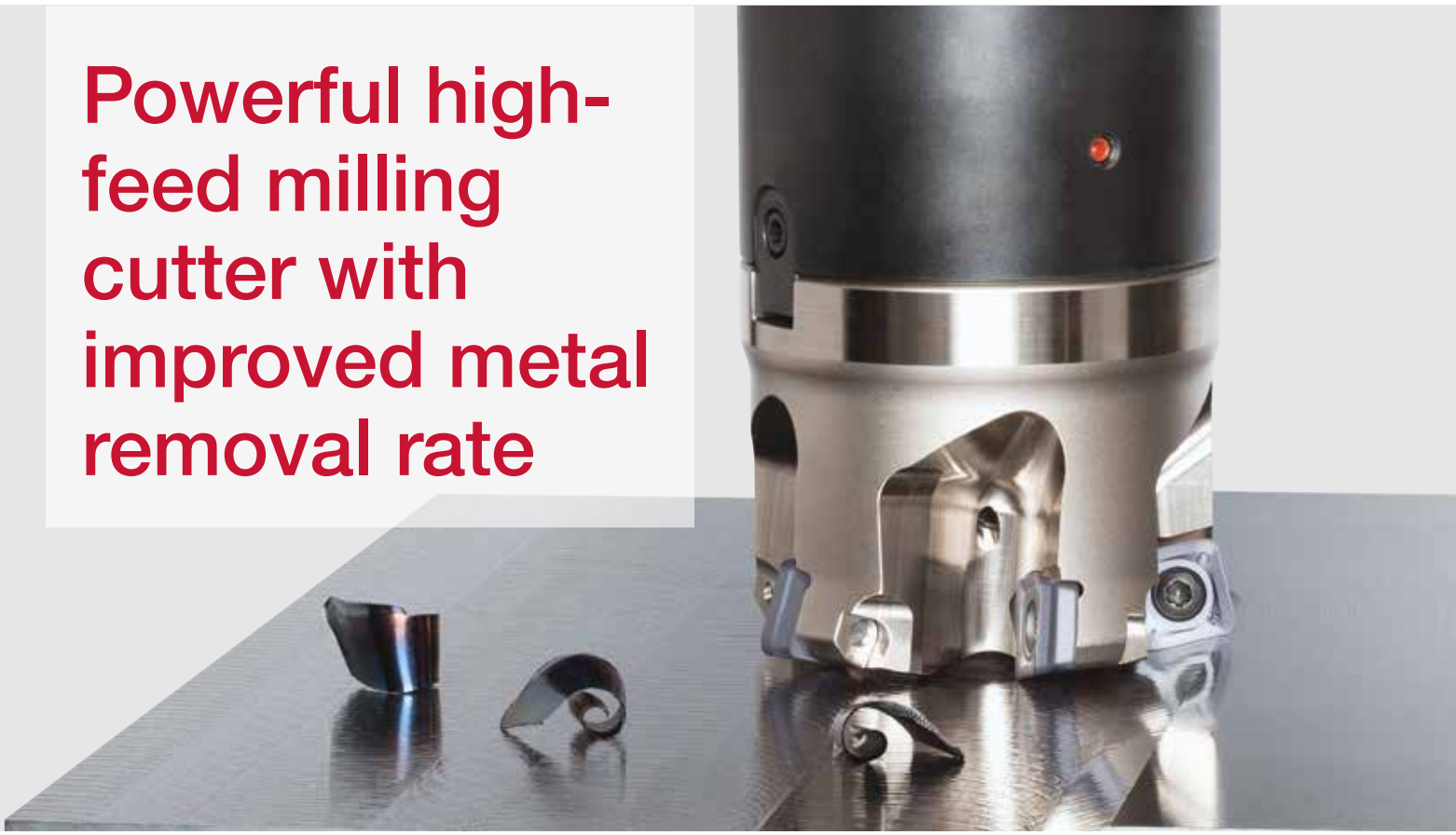


LNGU06X5ZER-W

Wiper with 2 cutting edges for better bottom surface finish

MILLQFEED UAD
TUNGALOY

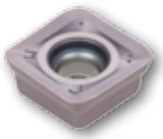
Powerful high-feed milling cutter with improved metal removal rate



Square-shaped insert with **4 cutting edges and positive flank** clearance.

Outstanding productivity due to **large depth of cut 2.5 mm** and **high feed/tooth up to 2 mm/tooth.**

Cutter bodies: Bore type **TXSW15** (*øDc* 50 - 160 mm)



SWMT-MJ

MJ chipbreaker comprises a wide T-land to withstand impact loads.

DOTWIST BALL
TUNGALOY

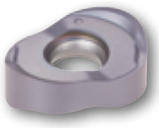
Super high-feed cutter for profile milling with rigid clamping

Ideal tools for 3D machining due to helical cutting edges and anti-rotation feature.

The large clamping screw and twisted contact surface **increase reliability at high feed rates.**

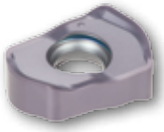
2 types of inserts, **radius type** and **high-feed type,** fit on the same cutter body.

Cutter bodies: Bore type **TXLN** (ø*D*c 40 - 50 mm), Shank type **EXLN** (ø*D*c 20 - 32 mm), Modular type **HXLN** (ø*D*c 20 - 32 mm)
Available in coarse- and close-pitch designs.



LNMX04-R4 MJ & ML

Radius type available in R4 corner radii for profile milling of various materials.



LNMX04-HJ

High-feed type applicable for depths of cut 1.3 mm for high-feed milling.

DOMINIMILL TUNGALOY

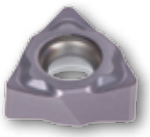
Double-sided positive insert for semi-finishing to finishing

Highly economical insert with 6 cutting edges.

Twisted flank surface provides **positive flank clearance,** improving cutting performance due to large rake angle.

Modular-style endmills with metric and TungMeister threads allow flexibility to be used with various types of shanks and holders in TungHold and TungMeister series.

Cutter bodies: Modular type **HFWX04** (*øDc* 16 - 25 mm)



WXHU-MJ

Available in 2 corner radii:

R0.5 mm suitable for general hard materials with low depth and width of cut.

R1.0 suitable for hardened steel due to improved corner strength.

FINISH BALL NOSE
TUNGALOY

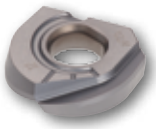
Indexable endmill for high-precision finishing with 2 effective cutting edges

2 types of inserts, **ball nose type** and **radius type,** cover all machining needs in aerospace and die & mold industries.

Fixed screw contact surface directs clamping force to the desired direction, **securing insert clamping.**

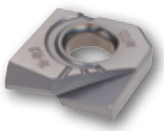
Coolant channels on the insert help deliver **coolant directly to the cutting edge.**

Cutter bodies: Shank type **EBFM** (*øDc* 8 - 32 mm), Modular type **HBFM** (*øDc* 10 - 32 mm)



ZFB-MJ

Suitable for finishing and 3D milling of die & mold. Applicable for a wide range of operations.



ZFR-MJ

Suitable for finishing of die & mold. The cutting edge has a corner radius.

TurnLine

MiniForce-TurnIso-EcoTurnTungTurn-JetTinyMini-TurnCBN

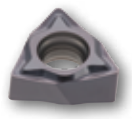
MINI FORCE TURN
TUNGALOY

Economical double-sided insert with sharp cutting edge

Double-sided insert with positive cutting edges.

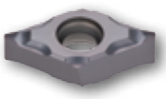
Same insert applicable for both **Bore Line** and **External Line.**
Bore Line: Minimum diameter of ø12 mm.
External Line: Suitable for small parts machining with lower cutting force similar to conventional positive inserts.

Ground insert for highly accurate machining.



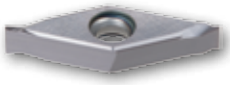
WXGU

80° corner angle
with 6 cutting edges



DXGU

55° corner angle
with 4 cutting edges



VXGU

35° corner angle
with 4 cutting edges

ISO EcoTurn
TUNGALOY

Maximizes profit and minimizes environmental impact

Highly economical insert.

Small-sized inserts save natural resources as well as manufacturing cost.

Same performance as regular-sized inserts.

The performance level in machining with depth of cut up to 3 mm is identical.

ISO-EcoTurn Inserts

Available in popular standard shapes and chipbreakers which are identical to those of regular-sized inserts.

Tools with high-pressure coolant system

Improved productivity with high-pressure coolant supply.

Coolant supplied from two directions reduces flank wear and crater wear, **allowing high-speed machining.**

High-pressure coolant on the cutting edge breaks chips, even in machining difficult-to-cut materials, which is hard to achieve with general external coolant supply.

Reduced crater wear and **increased cutting speed provide highly efficient machining.**

PCLNR/L and **PDJNR/L** for general external turning: 25 mm square shank for regular ISO inserts and **ISO-EcoTurn** inserts.

MiniForce-Turn and **J-series** for external turning on small lathes: 12 mm square shank for **WXGU**, **DXGU**, **VXGU**, **JXGU**, **DCMT**, and **VBMT** inserts.

EasyMulti-Cut and **TetraForce-Cut** for grooving.

Also available for **TungCap**, Tungaloy´s tooling system.

TungCap

TetraForce-Cut

ISO, ISOEco-Turn, & MiniForce-Turn

TINY MINI TURN
TUNGALOY

Solid boring bars for turning small diameters with high precision

Smooth cutting edge for **high-precision machining** provides fine surface finish and prevents edge chipping.

Solid carbide tools with internal **coolant supplied directly to the cutting edge.**

Ground chipbreaker **optimizes chip formation.**

Excellent repeatability of solid bars.

Stability and reliability in tool change.

Reduction in inventory cost: Both ø4 and ø7 mm shanks are applicable for one sleeve.

A wide variety of carbide tools for small-part machining: boring, profiling, chamfering, threading, and grooving.

2 types of sleeves are available for internal coolant supply in general applications.

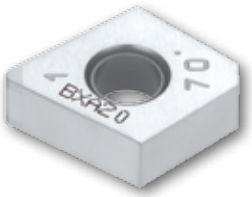
BXA20
TUNGALOY

New coated CBN for hard turning

Long tool life and stable machining ensure accuracy and good surface finish for any hard turning operation

The coating thickness is doubled that of conventional grades for a **maximum durability and performance**

Combined with **GNGA type inserts, a unique 70° corner angle design,** an excellent surface finish and longer tool life are achieved with a low cutting force



GNGA type

Double-sided cutting edge and 70° corner angle for high performance in finishing operations.

GrooveLine

TetraForce-CutTetraMini-CutDuoJust-CutEasyMulti-Cut
TungHeavyGroove

TETRA FORCE CUT
TUNGALOY

Durable and economical tool for grooving and parting-off

Ground insert with **4 cutting edges** for economical machining.

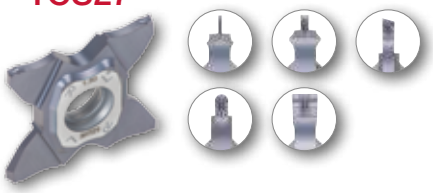
One type of the insert can be used with both right- and left-hand toolholders.

Unique clamping system provides **high insert stability** in cutting and assures **accurate repeatability.**

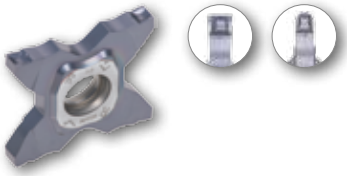
Groove width: 0.5 - 3.18 mm
Max. Groove depth: 1.0 - 6.4 mm
Max. Parting-off diameter: ø2.0 - ø12.8 mm

Square Shank: 10 - 25 mm

TCS27



TCM27



TETRAMINI CUT
TUNGALOY

Accuracy and excellence in surface quality of small parts

Ground insert with **4 cutting edges** for highly accurate grooving operations.

Sharp cutting edge for high accuracy and surface quality.

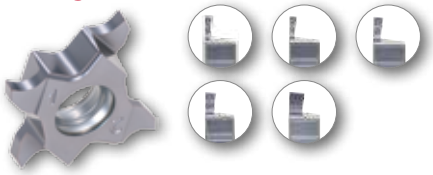
Designed for machining next to shoulder with no interference.

Unique clamping system provides high insert stability in cutting and assures accurate repeatability.

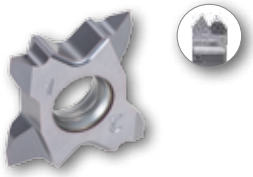
Groove width: 0.33 - 3.0 mm
Max. Groove depth: 0.8 - 2.5 mm
Threading: Thread angle = 60°, Pitch = 0.8 to 3.0 mm, TPI = 32 to 8

Square shank: 10 - 25 mm, **Round shank:** ø14 - ø25.4 mm

TCP



TCT



DUO JUST CUT
TUNGALOY

Stable parting-off operations due to unique clamping system

3 types of inserts are available for various parting-off diameters and can be mounted in the same pocket of the toolholder.

Unique clamping system holds the insert at three points around the insert hole, delivering high rigidity as well as stability in machining.

The insert´s sharp cutting edge reduces cutting force and provides **high-quality machined surface.**

2 types of toolholders:
Sub-spindle type (Square shank): 10 - 12 mm
Regular type (Square shank): 10, 12, 16, and 20 mm

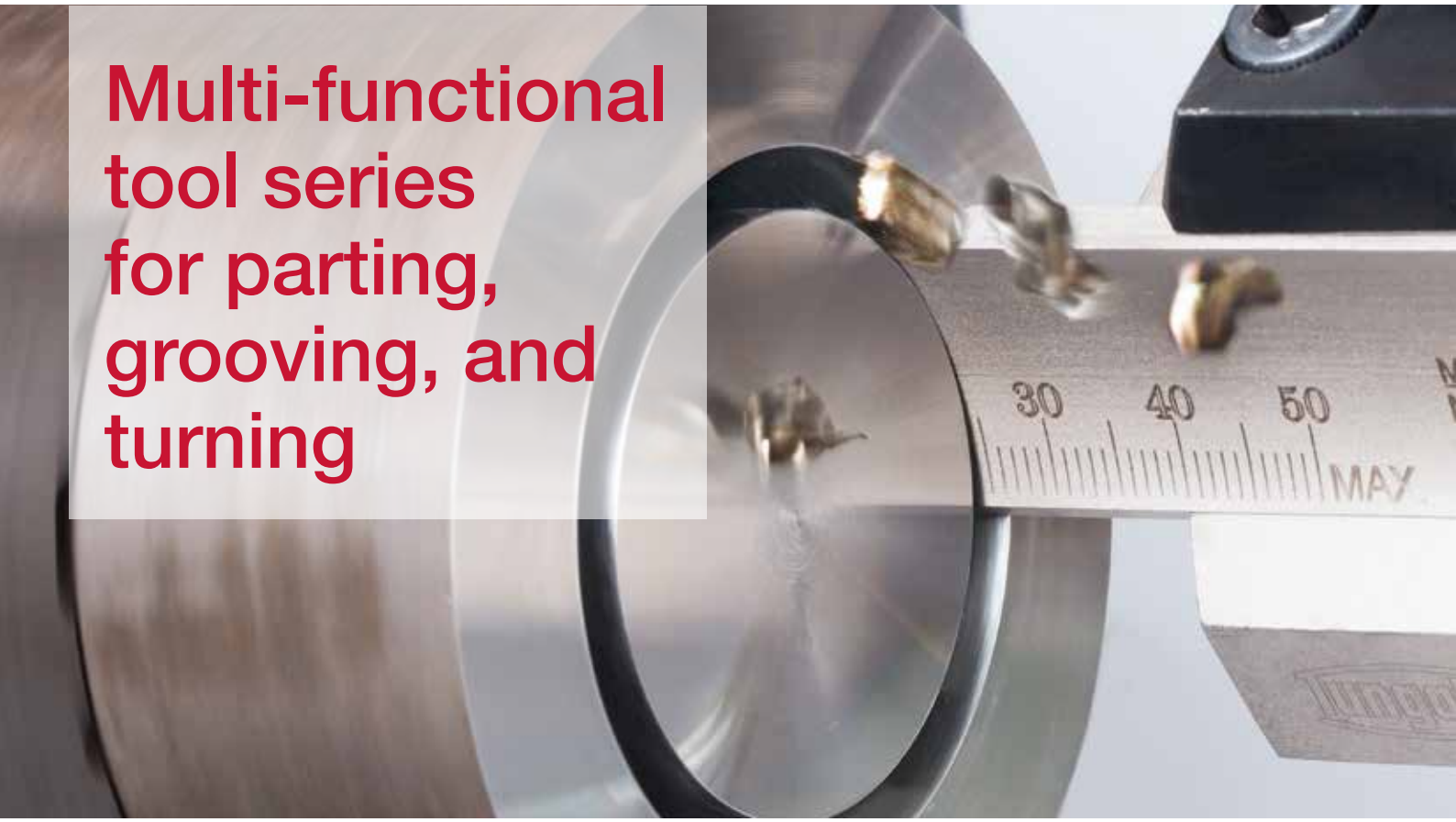
JXPG06
Max. parting-off dia. ø6 mm

JXPG12
Max. parting-off dia. ø12 mm

JXPG16
Max. parting-off dia. ø16 mm

EASY MULTI CUT
TUNGALOY

Multi-functional tool series for parting, grooving, and turning



Unique self-clamping system.

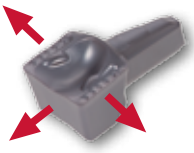
One type of the insert can be used for **parting-off, external / internal / face grooving, and turning applications.**

The tool´s top shape does not block the chip evacuation out from the groove.

CHP type tools with internal coolant supply provides **high wear resistance, excellent surface finish,** and smooth chip evacuation.

Adjustable face blades: Developed for face grooving from *øD* 30 to 500 mm.

Applicable overhang length: 18 to 65 mm set only by changing the blade positions.



ETX

Grooving & Turning
Width: 4, 5, 6 mm

EGM

Grooving & Parting-off
Width: 4 mm

Highly rigid clamping for wide grooving and profiling

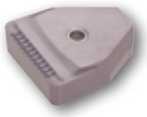
Easy insert clamp operated at the front.

Open tool design provides a **clear path for chip evacuation.**

2 types of toolholders: **Lever-lock type** and **screw-on type**
Shank size: 12 - 40 mm

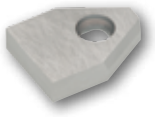
PSGM

Groove width: 10 - 25 mm



PSGB

Groove width: 10 - 25 mm



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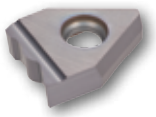


(example of a special insert)

DrilLine

DrillForce-MeisterDrillMeisterTungSix-DrillTungDrill-Big
DeepTri-Drill

DRILLFORCE MEISTER
TUNGALOY

Head-changeable drill for large-diameter holemaking

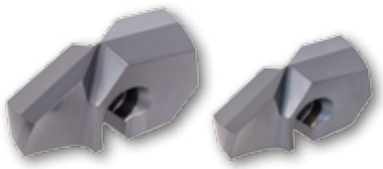
Large-diameter head-changeable **drill with 2 effective cutting edges** provides high productivity.

The drill body has an optimized flute design for **smooth chip evacuation and enhanced stiffness improving reliability.**

Unique unidirectional insert clamping and head concentricity improve indexing accuracy.

Drill bodies:
TIS flange type: Available in L/D 3 and 5
Each drill body is applicable for cutting heads in the diameter range of 1 mm.

Drill head: SMP... *øDc*: ø26 - ø41 mm



SMP...

Diameters from 26.0 to 41.0 mm are available in popular size increments for major applications.

DRILLMEISTER
TUNGALOY

Drill with head-changeable system

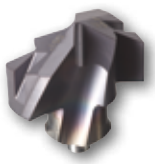
Excellent chip formation due to the **optimized insert geometry** leads to smooth chip evacuation.

Dovetail clamping structure improves clamping **rigidity as well as reliability** and also simplifies the setup of the inserts.

High-precision holes as those of solid drills.

Drill bodies:
TID flange type: Available in L/D 1.5, 3, 5, 8, and 12
(L/D 12 to be used in collets or hydrogrips)
TIDC straight type: Suitable for using with TIDCF chamfer holders
TIDCF chamfer holder: 3 types of inserts in chamfering angle 30°, 45°, and 60°

Drill head: DMP... *øDc*: ø10 - ø25.9 mm in the increment of 0.1 mm



DMP

Chamfering adaptor

TUNGSIX-DRILL

TUNGALOY

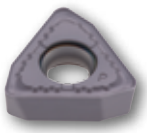
Indexable drill with 6-cutting-edged insert for high productivity

Double-sided insert with 6 cutting edges.

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

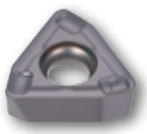
Twisted coolant holes allow the cross section of flutes to be large and increase coolant volume.

Drill bodies:
TDS: Available in L/D 2, 3, and 4
***øDc*:** ø20 - ø54 mm



WWMU-DJ

Size: 05,06, 07, 08, 09, 11, and 13
DJ: Well-designed and suited for general steel, cast iron, and hard materials.



WWMU-DS

Size: 05,06, 07, 08, 09, 11, and 13
DS: The first choice for mild steel, such as stainless steel and low carbon steel.

TUNGDRILLBIG
TUNGALOY

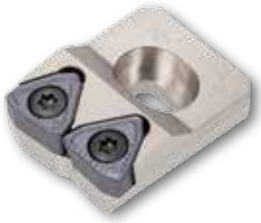
Large-diameter drill with adjustable cartridges

Highly rigid body and optimized insert position.

Cartridge system allows tool diameters to be adjusted.

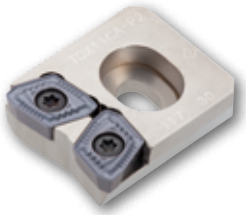
TDX and **TDS type cartridges** can be mounted on the same body, allowing easy tool selection depending on the application.

Drill bodies:
TDB: L/D 2.5
***øDc*:** ø55 - ø80 mm



TDS type

Double-sided insert with
6 cutting edges



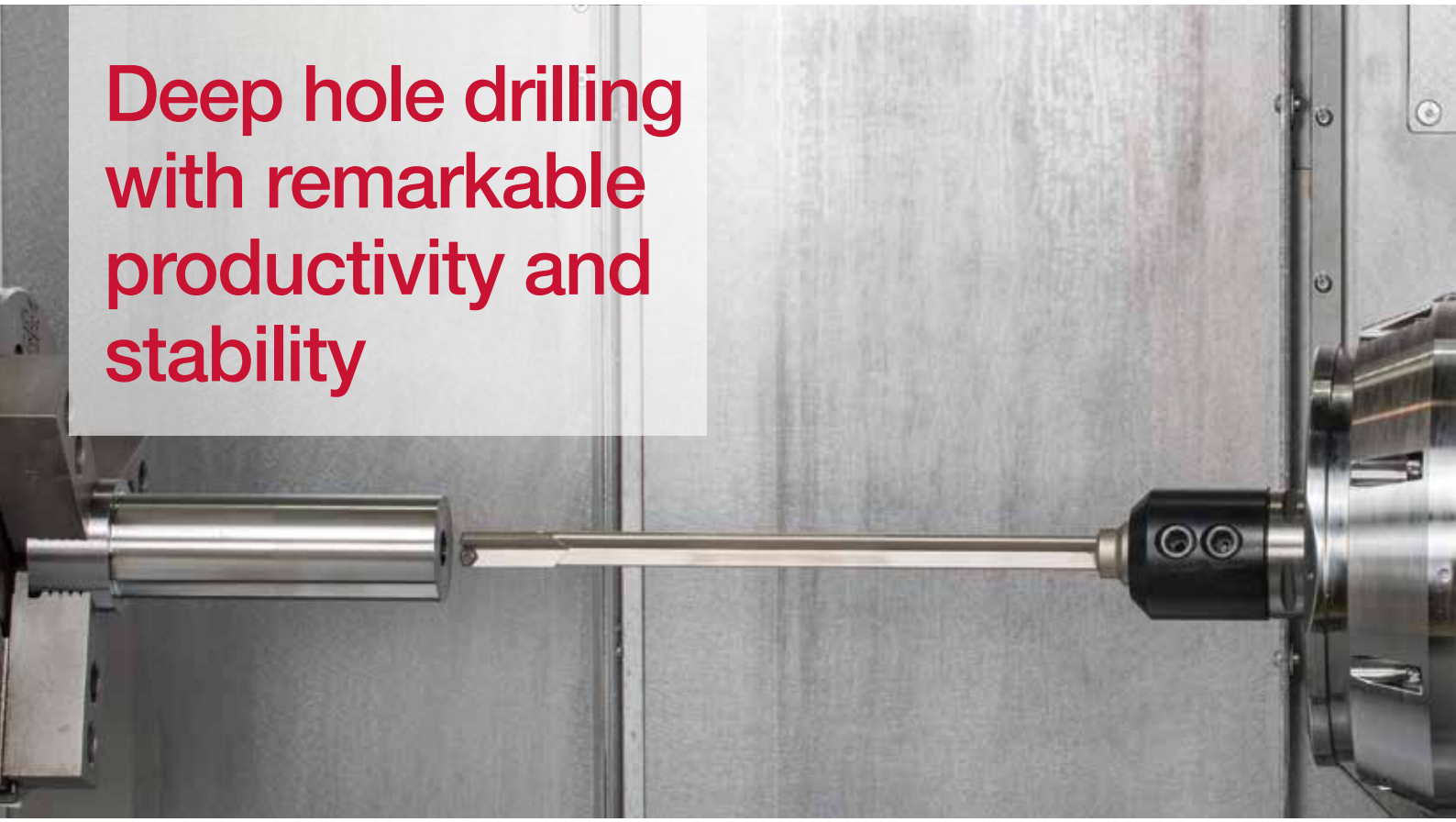
TDX type

Single-sided insert with
4 cutting edges

Plates to adjust the diameter

DEEP TRI DRILL
TUNGALOY

Deep hole drilling with remarkable productivity and stability



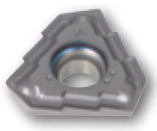
Economical 3-cutting-edged indexable insert with chip splitter.

Chip splitters produce small chips for smooth evacuation, reducing cutting force and allowing **increased feed rate** compared to brazed gundrills.

Drill bodies for lathes, machining centers, and gundrill machines:
MCTR... for machining centers: Stocked in L/D 10, 15, and 25 for drilling depths 170 to 700 mm depending on the diameter.
TRLG... for gundrill machines: Offered up to the length of 1500 mm which is 90 times as long as the diameter of drilling depth.
Also available in a variety of drill holding drivers for different types of gundrill machines.

Guide pad **GP06...:** Equipped with 2 usable edges.

***øDc*:** ø16 - ø28 mm



TOHT...
Available in 5 sizes to cover *øDc* 16 to 28 mm

ToolLine

TungCapSpinJet

TUNGCAP
TUNGALOY

Quick change system with polygon PSC coupling tooling

Rigid clamping mechanism resists bending force.

High repeatability due to taper and face contact.

Polygonal clamping design for self centering effect.

Easy tool management suitable for a variety of applications.

Short tool-change time.

SPINJET
TUNGALOY

Transform the existing machine into a high-speed machine

Outstanding productivity on existing machines due to **high-speed rotation.**

Appropriate cutting conditions and reduced heat with coolant jet flow achieve **long tool life and stable machining for small-diameter tools.**

Tools rotate only with coolant pressure, and the machine spindle is idle while SpinJet is in operation.

Wireless RPM monitoring system.

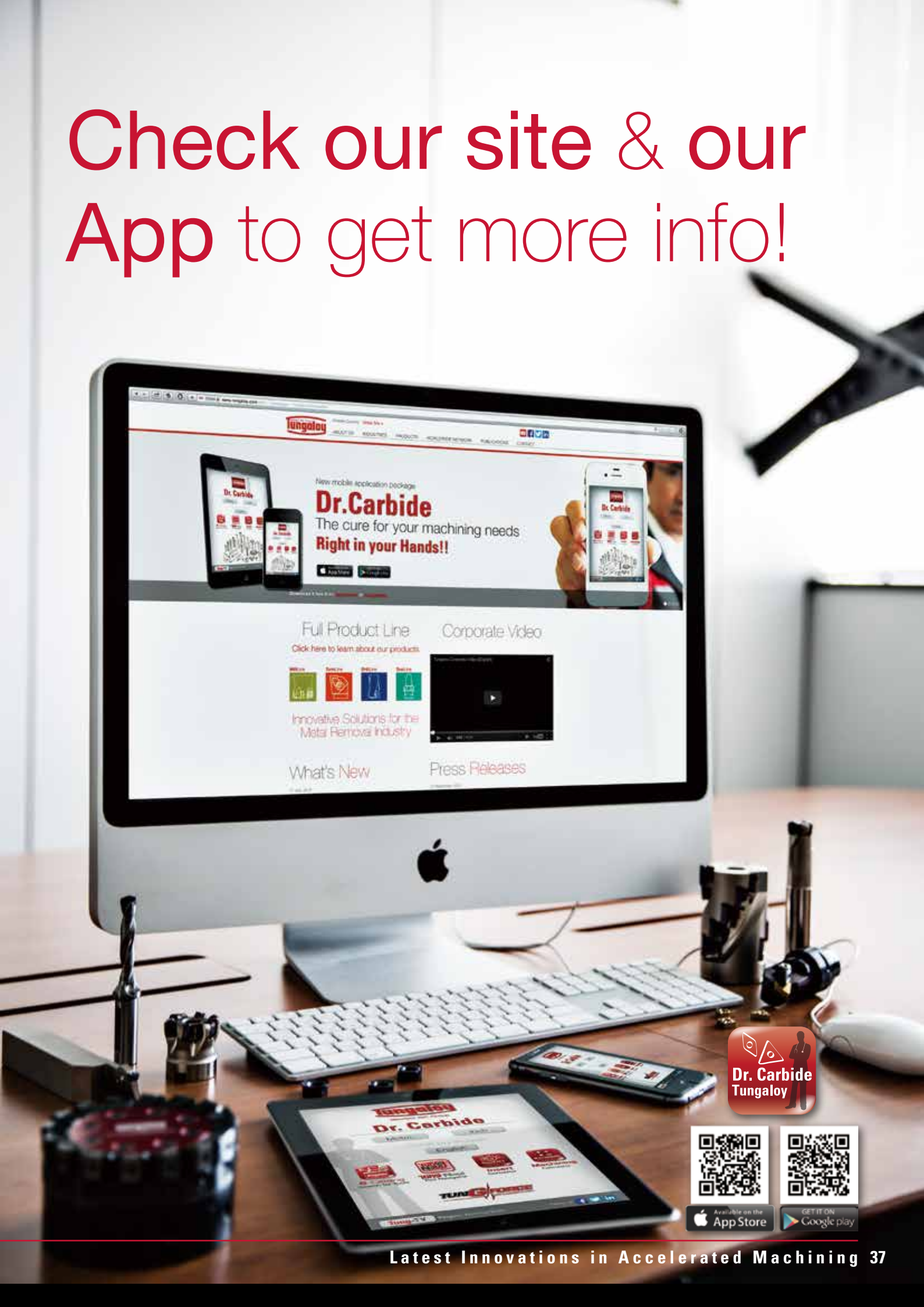
Maximum 60,000 RPM (when coolant pressure is 4 MPa).

Applicable on a **wide variety of machines.**

High-speed machining with remarkable efficiency on all machines.

Suitable for a wide range of applications.

Check our site & our App to get more info!



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