KORLOY | Since 1966

KORLOY Highlight Product

Contents

GRADE

TURNING

MILLING

INDEXABLE DRILL

SOLID ENDMILL

SOLID DRILL

TAP

KORLOY GUIDE

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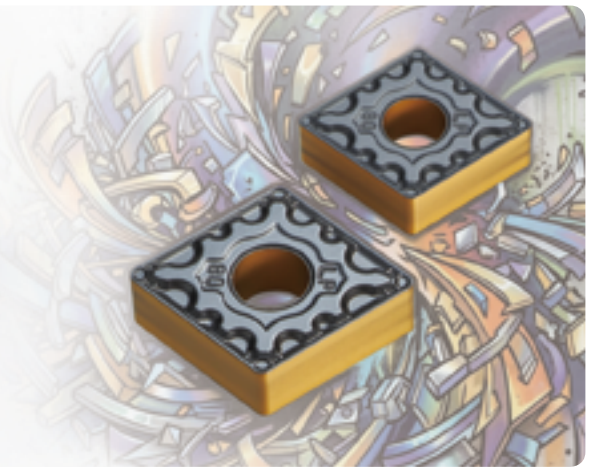
NC3205/NC3215 NC3225/NC3235

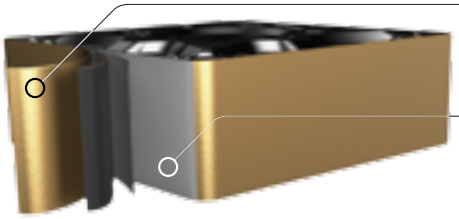
CVD insert series for Steel Turning

- Applied the new CVD coating to increase in productivity and stable tool life
- Applied optimal substrate in cutting range (P05, P15, P25, P35)



Features

» New CVD coating and substrate increasing stability



CVD coating with increased wear resistance and chipping resistance

- Ensured stable tool life due to increase wear resistance, chipping resistance and heat resistance

High toughness and heat resistance substrate

- Exclusive substrate per each grade increasing tool life

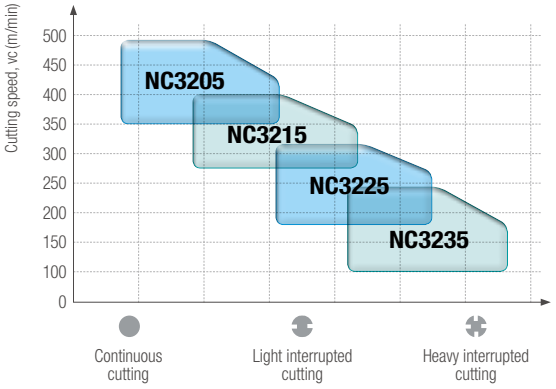
» Highly lubricative coating with fine surface finish application

[NC3205, NC3235]

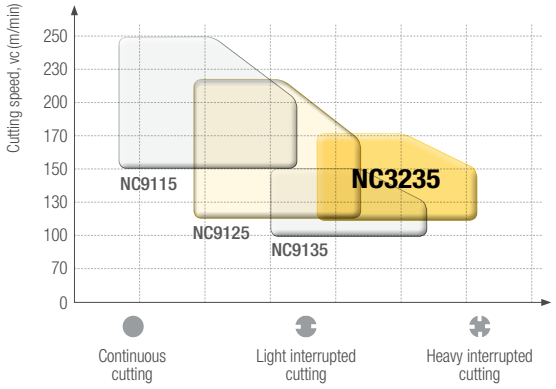
[Existing grade]

Application range

P Steel

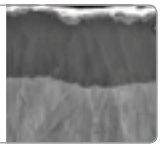


M Stainless Steel



NC3205

- High cutting performance in high speed and continuous cutting
- Good wear resistance

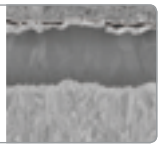


NC3225

- High cutting performance in medium speed and medium interrupted cutting
- 1st recommended grade

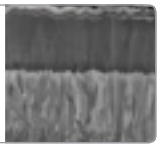
NC3215

- High cutting performance in medium to high speed and light interrupted cutting
- Good wear resistance and heat resistance



NC3235

- High cutting performance in medium to low speed and heavy interrupted cutting
- Good chipping resistance and fracture resistance



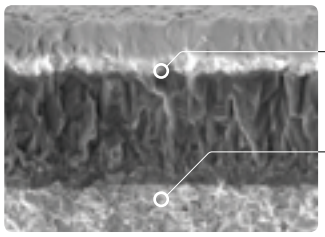
NC5320

Universal insert for Steel and Cast Iron cutting

- Applied exclusive substrate for Steel and Cast Iron and New CVD coating with great wear resistance
- Applied New CVD coating technology with better BUE resistance and chipping resistance than existing grades

Features

» New CVD coating with increased wear resistance and chipping resistance



{ Applied α-phase alumina coating, optimal structured universal CVD coating → Increased chipping resistance

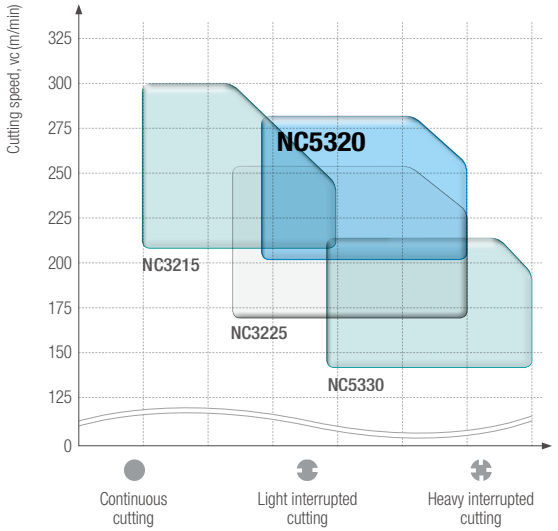
{ Optimal substrate for Steel and Cast Iron cutting with good wear resistance → Increased wear resistance

» Increased surface finish due to applying New CVD coating

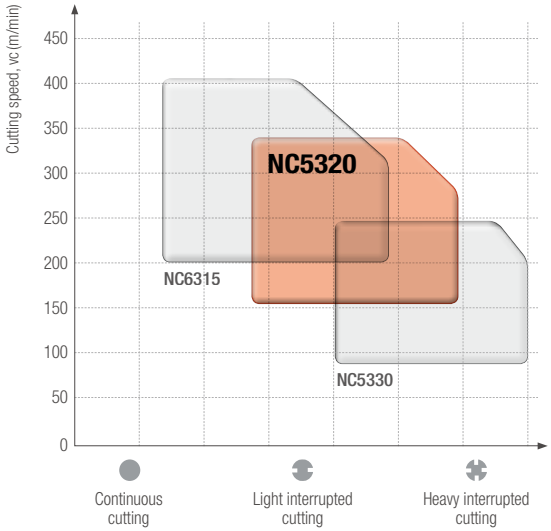
[NC5320] [Existing grade]

Application range

P Steel



K Cast Iron



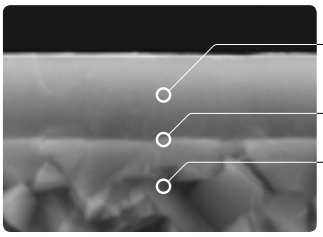
PC8105/PC8115

Turning inserts for HRSA and Titanium alloys

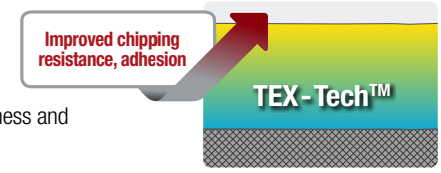
- High-hardness PVD grade optimally designed for machining HRSA
- Applied a substrate optimized for the machining area (S05, S15)
- Applied high-toughness PVD coating technology, TEX-Tech™, which prevents chipping and sudden fracture
- Applied EnduraCore-Process™ enhances the plastic deformation resistance and fracture resistance of the high-hardness substrate

Features

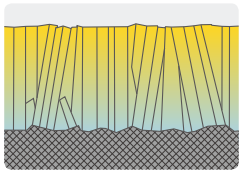
» TEX-Tech™ - High toughness PVD coating layer technology



- Good chipping resistance due to high toughness and high elasticity coating layer
- Enhanced adherence by high adherence coating layer
- Excellent high-temperature wear resistance achieved by applying a highhardness and high-toughness substrate



[PC8105 / PC8115]

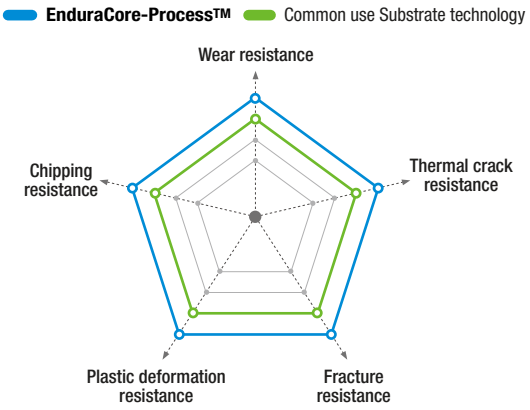


[Existing grade]

» EnduraCore-Process™ - Application of substrate toughening process technology

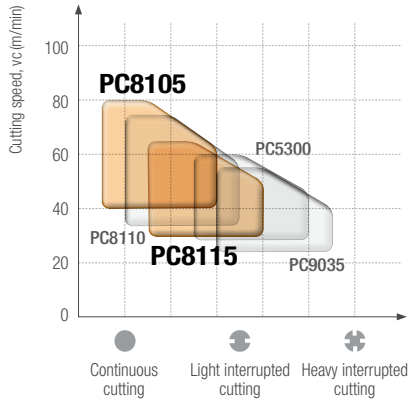
EnduraCore-Process™	Comparison of Substrate technologies

- Enhanced plastic deformation resistance of the substrate through optimized alloying elements and content.
- Improved strength of the substrate by realizing an alloy structure with uniform grain size.

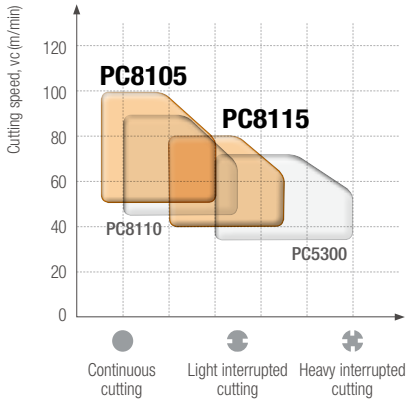


Application range

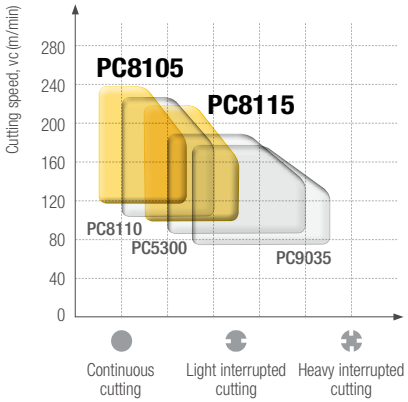
S HRSA



S Titanium alloy



M Stainless steel



CC1015/CC1025

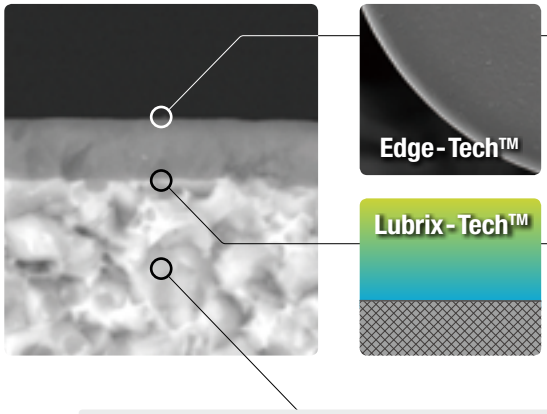
PVD Cermet for Steel Turning

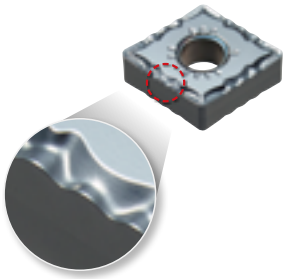
- PVD coated Cermet turning grade optimally designed for various small and medium parts.
- Stable tool life by applying Lubrix-Tech™ (high hardness and lubrication PVD coating technology) to increase flank wear resistance on nose radius
- Smooth cutting surface by applying Edge-Tech™ (high lubrication cutting edge treatment technology) to prevent welding and chipping

INFO

Features

» Exclusive PVD Lubrix-Tech™ and Edge-Tech™ technology





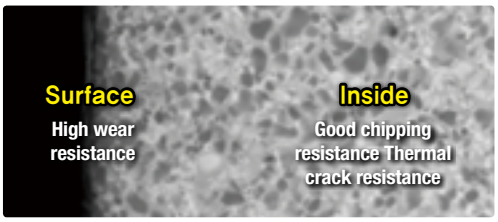
Edge-Tech™

- High lubrication cutting edge treatment technology
- Reducing welding, chipping and unexpected fracture and increasing tool life and stability

Lubrix-Tech™

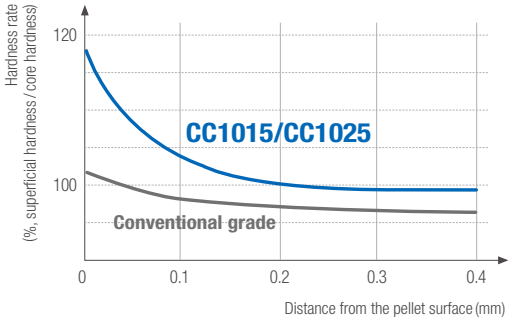
- AlCrN series high hardness lubrication coating technology
- Coating layer's growth direction controlling technology

Inclination functional substrate



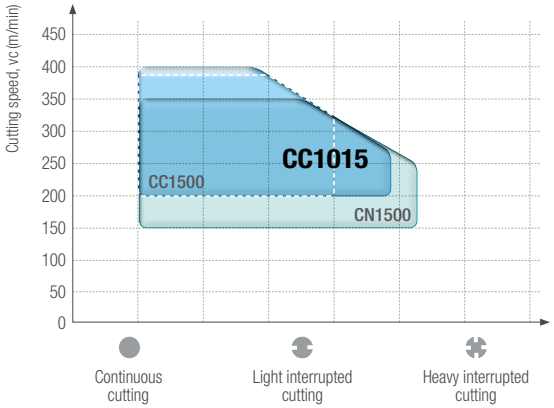
- Inclination functional layer creation with the surface and internal composition's microstructure control
- High chipping resistance and stable tool life

Hardness rate comparison chart

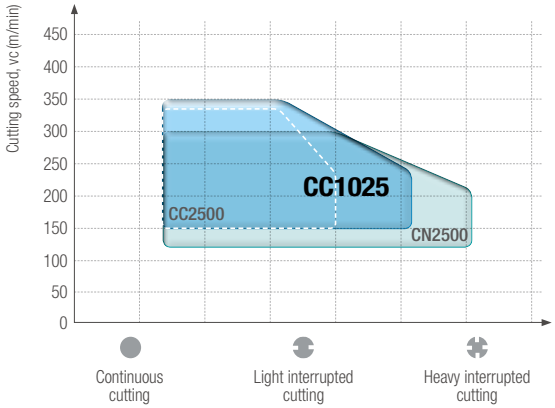


Application range

P Steel



P Steel



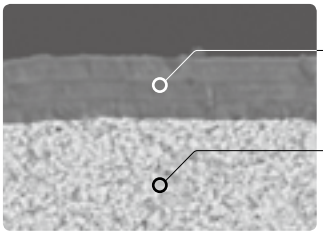
PC3700

Milling grade specialized for Steel

- Excellent chip removal rate due to a tough substrate specialized for Steel, and lubricative PVD coating of high-hardness
- A high chipping-resistant grade to minimize deviation and extend tool life under various cutting conditions

Features

» Substrate for general milling applications of Steel and PVD coating treatment



Stronger resistance to welding and chipping due to the multi-layer coating technology with high hardness and lubricating treatment

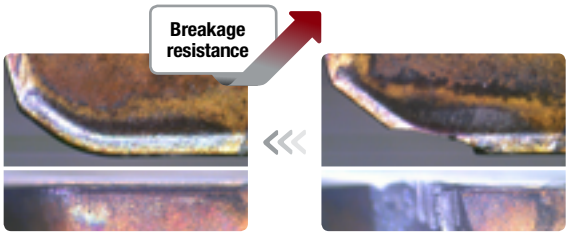
Ensures machinability due to wear and breakage resistant materials optimized for milling applications of steel

Excellent wear resistance and stable tool life

» Special coating surface treatment

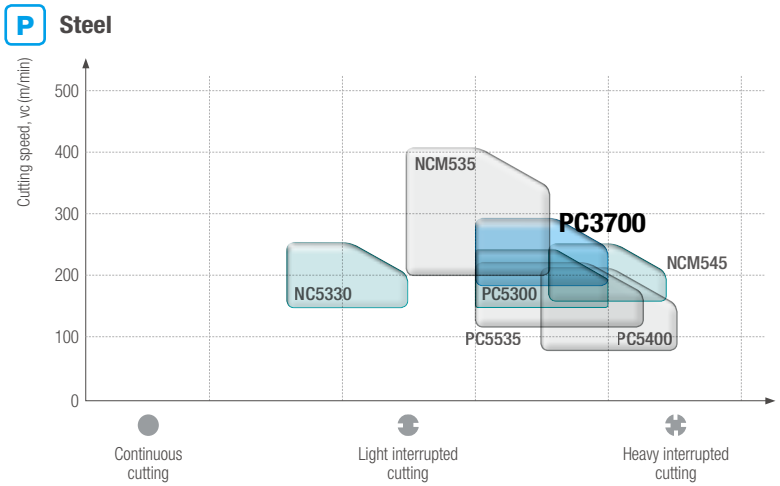
» Smooth surface due to special surface treatment » Smooth chip evacuation, improved chipping resistance and surface finish of the workpiece

[PC3700] [Existing products]



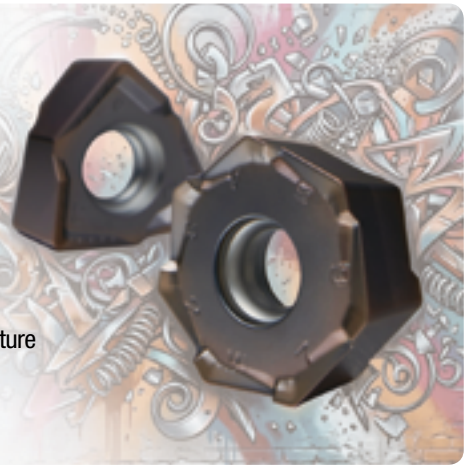
[PC3700] [Competitor]

Application range



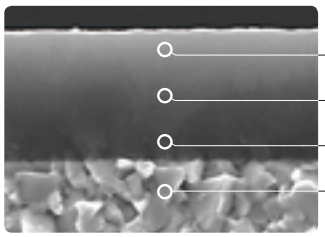
PC6100

PVD insert for cast Iron Milling



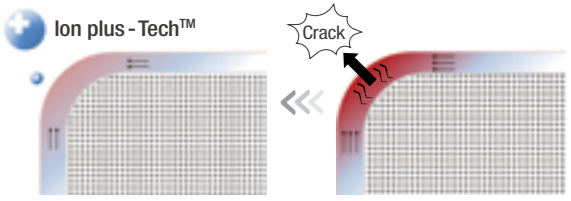
- Optimally designed PVD coating grade in cast Iron milling
- Applied Ion plus - Tech™ increased hardness and adherence of layer ensures wear resistance and thermal crack resistance
- Coating surface treatment technology prevents chipping and unexpected fracture
- The optimal substrate for cast Iron cutting enhances wear resistance and fracture resistance

Features



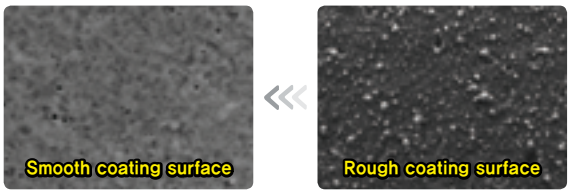
- Applied coating technology to reinforce high hardness of cutting edge
- Applied coating layer with high heat resistance
- Reinforced adhesion on the cutting edge
- Applied optimal materials with wear resistance and impact resistance for cast Iron cutting

» Applied Ion plus - Tech™



[Ion plus - Tech™] [Existing technology]

» Applied smooth coating surface treatment technology

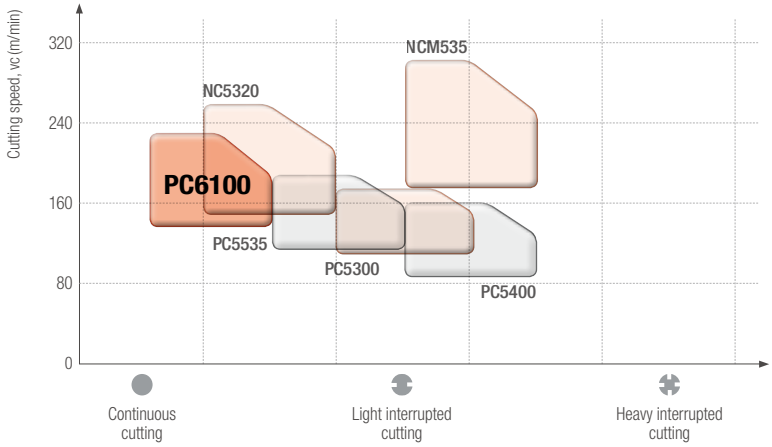


[PC6100] [Existing grade]

* Ion plus - Tech™ : Exclusive PVD plasma coating reinforced technology increases adherence of layer and hardness

Application range

K Cast Iron

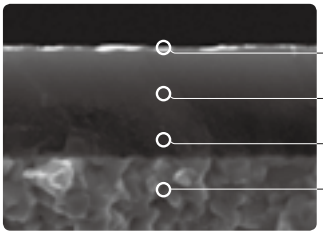


PC9540

PVD insert for Stainless Steel and Titanium Milling

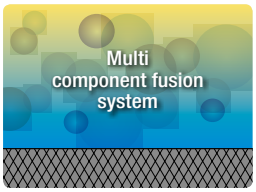
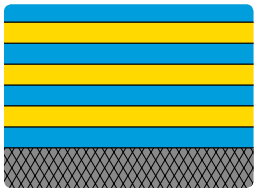
- Optimal PVD grade for medium to rough cutting and highly interrupted milling in Stainless Steel and Titanium
- Applied Omega-Tech™ which enhances the wear resistance, oxidation resistance, and welding resistance of PVD coating film
- Improved plastic deformation resistance and fracture resistance of the substrate by applying high-toughness substrate process technology
- Stable machinability by preventing welding and chipping due to applying special coating surface treatment

Features



- Improved surface finish
- Applied exclusive PVD fusion coating technology
- Increased adherence between substrate and coating layer
- Applied high-toughness substrate process technology

» Application of PVD fusion coating technology

Omega-Tech™	Existing and common use coating technology
	
[Omega-Tech™]	[Existing technology]
• One strong coating layer unifying various components • Enhanced general use and cutting performance due to increased mechanical and chemical stability	• Combination and laminating of coating layers, Tin, TiAlN, AlTiN, AlCrN and etc. • Limit of general use and adherence

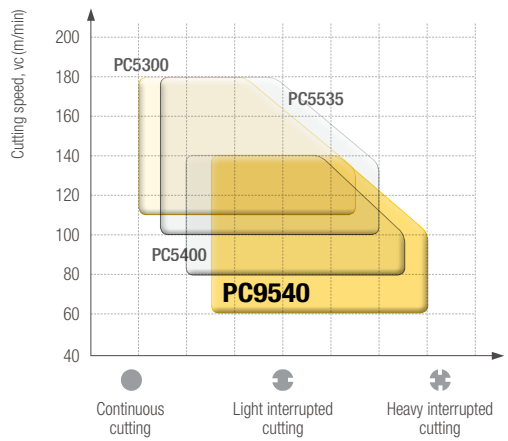
» Application of substrate toughening process technology

EnduraCore-Process™

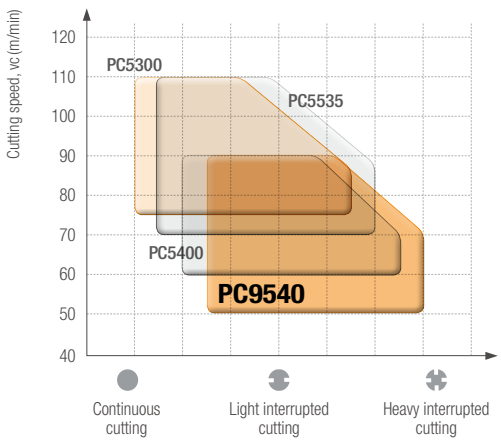
- Enhanced plastic deformation resistance of the substance through optimized alloying elements and content.
- Improved strength of the substance by realizing an alloy structure with uniform grain size.

Application range

M Stainless Steel



S HRSA



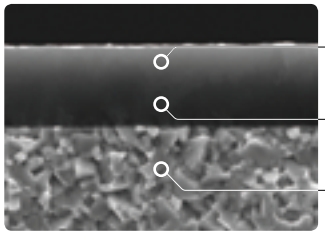
PC5535

PVD insert for general Milling

- General use due to high toughness substrate with balance of wear resistance and toughness
- Maximized tool life by applying the Omega-Tech™ overcoming primary troubles in Milling
- Achieved stable cutting by implementing Edge-Tech™ and preventing welding, chipping and unexpected fracture

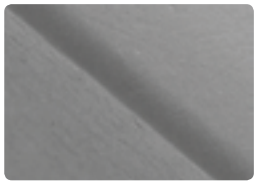
Features

» Omega-Tech™ - applying PVD fusion coating technology

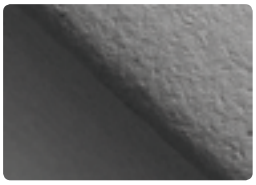


- Maximized coating performance by applying exclusive PVD fusion coating technology
- Increased adherence between substrate and coating layer with the application of newly designed layer
- Fine substrate with balance of wear resistance and toughness

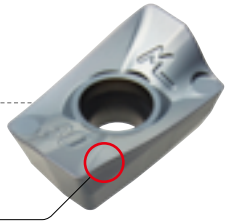
» Edge-tech™ - applying high lubricated edge technology



[PC5535]



[Competitor]

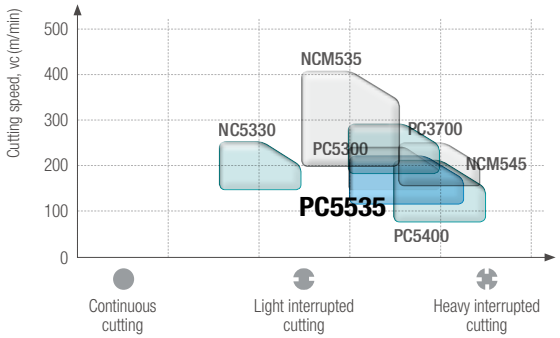


Edge - Tech™

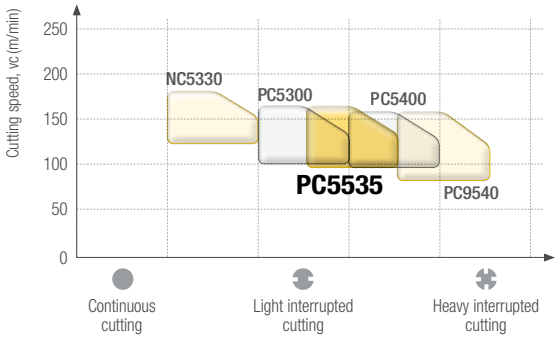
- Prevents welding, chipping and unexpected fracture
- Longer tool life and stable cutting

Application range

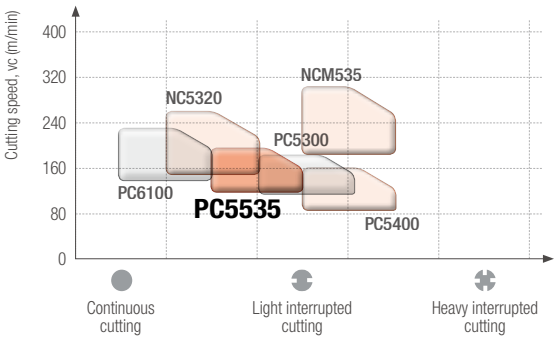
P Steel



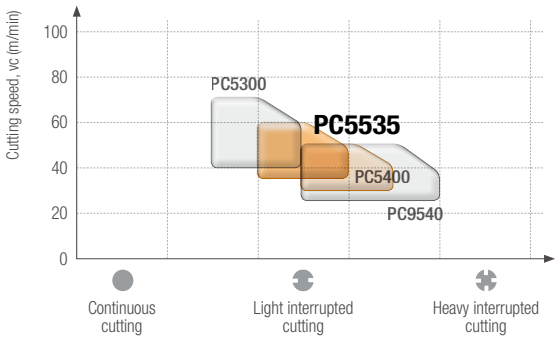
M Stainless Steel



K Cast Iron



S HRSA



SNC805/SPC810

Super Coating Series

- **SNC805** : Ultra-fine substrate and CVD coatings are applied to enhance the performance at the high speed machining and wear resistance
- **SPC810** : Ultra-fine substrate and PVD coatings are applied to enhance the performance at the high speed machining and chipping resistance

Features

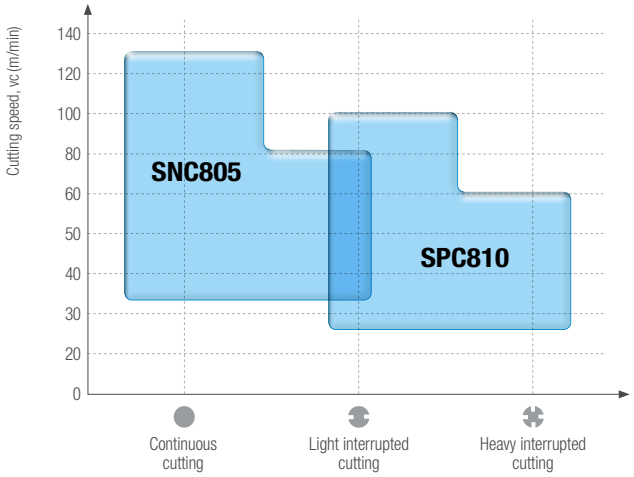
SNC805(CVD)	SPC810(PVD)
	

» Chip breaker line-up

Range	Negative type		Positive type	R Positive type
	HRSA	**Aerospace** (Engine parts)	**HRSA**	**Aerospace** (Engine parts)
Roughing	VP4	-	-	RSA
Medium to Roughing	MM	GSA	-	GSA
Medium	VP3	MSA	MU	-
Medium to Finishing	VP2	LSA	-	-
Finishing	-	-	LU	FSA

Application range

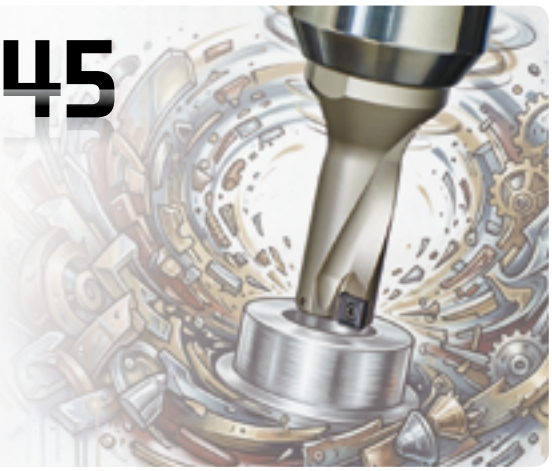
- Improve productivity via high speed processing of Inconel, Hastelloy, Titanium alloy, Precipitation hardening Stainless Steel, and etc.



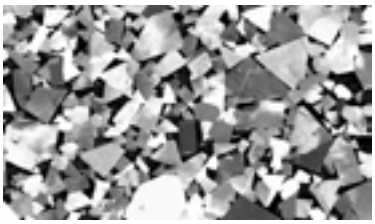
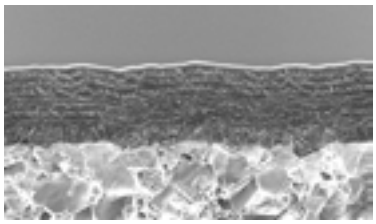
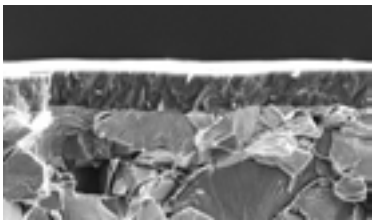
SNC840/SPC845

Super Coating Series

- Achieves high-speed machining of difficult-to-cut materials by maximizing the bond strength and heat resistance of the substrate
- Provides stable tool life in various machining environments through the application of Super Coating

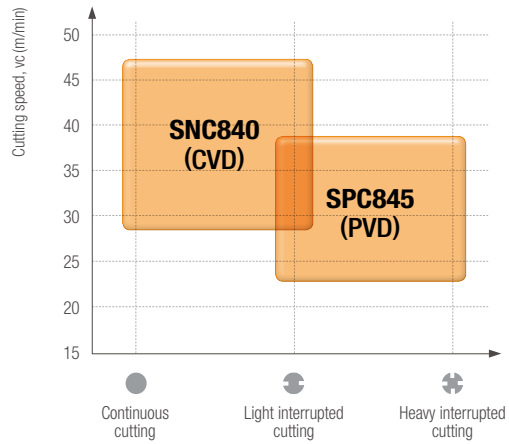


Features

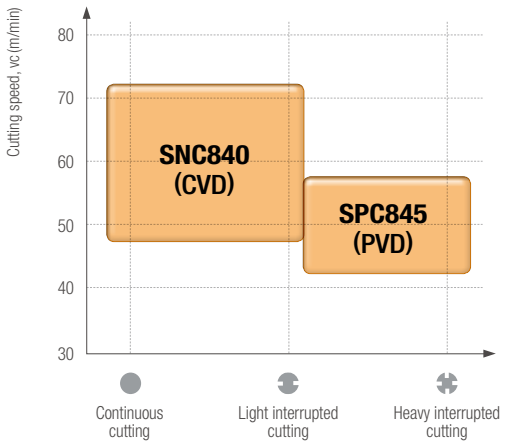
Substrate	SNC Coating (CVD)	SPC Coating (PVD)
Enhanced bond strength/ heat resistance	Applied CVD multi layer	Applied high toughness PVD coating
		
	[**CVD :** Enhanced wear resistance]	[**PVD :** Enhanced fracture and impact resistance]

Application range

S Inconel alloy



S Titaninum alloy



Turning

- Hexa Blade
- Auto Tools
- Saw Man-X
- FP Chip Breaker
- FM Chip Breaker
- Auto Tools KGT-H
- Auto Tools Nega Type

Hexa Blade

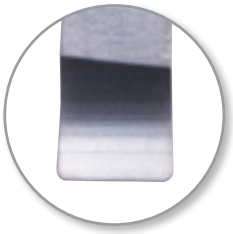
Grooving and parting tool with precision 6 corners

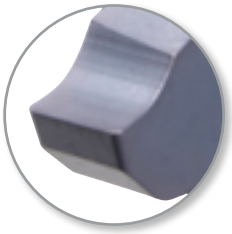
- Grooving and parting tool with high economical 6 corners
- Increased reliability and stability in cutting due to high qualified cutting edge

Features

Hexa Blade 19 (P chip breaker)

- Universal chip breaker usable for various work materials
- Excellent cutting performance and superior surface finish achieved through sharp cutting edges





Precision grade (sharp edge) insert

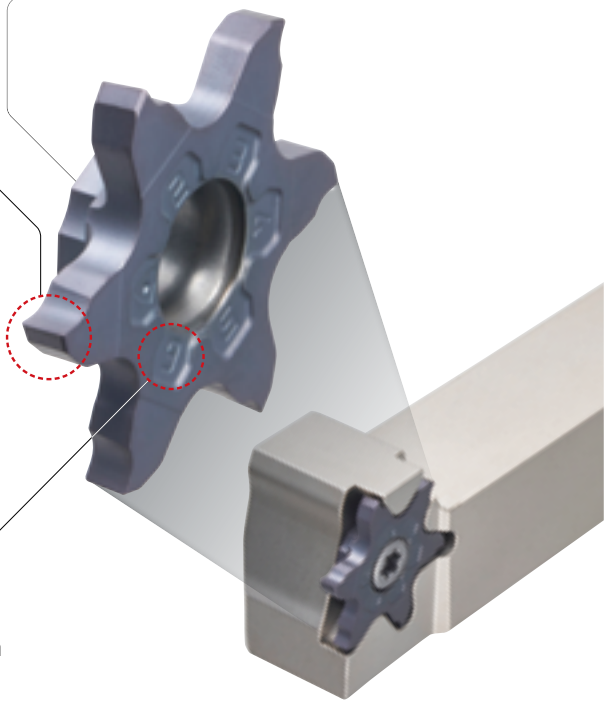
- Excellent dimensional quality
- Superior cutting performance
- Reduced dimensional variation between corners
- Consistent cutting performance

Provides "zero offset" when clamped in the holder

- Left and right-hand inserts
- Grooving and parting operations for automatic lathes

Wide lateral clamping surface

- Increased clamping stability
- Enhanced stability during automatic lathe machining
- Reliable tool life



6-cornered Insert

- Offers high economic efficiency through multi-corner utilization

Type

HB19
Cutting width : 0.75 ~ 3.18 mm

HB27
Cutting width : 1.78 ~ 4 mm

HBEHR/L19 (High pressure coolant / VDI type)
Shank height : 12, 16 mm

HBEHR/L27 (High pressure coolant / VDI type)
Shank height : 16, 20, 25 mm

Hexa Blade 27 (M chip breaker)

- Dot-typed chip breaker general cutting for various workpieces
- Good chip control preventing long chip and chip curling
- Stable cutting even in high feed cutting due to strengthened cutting edge structure

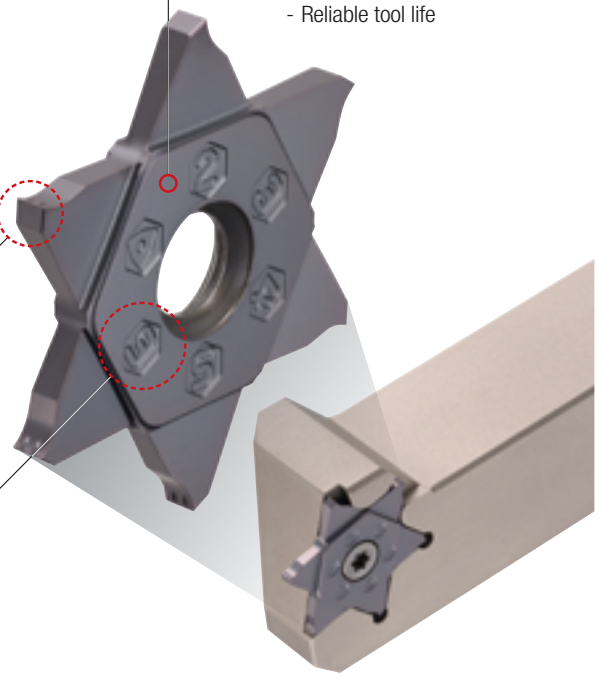
Precision insert
- Superior quality in dimensions
- Excellent corner dimension deviation management
- Equally stable performance

Strong cutting edge
- Increased high feed cutting performance

Neutral hand
- Convenient use with neutral hand

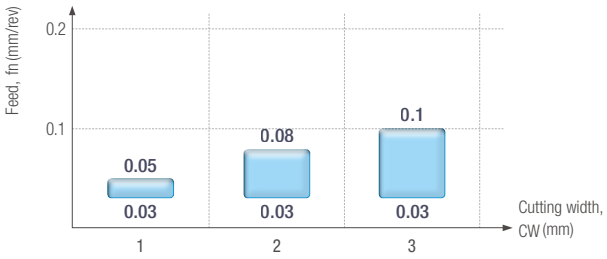
6 cornered insert
- High cost efficiency from multi-corners

Wide clamping area
- More stable clamping system
- Strengthen anti-vibration during machining
- Reliable tool life

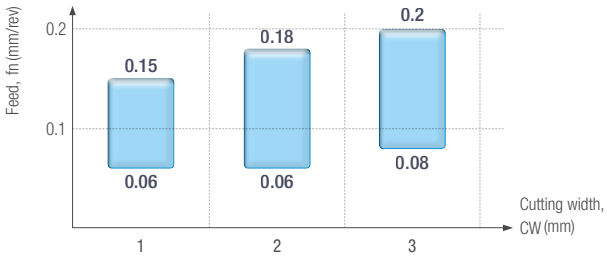


Application range

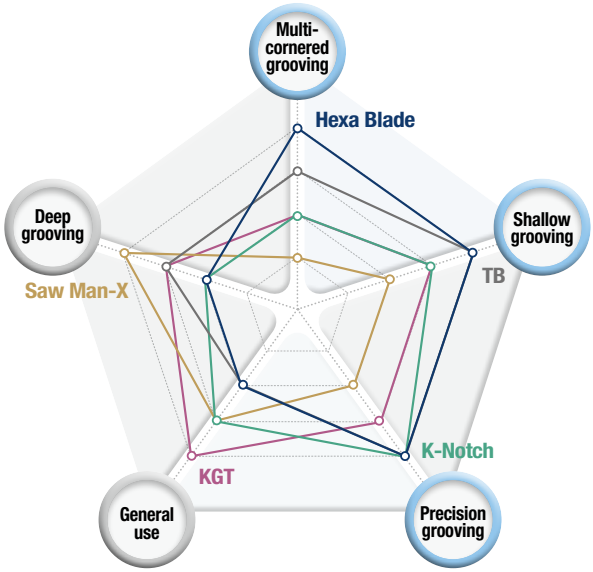
Hexa Blade 19



Hexa Blade 27



Tool selection guide



Tools	Multi-cornered grooving	Shallow grooving	Precision grooving	General use	Deep grooving
Hexa Blade	★★★★	★★★★	★★★★	★★	★★
TB	★★★	★★★★	★★★★	★★	★★★
K-Notch	★★	★★★	★★★★	★★★	★★
KGT	★★	★★★	★★★	★★★★	★★★
Saw Man-X	★	★★	★★	★★★	★★★★

Auto Tools

Auto Tools

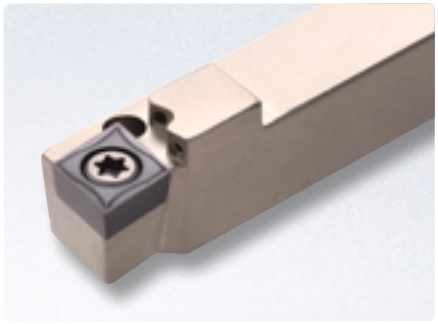
- High quality products through stable machining
- Exclusive insert for automatic lathes

ISO type

- Precision R shape using negative tolerance for the nose radius
- Tolerance grade that does not require tool adjustment due to accurate cutting edge height
- Sharp cutting edge for excellent chip control and surface finish with low cutting forces

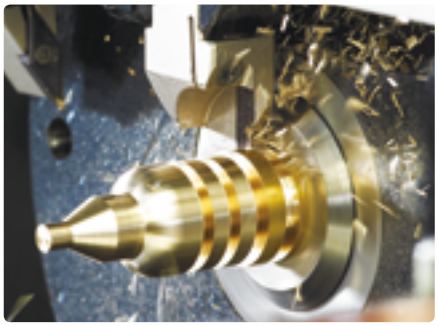
KHP Coolant

- 240% increased in productivity on Inconel machining vs. low pressure coolant system
- Cooling, tool life, and chip control are improved by the high pressure coolant multi-directional injection system



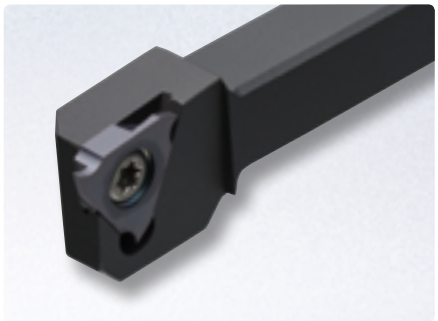
KGT/MGT+

- Grooving insert for automatic lathes
- Dedicated holders for automatic lathes
- Cost-effective due to use of double-edged inserts



TBGF

- Economical 3-cornered insert for precision grooving with small diameter
- High precision machining by applying precision ground class insert
- Optimal for automatic machining from stable chip control in TBGF grooving

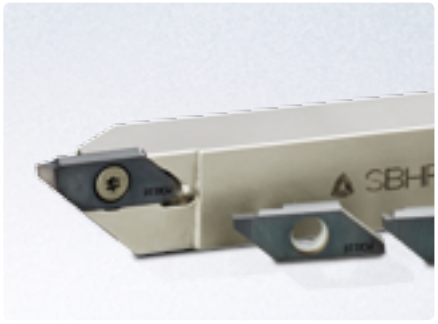


Multi-functional type

- For outer diameter machining of small precision parts
- Five insert types: SB(back-turning), SG(grooving), ST(threading), SC(cutting-off), SGB(grooving & back)
- All inserts are applicable on a single holder for convenience

Small Blade

- Blade insert for automatic lathes
- For external machining of precise small parts
- Four types of inserts: SBB(back-turning), SBG(grooving), SBT(threading), SBC(cutting-off)

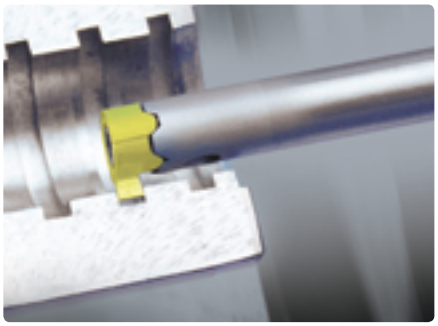


MSB / MSB+

- High hardness grade guarantees longer tool life
- Various kinds of machining (Fitting, Valve, Medical parts, Automobile component, and Semiconductor equipment) are available
- Various types of MSB tools (Boring, Grooving, Threading)

Fine Tools

- Insert shape suitable for small-diameter machining with high-rigidity clamping structure
- Six types of inserts compatible to a single Type-1 holder, enabling versatile machining
- Optimal tool life ensured by various combinations of carbide grades and thin-film coatings



W-Star Drill

- Economical carbide coated solid drill
- Better cutting performance with an improved thinning shape which reduces cutting load
- High rigidity and good chip evacuation from the optimal designed flute

Saw Man-X

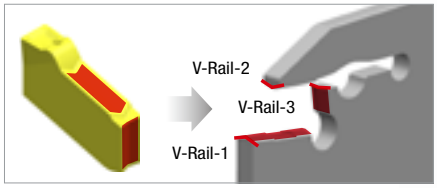
A solution for Parting and deep Grooving

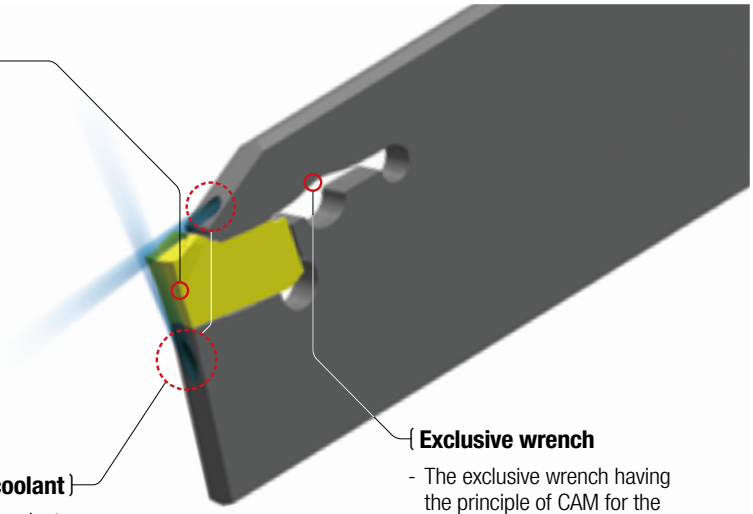
- Stable machining in deep grooving applying clamping system with strong three-way V-Rail
- Clamping precision improved, and inserts can be replaced conveniently using the exclusive wrench.

Features

Three-way V-Rail

- Tightly clamped insert in the tip seat
- Increased stability by minimized vibration during the machining
- Available for stable high speed, high feed and high depth of cut machining





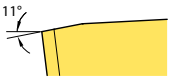
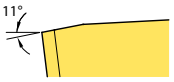
Internal spraying of 2 channel high pressure coolant

- Direct spraying of cutting edge coolant for effective coolant
- Longer tool life in HRSA cutting
  (*need for exclusive blade and block for high pressure coolant)

Exclusive wrench

- The exclusive wrench having the principle of CAM for the Saw Man-X
- More convenient clamping system

» Chip breaker features

Type	Shape	Cutting edge	Features
N Chip breaker			• 1st recommended in Steel and Cast Iron cutting • Negative land cutting edge • For interrupted and high feed cutting
S Chip breaker			• 1st recommended in Stainless Steel and HRSA cutting • Sharp cutting edge • For high speed and continuous cutting
N Chip breaker (Lead angle type)			• Optimal for pipe and round bar cutting • Negative land cutting edge applying lead angle • Minimized burr and size of PIP

Type

Insert
Cutting width : 2, 3, 4, 5, 6 mm

Blade
Blade height : 26, 32 mm

Blade [High pressure coolant blade]
Blade height : 26 mm

Shank
Shank height : 16, 20, 25 mm

Block
Block height : 26, 32 mm
high pressure coolant block
Block height : 26 mm

FP Chip Breaker

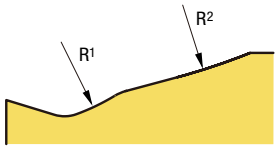
Negative Turning Insert for Steel
(Ultra finishing Type with Enhanced Chip Control)

- Two-step concave chip breaker shape enables effective chip control from low to high depths of cut within the finishing range
- Stable chip control is possible in small depths of cut (smaller than nose R), tapering and copying
- Sharp edge and side rake angle result in excellent surface finish and reduced cutting forces

Features

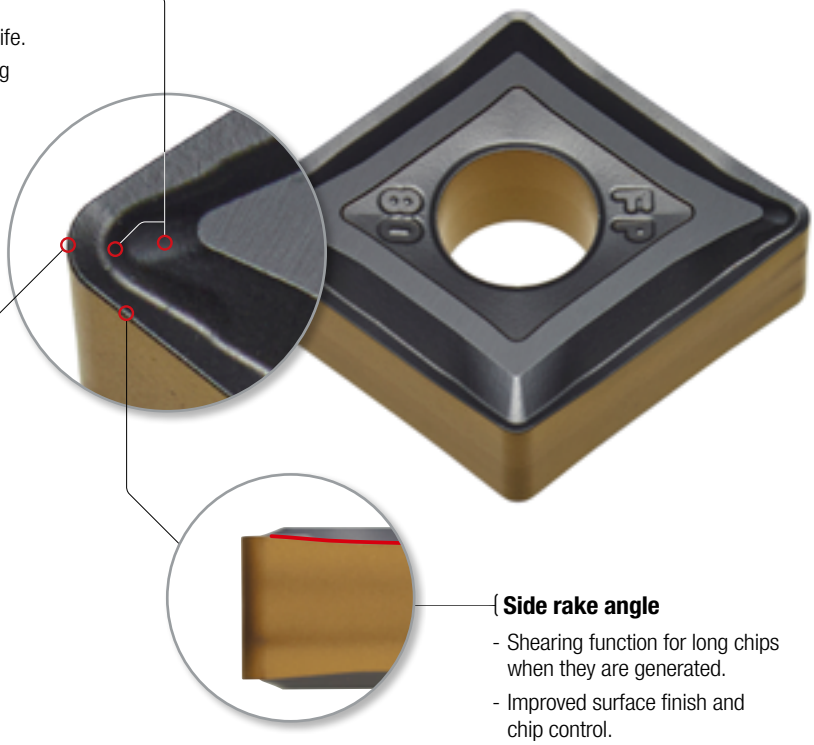
Two-step chip breaker

- Effective chip control from ultra finishing to finishing applications.
- Optimized design for improving flank wear life.
- Optimized first-step chip breaker for copying and taper machining.



Sharp cutting edge

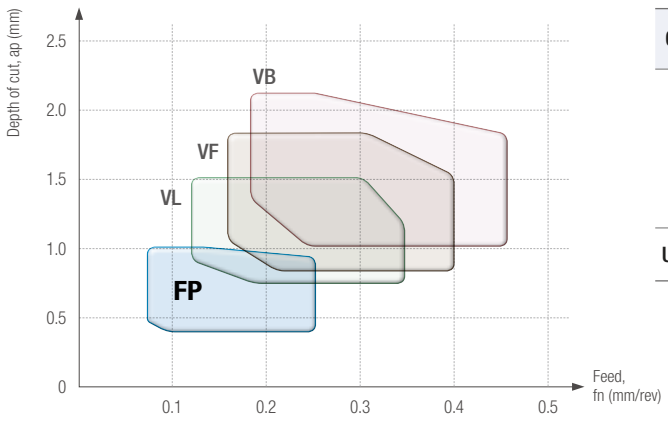
- Reduced cutting load
- High surface finish



Side rake angle

- Shearing function for long chips when they are generated.
- Improved surface finish and chip control.

Application range



Cutting range	Chip breaker	ap (mm)	fn (mm/rev)
Finishing	VB	1 ~ 2	0.18 ~ 0.45
	VF	0.8 ~ 1.8	0.15 ~ 0.4
	VL	0.7 ~ 1.5	0.12 ~ 0.35
Ultra finishing	FP	0.3 ~ 1	0.08 ~ 0.25

FM Chip Breaker

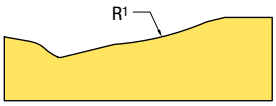
Negative Turning Insert for Stainless steel

- Tool life improved due to optimized cutting edge that delays adhesion and a geometry that suppresses adhesion spreading.
- Stable chip management in the finishing area with a side V-shaped cutting edge and concave projection structure
- Increased chipping and breakage resistance at the engagement boundary by increasing rigidity at this section
- Maximized heat dissipation through an optimized cutting edge geometry for coolant inflow (coolant guide)

Features

Concave projection

- Prevents chip entanglement between the workpiece and the tool through smooth chip evacuation

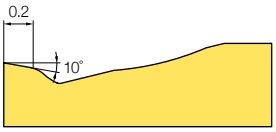


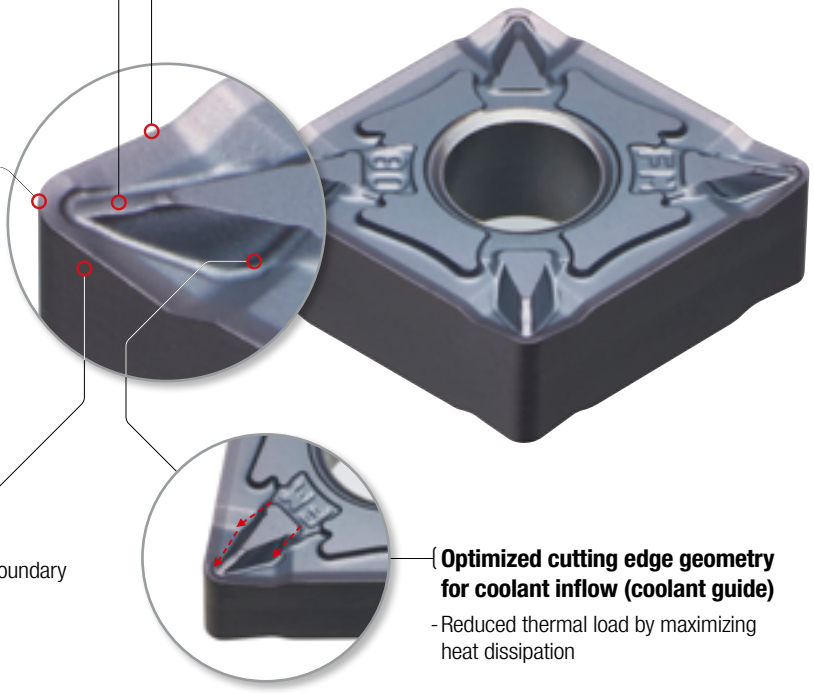
Side V-shaped cutting edge

- Ensures stable chip control even in the challenging low-feed / low-depth-of cut range

Optimized cutting edge & geometry for suppressing adhesion propagation

- Delays in adhesion occurrence
- Suppression of adhesion spreading





Variable land, increased rigidity at the engagement boundary

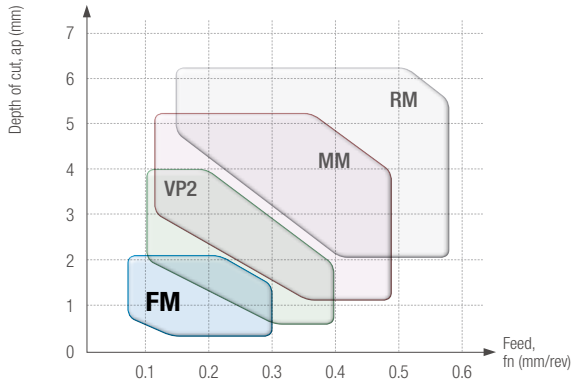
- Prevents from chipping / breakage at the boundary
- Excellent surface finish due to enhanced cutting edge durability

Optimized cutting edge geometry for coolant inflow (coolant guide)

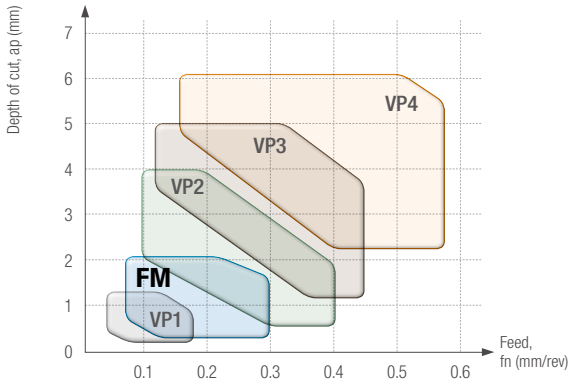
- Reduced thermal load by maximizing heat dissipation

Application range

M Stainless steel



S HRSA



Auto Tools KGT-H

2-Edge Grooving and Parting Tool with High Machining Stability

- High-rigidity geometry and a strong clamping system ensure excellent machining stability and dimensional accuracy under demanding cutting conditions.
- A wide range of chipbreakers is available, allowing to select optimum chip breaker for maximum performance according to machining conditions.

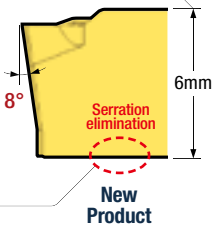
Coming soon

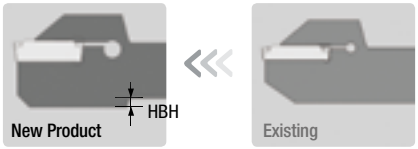
Features

Increased insert thickness
- Improved rigidity through a 38% increase in insert thickness compared to the conventional type
- Prevents insert fracture even under high cutting conditions

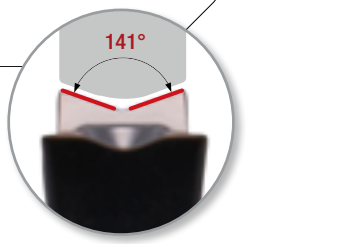
Increased front relief angle (7° → 8°)
- Improved cutting performance
- Reduced flank wear

Elimination of insert serration
- Prevents holder indentation by eliminating the bottom serration
- Improved holder durability





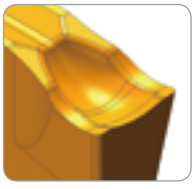
Increased lower thickness of holder head (HBH)
- Improved holder rigidity by reinforcing the lower section of the holder head



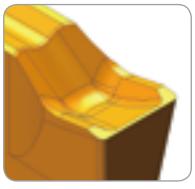
V-Groove angle correction (142° → 141°)
- Improved clamping stability through increased contact area by optimizing the insert angle

Improved KGT V-Groove design
- Prevents insert drop-out during mounting by applying an R-shaped geometry
- Enhanced clamping stability through increased contact area by minimizing angular clearance between the insert and holder

» Features of Chip breaker



L Light grooving
- For Grooving and Parting
- Concave cutting edge
- Concave rake surface
- Low hardness workpiece
- Small diameter part cutting



R Rough grooving
- For Grooving and Parting
- Straight cutting edge
- Hard cutting edge
- High hardness workpiece
- For high feed cutting

T Turning and grooving
- For Grooving, Cutting and Parting
- Straight cutting edge
- Concave bump
- For various workpiece cutting
- Good chip control

TL Turning and grooving in Low feed
- For Grooving, Cutting and Parting
- Concave cutting edge
- Concave bump
- For HRSA cutting
- Good chip control

Type

Insert
Cutting width : 1.5, 2.0, 2.5, 3.0mm

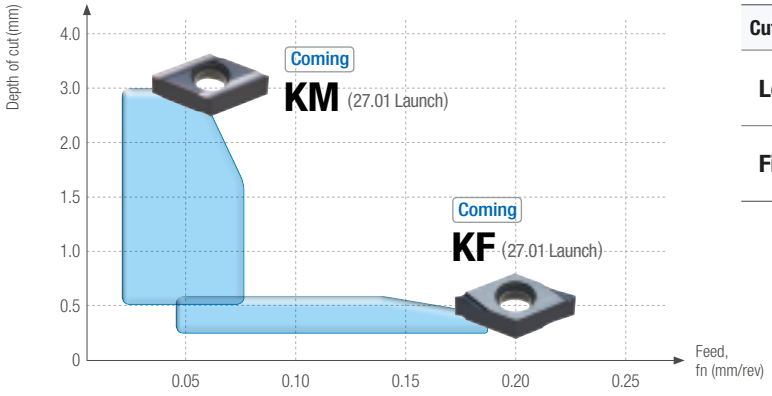
Shank
Shank Height : 10, 12, 16mm

Auto Tools Nega Type

Automatic lathe insert (KM/KF)

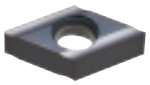
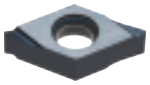
- Small negative-type double-sided insert provides high cost efficiency and stable 4-corner usability.
- Delivers the same sharp cutting edge performance as conventional positive-type inserts.
- High-rigidity geometry and strong clamping force ensure stable machining under high cutting conditions.

Cutting range



Cutting range	Chip breaker	ap(mm)	fn(mm/rev)
Low feed	KM	0.5~3.0	0.02~0.08
Finishing	KF	0.1~0.5	0.05~0.15

Features

No.	Chip breaker	Shape	Feature
1	KM		• Primary recommended chipbreaker for high depth-of-cut machining • Excellent chip control under low-feed conditions • Low cutting resistance type
2	KF		• Primary recommended chipbreaker for finishing • Sharp cutting edge and excellent surface finish

Code system

C	N	G	U	07	03	02	M	F	R	-	KM

- **Insert shape**
- **Relief angle**
- **Tolerance**
- **Cross-sectional shape**
- **IC**
- **Cutting edge height**
- **Nose R Size**
- **Nose R Tolerance**
  M : Negative tolerance
- **Cutting Edge**
  F : Sharp edge
  E : Honed edge
  T : Negative land
  S : Negative land + honed edge
- **Hand of Insert**
  R : Right-hand
  L : Left-hand
  N : Neutral
- **Chip breaker**

How to Use Inserts with Negative Tolerance Corner Radius (Re)

When an undercut corner radius is specified on the machining drawing as shown in Fig. 1, using an insert with a corner radius (Re) of 0.2 mm may result in a larger corner radius than required. In such cases, an insert with a negative tolerance corner radius (Re) should be used.

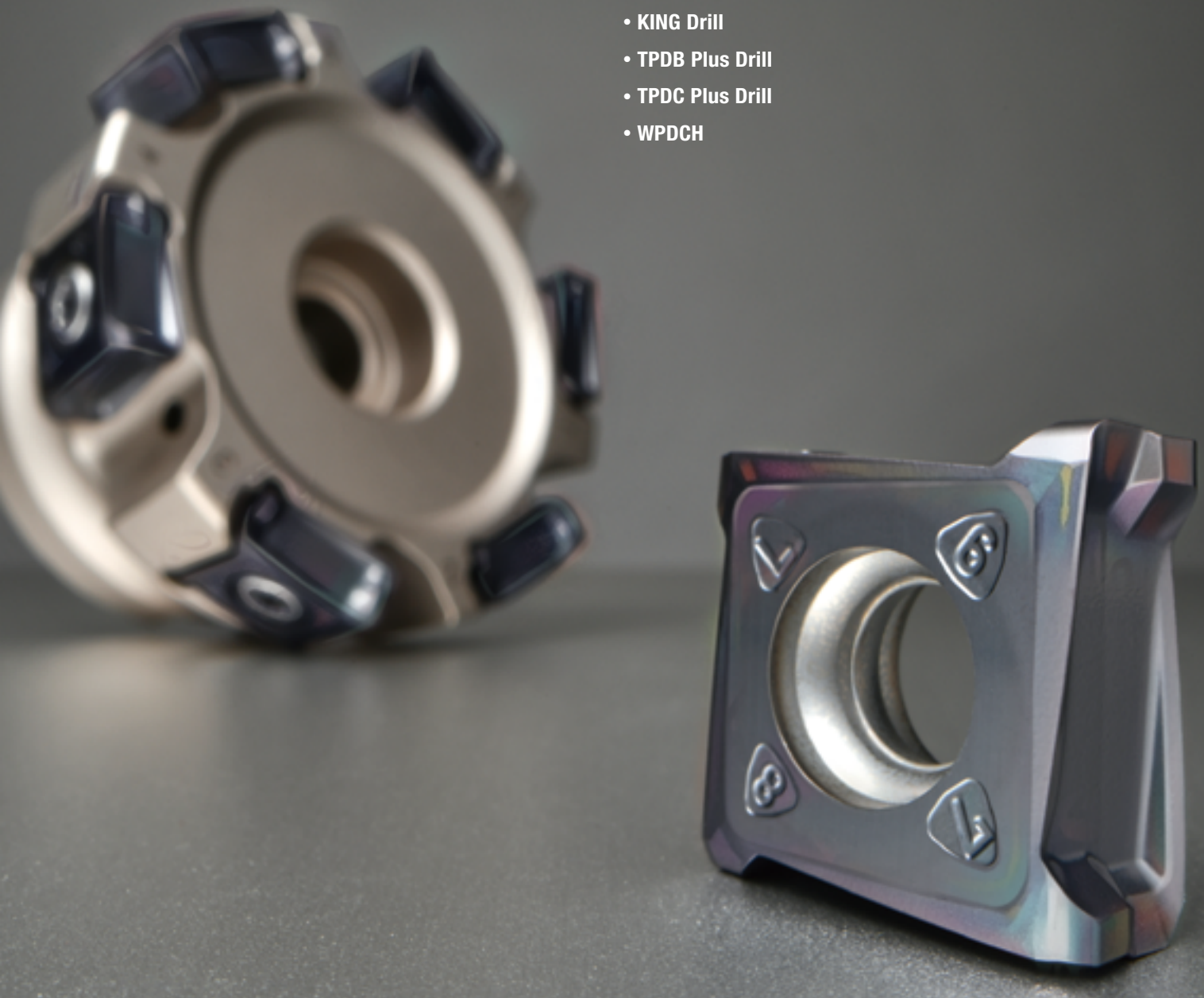
Rotating

MILLING

- TP4P
- TP8P
- Alpha Mill-X
- Rich Mill Series
- HQM
- HFMD
- RMR

INDEXABLE DRILL

- KING Drill
- TPDB Plus Drill
- TPDC Plus Drill
- WPDCH



INFO

TP4P

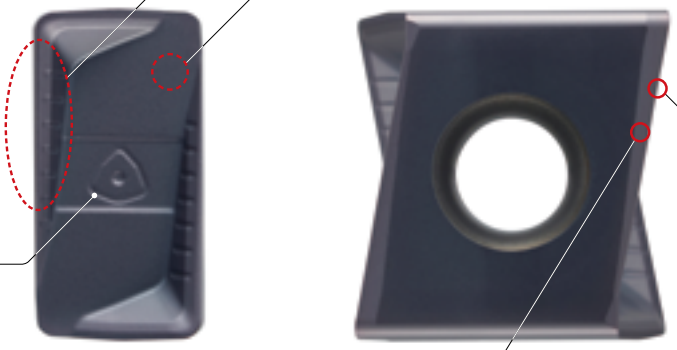
Tangential Double - Sided 4 - Corner Shoulder Milling Tool

- High depth-of-cut (up to 12mm) shoulder milling by high helix chip-breaking double-sided inserts
- Enhanced productivity through strong clamping force of the tangential type and multi-insert application

Features

Heat dispersion chip breaker Structure
- Installation of multiple dimples
- Prevents from thermal cracks and Increases tool life

Excellent clamping stability
- Ensures a large clamping surface area

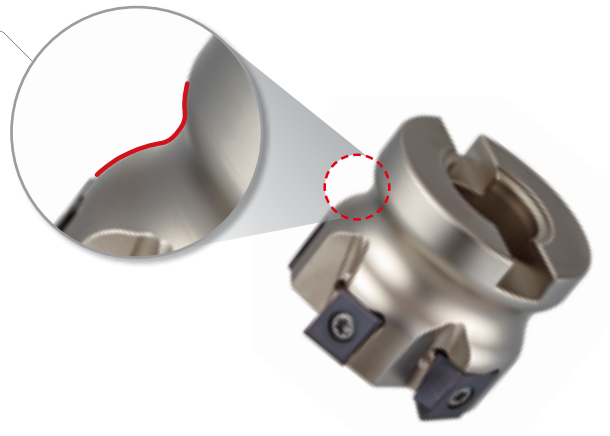


KORLOY Identity Symbol Mark

Reinforced cutting edge geometry
- Double negative-positive edge structure
- Improved chipping resistance and prevention of sudden breakage

High depth-of-cut structure and optimized perpendicularity
- APMX 12 mm
- Perpendicularity within 30㎛

Streamlined holder structure
- Smooth chip evacuation



Type

TP4PCM-LN13 (Single-edge)
Ø50 ~ Ø80

TP4PC(M)-LN13 (Multi-edge)
Ø40 ~ Ø125

TP4PS-LN13
Ø25 ~ Ø40

» Application and features of chip breakers

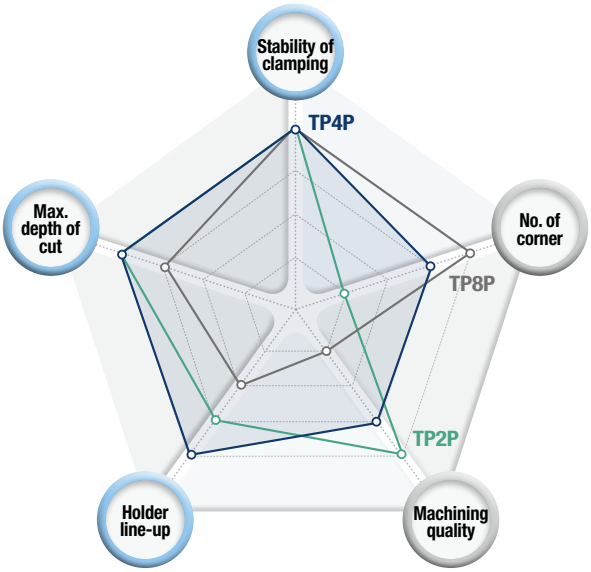
Chip breaker		Cutting edge	Application	Feature
MA			For Aluminum	• Sharp cutting edges for excellent cutting performance in aluminum machining • Buffed surface for excellent chip flow and welding resistance
ML			For HRSA and Titanium	• Guarantees high quality of performance from applying suitable for low cutting resistance chip breaker for HRSA cutting and high hardness cutting edge
MM			For general cutting	• Suitable for general cutting range from design structure for general high feed cutting

» Recommended grade and cutting edge

Recommended grade and cutting edge (● : 1st recommendation)

P		M		K		S		N	
C/B	Grade	C/B	Grade	C/B	Grade	C/B	Grade	C/B	Grade
● MM ○ ML	● PC3700 ○ PC5300	● ML	● PC9540 ○ PC5300	● ML ○ MM	● PC6100 ○ PC5300	● ML	● UNC840 ○ UPC845 ○ PC5300	● MA	● H05

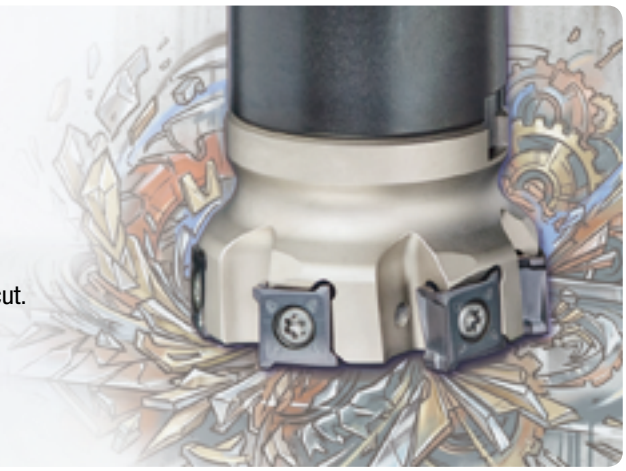
Tool selection guide



Tools	Stability of clamping	No. of corner	Machining quality	Holder line-up	Max. depth of cut
TP4P	★★★★	★★★	★★★	★★★★	★★★★
TP8P	★★★★	★★★★	★	★★	★★★
TP2P	★★★★	★	★★★★	★★★	★★★★

TP8P

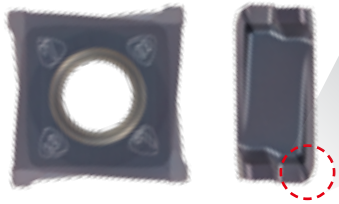
Right angle milling tool with tangential double-sided 8 corners

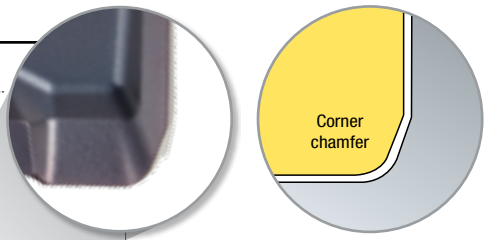


- Double-sided insert with 8 corners realizes high cost efficiency thanks to right angle milling with high depth of cut.
- Excellent for productivity improvement because tangential type insert ensures rigid clamping and allows more flutes (extra close pitch) in accordance with a cutter diameter.

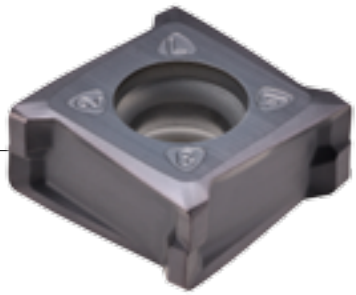
Features

Corner chamfer

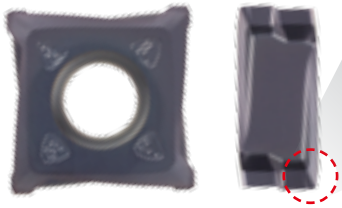


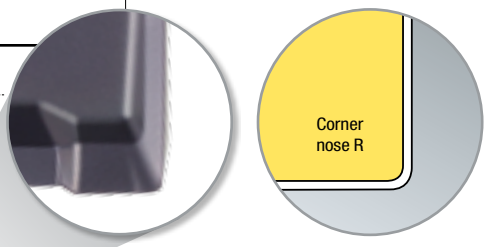


- Chamfer corner
- For multi-steps cutting



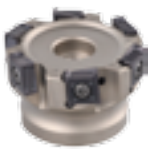
Corner nose R





- Less coarse
- For one step cutting

Type



Cutter
Ø40 ~ Ø125

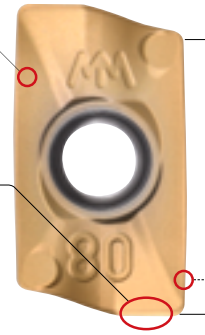
Shank
Ø32 ~ Ø40

Alpha Mill-X

Shoulder Milling tool for high helix

- High helix cutting edge provides high speed and high feed machining (15% higher speed than conventional tool's machining) and increases 20% higher productivity
- Highly precise cutting edge ensures high quality surface finish in Milling

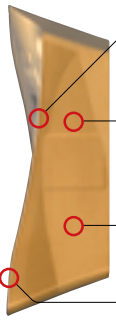
Insert features



High rake angle chip breaker
- Applied high rake angle
- Improved chip control

Applied minor cutting edge with a wiper function
- Minor cutting edge design optimized for excellent surface finish

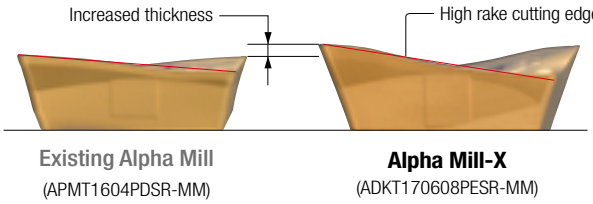
Max. ap
ADKT17 : 16.5mm
ADKT12 : 11.5mm
ADKT10 : 9.5mm



Proprietary relief surface shape
- High rigidity of insert

Flat clamping area
- Stable clamping in high speed and high feed machining

High rake cutting edge
- Better surface toughness
- Lower cutting load

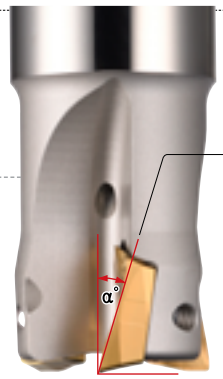


- Applied cutting edge with high rake angle : Decreased in cutting resistance
- Thicker insert: high rigidity of insert

→ **Optimal for high speed and high feed machining**

Cutter features

Wider chip pocket
- Maximized chip control
- Outstanding chip control in high speed and high feed machining



High rake angle cutting edge
- Improved surface finish
- Decreased cutting load

Type

Cutter
Ø40 ~ Ø125

Shank
Ø16 ~ Ø40

Rich Mill Series

innovative double sided insert design provides more cuting edges and longer tool life

- Rich Mill series is one of the innovated design that provides various number of cutting edges with double sided inserts and longer tool life for our customers
- The unique geometry and special cutting edge guarantees low cutting loads and long tool life
- Rich Mill series has a wide application range from steel and stainless steel to cast iron and aluminum

RM3

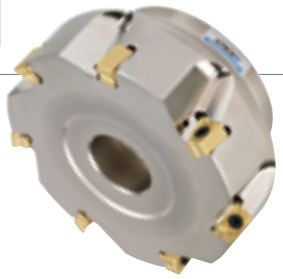
KAPR 90°

INFO

- True perpendicular shouldering operation
- Strong thick insert and 3-face clamping for stable milling even in the toughest conditions
- Reduced tool cost due optimized manufacturing process and excellent tool life

RM4

KAPR 90°



- Double sided inserts with 4 cutting edges
- High rake angle chip breaker and cutting-edge can make smooth cutting with low cutting load
- Negative insert has strong cutting-edge

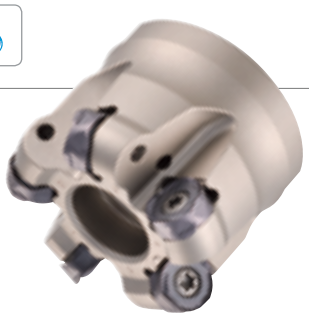
RM6

KAPR 90°

INFO

- 3 clamping surfaces on the side and strong clamping screws
- High precision, excellent perpendicularity, outstanding surface fi nish on the fl ank, accurate tolerance
- High rake angle and sharp cutting edges for lower cutting resistance

RMR



INFO

- Improved machining stability with the combination of the reversal positive structure preventing rotation and wide upper and lower clamping sides.
- Helix cutting edge and sharp chip breaker offer smooth cutting.
- Wide minor cutting edge and optimized cutter angle enhance high surface finish.

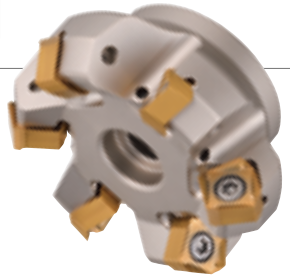
RM8

KAPR 45° KAPR 75° KAPR 88°

- Double-sided insert with 8 cutting-edges
- The unique geometry and high rake angle of cutting-edge guarantees excellent surface finish
  Applicable for various workpieces like Steel, Stainless steel, Cast iron, Aluminum
- Combined with the innovative geometry and various grades offer durability and excellent tool life

RM8-X

KAPR 45°

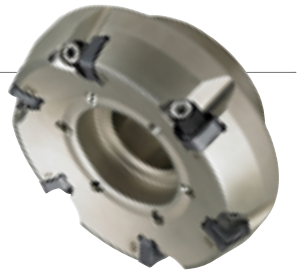


INFO

- High performance in stainless steel machining due to sharp cutting edge and double reverse positive relief surface structure
- Economical tool with double-sided 8 corners and high helix right-handed geometry for high depth of cut machining

RMT8

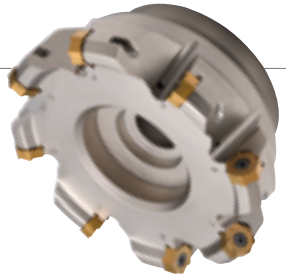
KAPR 45° KAPR 75° KAPR 88°



- New latch clamping system provides a powerful cutting force and an easy insert change
- New grades with chipping resistance provides good surface roughness and better tool life
- Special chip breaker design opens possibility to do all operation

RM14

KAPR 51°

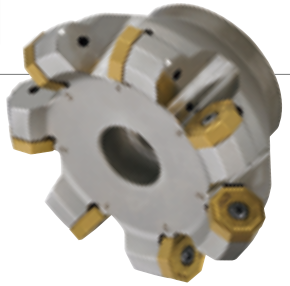


INFO

- Economical face mill with 14 cutting edges
- Minimized chattering of workpiece due to maximum lead angle and sharp cutting edge
- Reduced cutting resistance and improved chip emissions by high helix angle application

RM16

KAPR 45°



- Economical 16 cutting-edges
- Reduces cost in medium cutting
- Wiper insert can be used for good surface roughness

HQM

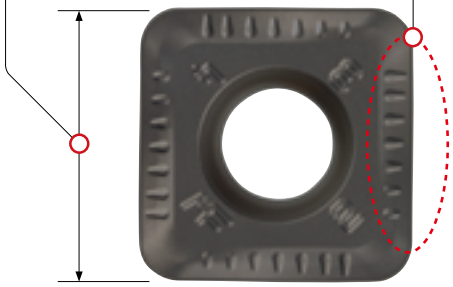
High feed sQuare Milling

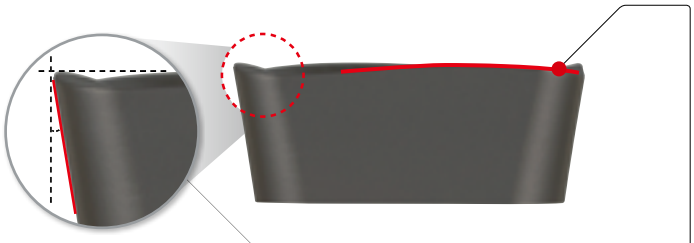
- Stable and high efficient cutting due to the design with high rigidity of 4 planar corners
- High speed and high feed cutting from the optimal rake angle and high helix cutting edge

Features

High rigidity insert
- Inscribed circle 12.0/14.0 mm
- Increased rigidity

Structure of C/B for dispersing heat
- Several dimples
- Preventing heat crack/ increasing tool life



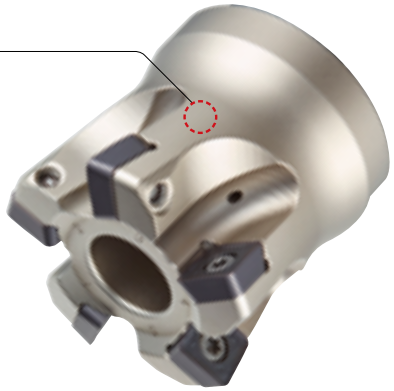


Shape for relief of corner
- Suitable for multi-functional cutting by securing enough relief

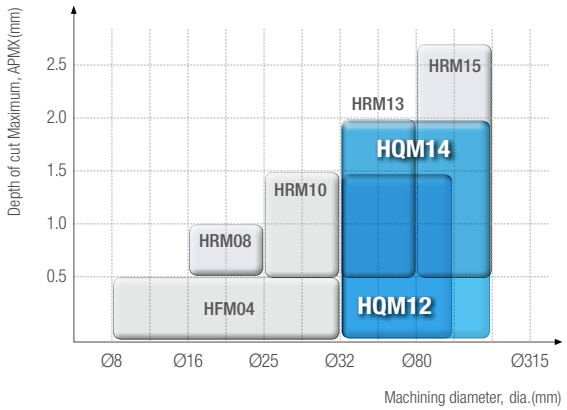
Insert shape for higher rigidity
- Applied streamlined helix
- Increase chipping resistance / preventing unexpected fracture

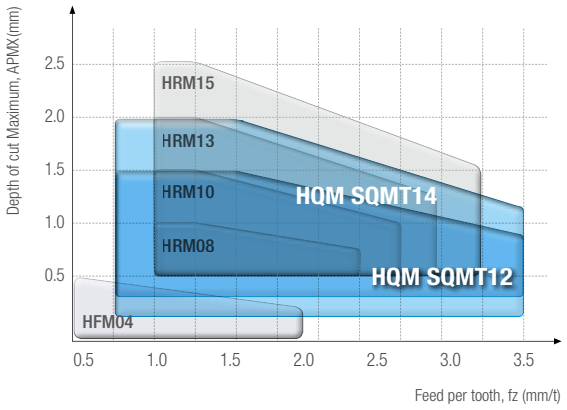
Positive axial direction rake angle
- Good chip curling

Streamlined structure of holder
- Good chip control



Application range





HFMD

High Feed Milling Tool with 4 Corners for Small Diameter

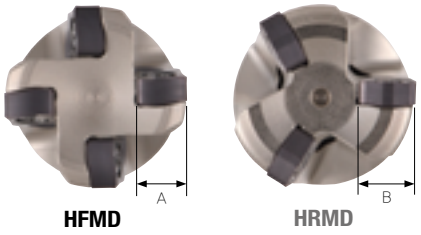
- Available for economical and highly efficient machining with implementation of double sided 4 corner inserts and increase in the number of teeth per cutter diameter
- Available for high speed/high feed machining with high helix edge design and excellent clamping stability

Features

- Available for high feed machining with the increase in the number of tooth per cutter diameter
- Excellent chip evacuation in slotting or deep shouldering with minimized interference with side walls

Highly efficient insert due to fine pitch

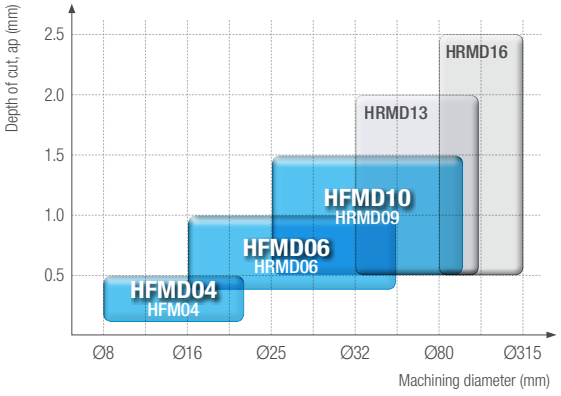
- Able to use fine pitch at the same machining diameter with typical types of milling cutters due to smaller inscribed circle (A < B)

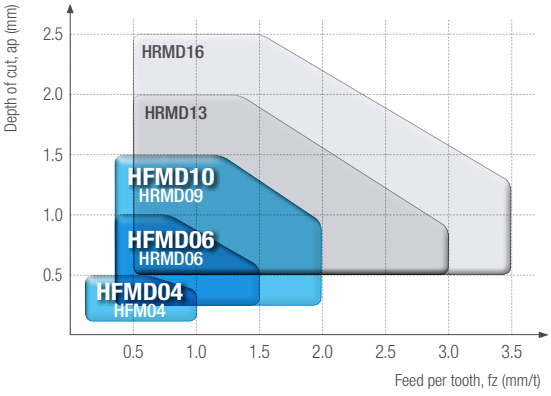


Economical 4-corner insert

- Can use 4 corners with 1 insert by utilizing front/back face; High feed due to finer pitch

Application range





Type

Cutter
Ø32 ~ Ø100

Shank
Ø8 ~ Ø42

Modular
Ø10 ~ Ø42

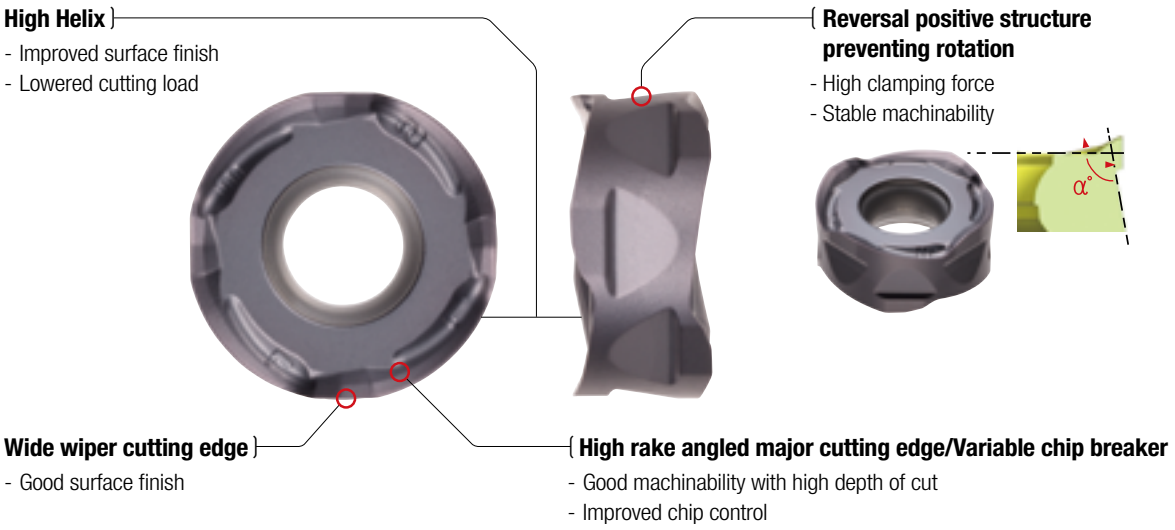
RMR

Double-sided round Milling tool with 8-corners

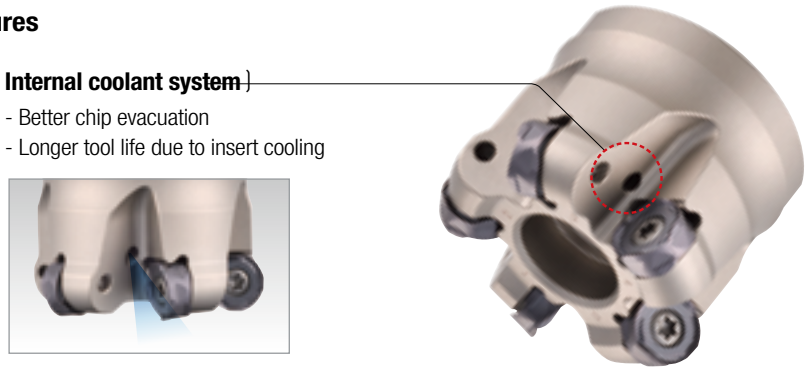
- Improved machining stability with the combination of the reversal positive structure preventing rotation and wide upper and lower clamping sides
- Helix cutting edge and sharp chip breaker realize smooth cutting
- Wide minor cutting edge and optimized holder angle enhance high surface finish

Insert features

- **High cost efficiency** - Maximum 8-corners can be used due to double-sided structure
- **Good surface finish** - The optimal minor cutting edge ensures good surface finish
- **Stable tool life** - The exclusive structure preventing rotation ensures stable machining



Cutter features



Type

Cutter
Ø50 ~ Ø125

Shank
Ø32 ~ Ø63

KING Drill

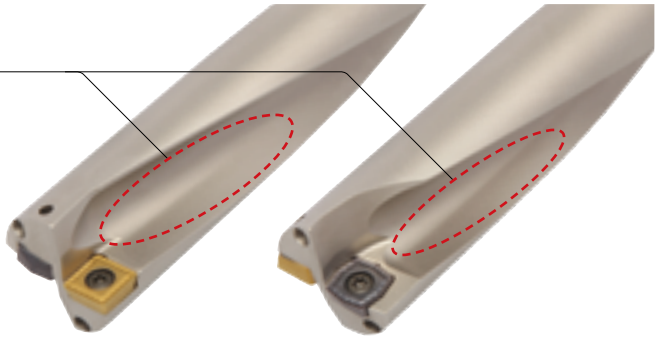
Optimized insert design for maximum drilling efficiency

- Optimized design of inserts for maximum drilling efficiency
- Excellent cutting performance and chip control due to the optimized geometry and chip breaker of both inserts, central & peripheral

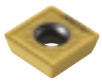
Features

Optimized flute system - 2 coolant holes applied

- The optimized shape of the flute increases the rigidity of the drill body and improves chip evacuation



» Features of chip breaker

Chip breaker	PD		LD		ND		RD
Features	- Universal - At medium speed and medium feed		- Superior chip control for machining mild steel and stainless steel - Light cutting (at low~medium speed and low feed)		- Sharp cutting edge for aluminum machining - Insert surface buffed for high quality result - E Class tolerance		- Improved chipping resistance - Excellent performance in case of frequent fracture and chipping on the cutting edge
Insert	Peripheral insert	Central insert	Peripheral insert	Central insert	Peripheral insert	Central insert	Central insert
Shape							
Grades for workpiece	NC5330 : P, M, K PC3700 : P PC5300 : P, M, K, S PC6100 : K PC9540 : P, M, S	PC5300 : P, M, K, S PC9540 : P, M, S	PC5335 : P, M		H01 : N		PC5300 : P, M, K, S

Type

[2D/3D/4D/5D]
Ø12 ~ Ø60.5

Coolant through system with a lathe [2D/3D/4D]
Ø13 ~ Ø29.5

For large diameter drilling [2D, 3D, 4D]
Ø61 ~ Ø100

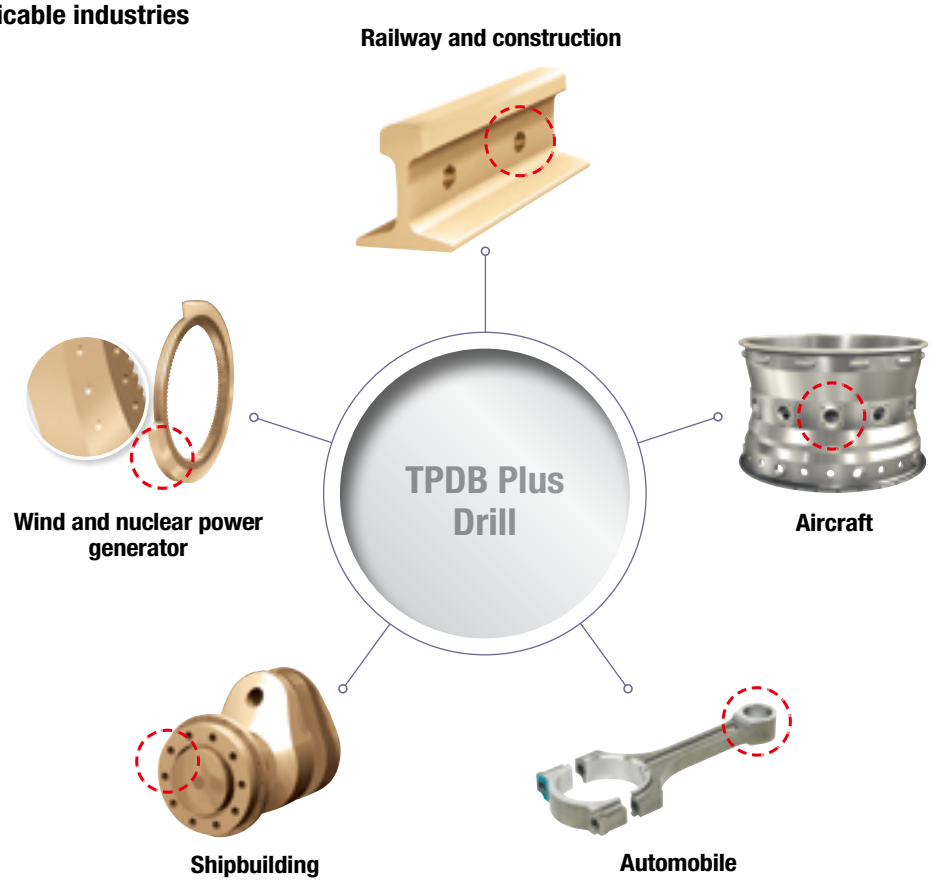
TPDB Plus Drill

(TPDB/TPDB-DS/TPDB-H/TPDB-F)

High-quality and high efficiency top solid indexable Drill Series

- Improved productivity and excellent machining quality through stable machining
- Versatility in machining various surfaces, structural Steel, and medium / large diameter machining

Applicable industries



Holder & Insert line-up

TPDB [3D/5D/8D/10D/12D]
Ø10.0 ~ Ø32.9
Standard
P K M

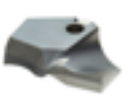
TPD□B

TPD□BM

TPDB-DS [3D/5D/8D]
Ø33.0 ~ Ø39.9
Medium/Large dia.
P K

TPD□B-DS

TPDB-H [3D/4D/5D/8D]
Ø14.0 ~ Ø32.9
H-Beam
P



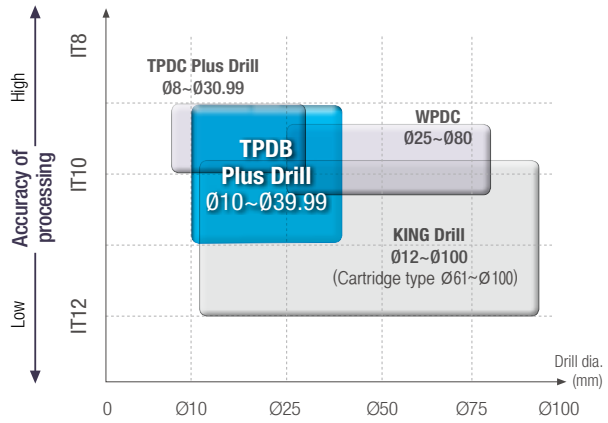
TPD□B-H

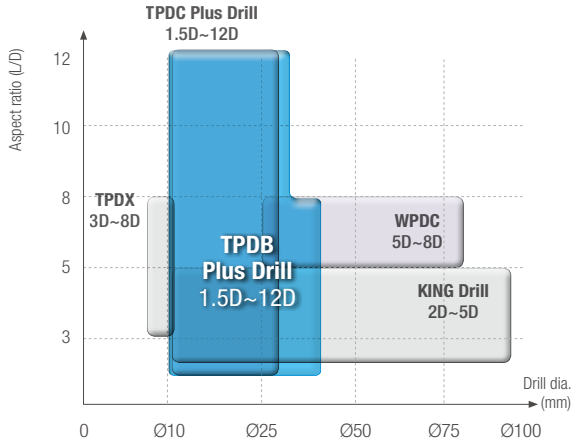
TPDB-F [1.5D]
Ø14.0 ~ Ø30.9
Flat
P K

TPD□B-F

TPDB Plus Drill Series

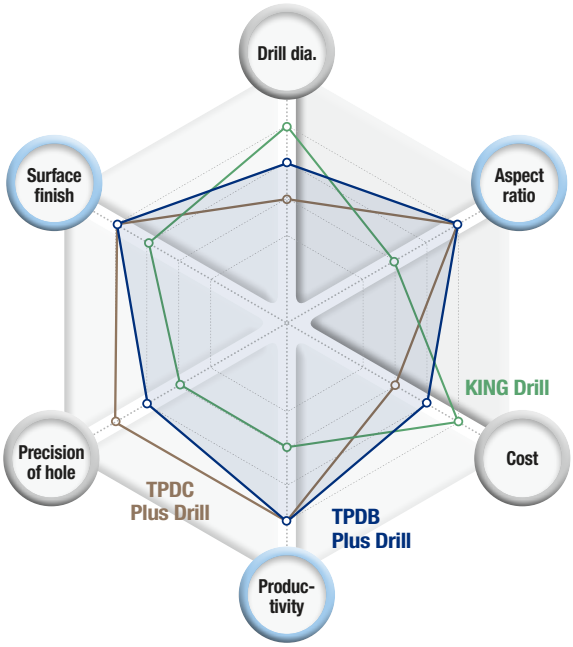
Application range





Tool		Application range			
		Drill dia.(Ø)	Aspect ratio (L/D)	Tolerance of Drill dia.	Workpiece material
TPDB Plus Drill	TPDB(M)	10.0 ~ 32.99mm	3, 5, 8, 10, 12	h7	P, M, K
	TPDB-DS	33.0 ~ 39.99mm	3, 5, 8		P, K
	TPDB-H	14.0 ~ 32.99mm	3, 4, 5, 8		P
	TPDB-F	14.0 ~ 30.99mm	1.5		P

Tool selection guide



Tools	Drill dia.	Aspect ratio	Cost	Productivity	Precision of hole	Surface finish
TPDB Plus Drill	★★★	★★★★	★★★	★★★★	★★★	★★★★
TPDC Plus Drill	★★	★★★★	★★	★★★★	★★★★	★★★★
KING Drill	★★★★	★★	★★★★	★★	★★	★★★

TPDC Plus Drill

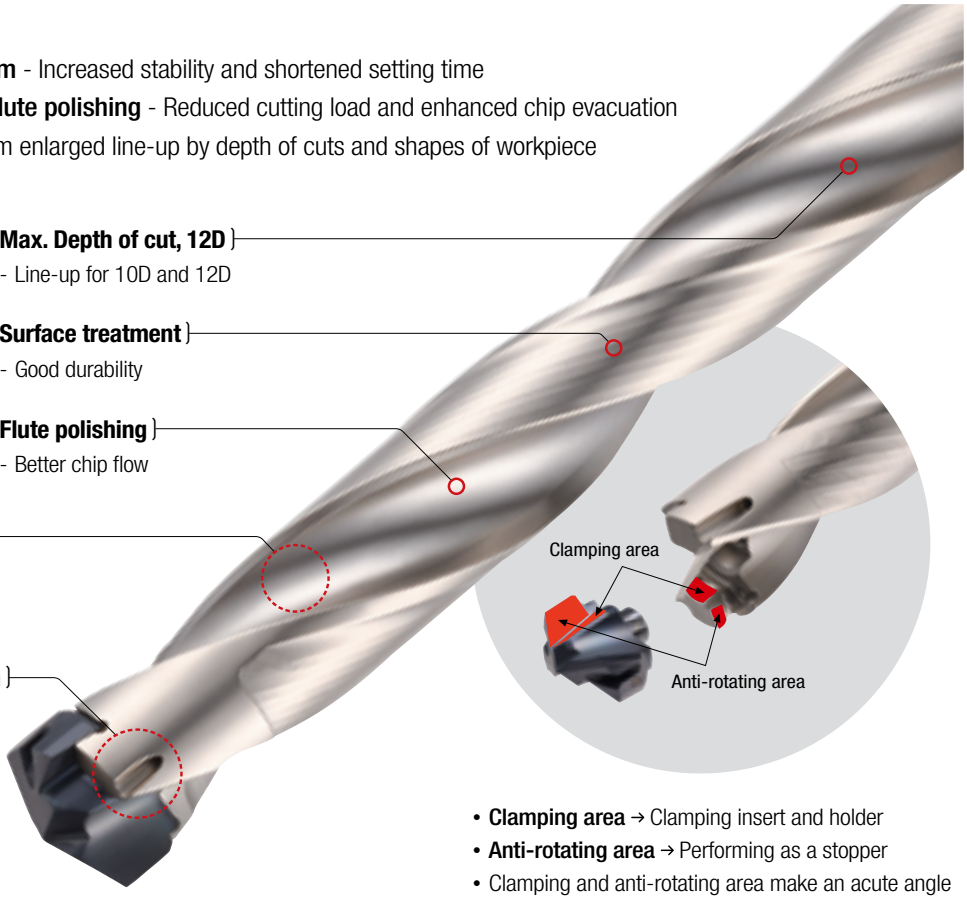
(TPDC-XP, CP, CM, CN, CP-FC)

High quality and high feed top solid indexable Drill

- The optimal tool shape for Drilling realizing high precision and high feed machining as of carbide solid Drill performance level
- Usable for various machining through enlarged line-up by workpieces, depth of cuts and workpiece shapes

Features

- **One step clamp system** - Increased stability and shortened setting time
- **High helix angle and flute polishing** - Reduced cutting load and enhanced chip evacuation
- Various applications from enlarged line-up by depth of cuts and shapes of workpiece



- **Clamping area** → Clamping insert and holder
- **Anti-rotating area** → Performing as a stopper
- Clamping and anti-rotating area make an acute angle to prevent insert rotation while machining

Insert

P | P K | M | N | P

Type

TPDX [3D/5D/8D]
Ø8.0 ~ Ø11.9

TPDC [1.5D/3D/5D/8D/10D/12D]
Ø12.0 ~ Ø30.9

WPDCH

Large diameter(∅45 ~ ∅180) Indexable Drill

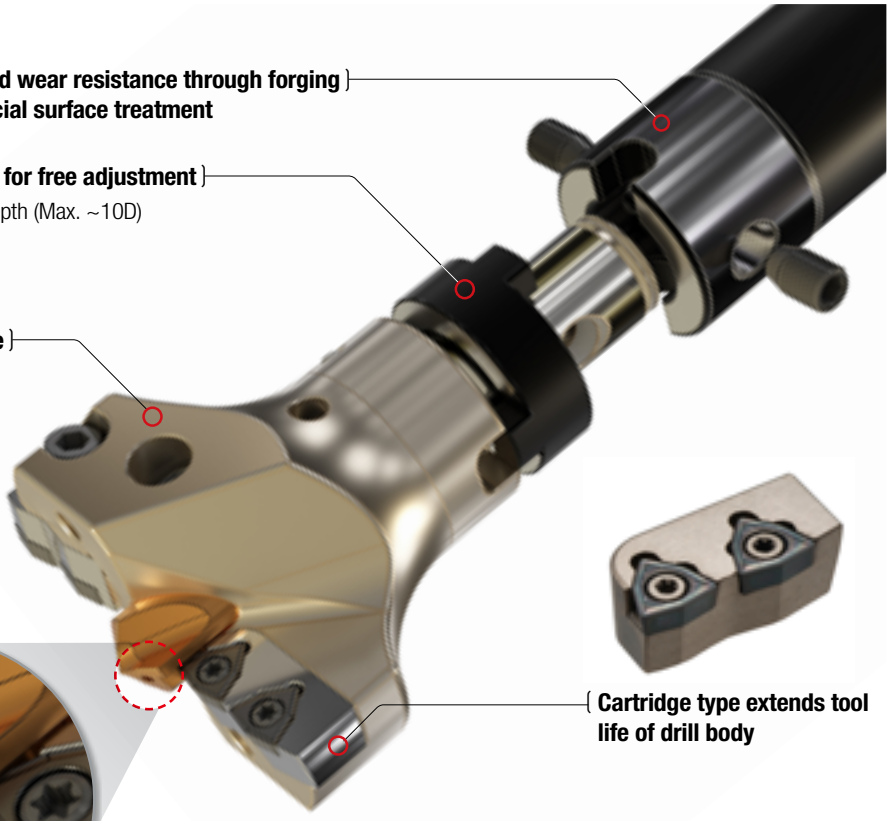
- Cartridge type with adjustable drill diameter allows to freely adjust the machining depth.
- Enhanced wear resistance and durability with a forged and specially surface-treated drill body.

Features

Enhanced wear resistance through forging and special surface treatment

Configurable for free adjustment
- Machining depth (Max. ~10D)

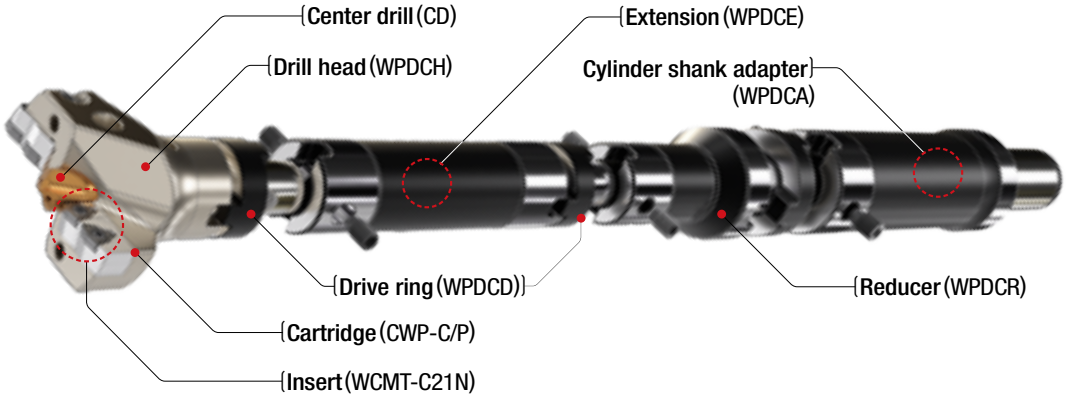
Provides a wide machining range
- Head diameter : Ø45~Ø180



Cartridge type extends tool life of drill body

Optimized shape design with oil hole type center drill enhances wear resistance

Holder design



Solid / Tap

SOLID ENDMILL

- Super Endmill for TI/HRSA
- Super Endmill for HD
- SQM Endmill
- H-Star Endmill
- U-Star Endmill
- S-Star Endmill
- A-Star Endmill

SOLID DRILL

- MSD Plus-S
- W-Star Drill

TAP

- Tap-Star

Super Endmill for Ti for HRSA

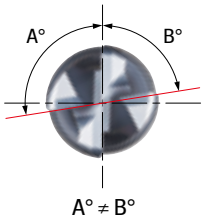
Endmills series for difficult-to-cut materials (Ti and HRSA)

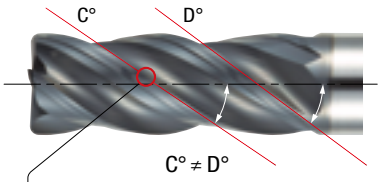
- Machining HRSA and Ti components like engine, turbine and etc. used in aerospace and power generation industries
- Optimal for difficult-to-cut materials machining due to reduced cutting heat and enhanced chip evacuation

Features

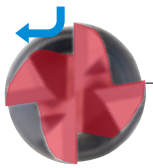
Super Endmill for Ti

» SFET(Flat)/SRET(Radius)



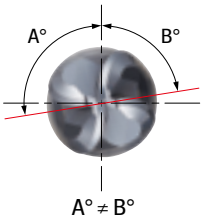


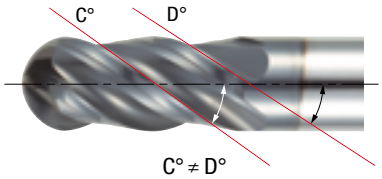
Irregular flute spacing shape
- Reduced chattering and vibration

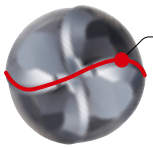


Large chip pocket and streamlined flute design
- Good chip evacuation

» SBET(Ball)



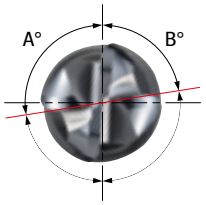


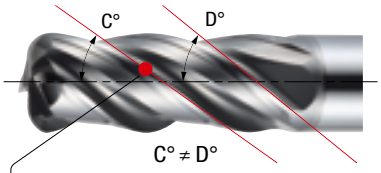


S-curve cutting edge
- Reduced cutting load

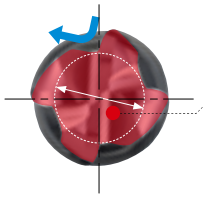
Super Endmill for HRSA

» SRES(Radius)





Irregular flute spacing shape
- Reduced chattering and vibration



High rigidity core web design
- Enhanced cutting stability and chip evacuation

» SFES(Flat)

Corner gash land shape
- Prevent fracture on the corner edge

Type

(For Ti) (For HRSA)

Flat
Ø3.0 ~ Ø20.0

Radius
Ø3.0 ~ Ø20.0

Ball
Ø1.0 ~ Ø12.0

Flat
Ø3.0 ~ Ø20.0

Radius
Ø3.0 ~ Ø20.0

Super Endmill for HD

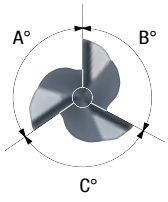
Coming soon

High-Efficiency Medium-Duty Endmill for Materials up to HRC52

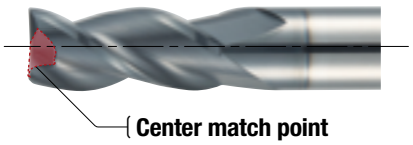
- Excellent Tool Life Across Various Materials
- For Machining Carbon steel, Alloy Steel, Pre-hardened steel, and Stainless steel

Features

» SFEU3000 (Flat)

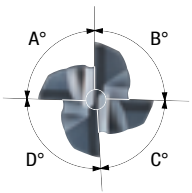


A° ≠ B° ≠ C°

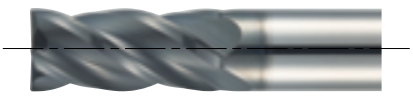


Center match point
- High efficiency machining

» SFEU4000 (Flat) / SREU4000 (Radius)

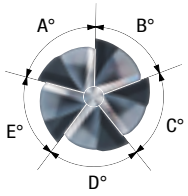


A° ≠ B° ≠ C° ≠ D°



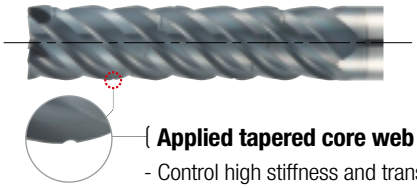
Tapered web geometry applied
- Improved machining stability

» SLFEU5000-SPLT (Splitter)



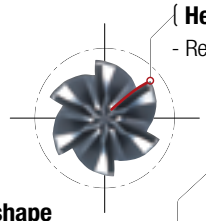
A° ≠ B° ≠ C° ≠ D° ≠ E°

U Shape chip breaker
- Lower chip cutting and cutting load



Applied tapered core web shape
- Control high stiffness and transforming tools

» SDREU6000 (High feed)

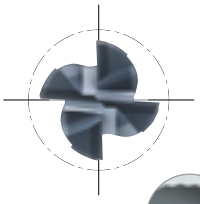


Helix type low rake geometry
- Reduced cutting load

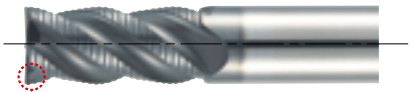
Large chip pocket and streamlined flute design
- Good chip evacuation

Low approach angle profile geometry
- Reduced cutting load and optimized for high-feed machining

» SFREU4000 (Fine pitch roughing)



Irregular flute spacing shape
- Reduced chattering and vibration

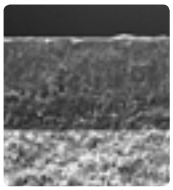


A° ≠ B°

Fine pitch serrated cutting edge
- Reduced cutting load and optimized geometry for high-feed machining

Grade Features

UE coating (Ultra Endurable resistant coating)



- Maximized tool life with excellent wear resistance of high-hardness thin coating
- Enhanced machining stability through outstanding coating surface finish
- Improved chip evacuation and prevention of built-up edge with excellent surface lubricity

Type

Flat
Ø1.0 ~ Ø20.0

Radius
Ø1.0 ~ Ø20.0

Ball
Ø1.0 ~ Ø12.0

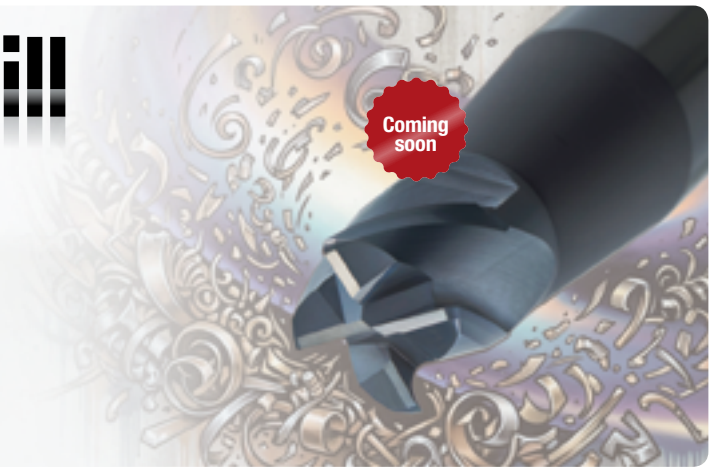
Roughing
Ø6.0 ~ Ø20.0

High feed
Ø6.0 ~ Ø16.0

SQM Endmill

Super Quickfix Modular Endmill

- High-precision and strong fastening due to a proprietary screw fastening design
- Excellent performance achieved by applying modular-dedicated shape and material



Features

» Features of proprietary screw fastening structure

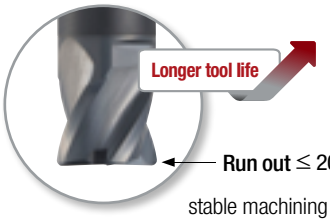
- High-precision and strong fastening, maintains fastening repeatability and accuracy
- Dual guide surfaces ensures precise centering and prevents from machining deflection
- Dual contact surfaces maximize fastening stability and repeatability

Dual guide surfaces
- Ensures precise centering and prevents from bending during machining

Exclusive screw clamping structure
- High-precision and strong fastening

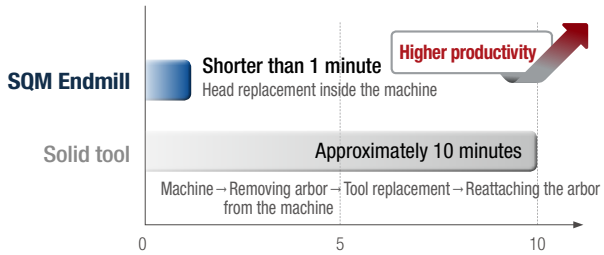
Dual contact surfaces
- Dual contact surfaces contact in both the Z-axis and radial directions, ensuring fastening stability and maintaining repeatability through high-precision, strong fastening

» Ensures stable machining quality and consistent fastening integrity



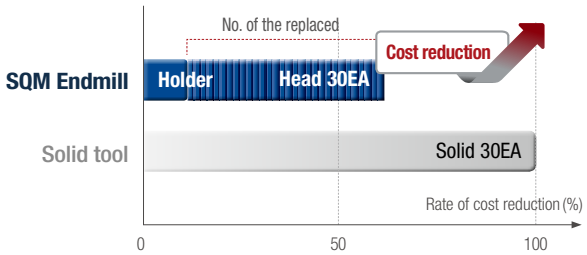
stable machining quality and consistent fastening integrity

» Reduces setup time due to fast and easy head replacement



- Minimized machine downtime

» Cost savings on tools
(Based on replacing 30 heads and solids)



- Superior price competitiveness by allowing replacement of only worn heads

Type

Flat
Ø10.0 ~ Ø25.0

Radius
Ø10.0 ~ Ø25.0

Holder
Ø10.0 ~ Ø32.0

INFO

H-Star Endmill

Endmill for High hardness Steel cutting

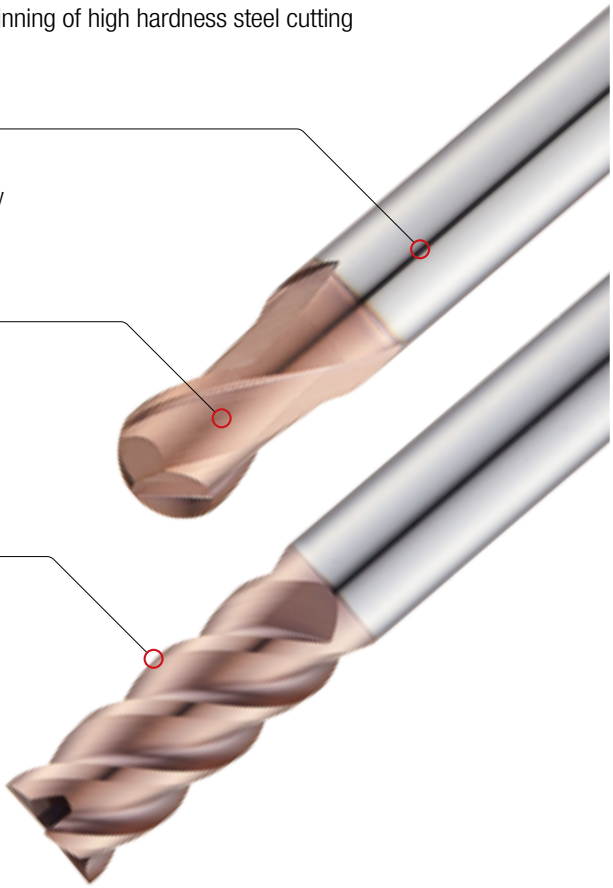
- Stable cutting from High hardness substrate and exclusive new coating layer with good wear resistance application
- Improved initial chipping resistance with optimized edge treatment for High hardness Steel cutting

Features

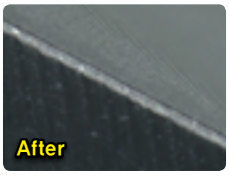
- **High hardness coating layer** - Ensuring stable cutting from high Si content, increased wear resistance and frictional heat resistance due to applying a new AlTiSiN series coating layer
- **High hardness substrate** - Containing ultra-fine WC + Co 9% and expanded general application range by maximizing cutting edge feature
- **Edge treatment** - Increased chipping resistance in the beginning of high hardness steel cutting and enhanced wear resistance lead to stable cutting

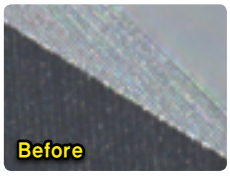
High hardness substrate
- Ultra-fine WC + Co 9%
- Expanded general application range by maximizing cutting edge feature

High hardness coating layer
- High Si content
- Enhanced wear resistance
- Stable cutting through frictional heat resistance increase



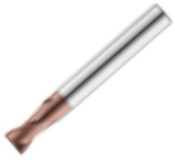
Edge treatment
- Enhancing chipping resistance in the beginning of high hardness steel cutting
- Increased wear resistance and stable cutting performance





Type

Ball
Ø0.1 ~ Ø12.0



Flat
Ø0.1 ~ Ø20.0

Radius
Ø0.2 ~ Ø20

High feed
Ø3.0 ~ Ø12.0

U-Star Endmill

General use Endmill for Medium hardness and Alloy Steel cutting

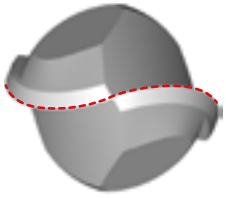
- Wide line-ups for cutting various complicated shaped workpieces
- Longer tool life due to new coating and optimal substrate for cutting

Features

- Carbide Endmill for HRC30~50 medium Hardness Steel and Die Steel cutting
- Enhanced wear resistance, anti-oxidation and lubrication by applying AlCrN series coating layer
- Enhanced cutting edge strength of ball Endmill applying ultra-fine substrate (PC303W)
- Higher chipping resistance of flat Endmill applying high toughness substrate (PC315W)
- Various shaped line-ups for complicated mold machining
- Suitable for precision cutting with high precision Range of h5 shank, flute and radius

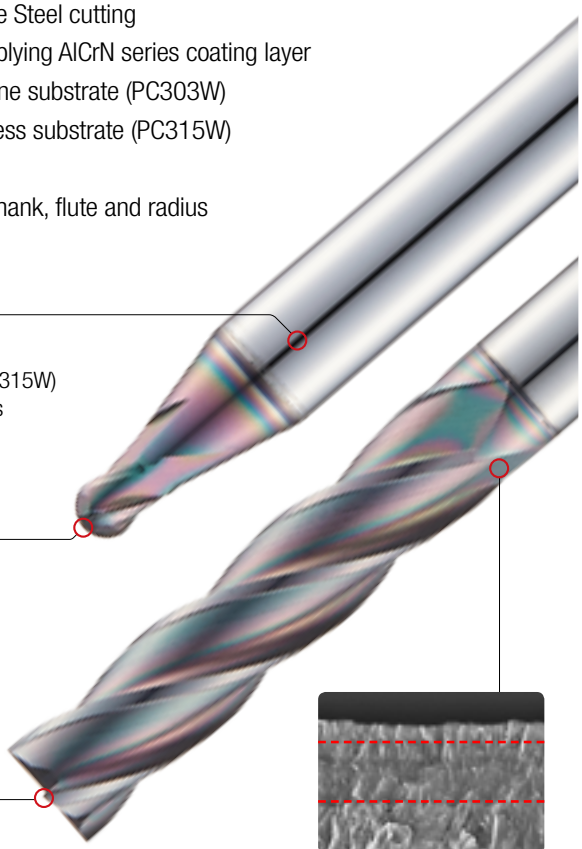
Applying substrate for medium hardness steel cutting

- Separating the substrate (PC303W and PC315W) maximizes the features of tool and ensures general use



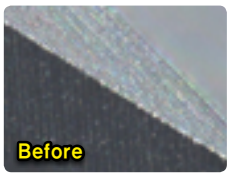
Applying S-curved gash shape

- Increased cutting performance and wear resistance due to dispersing cutting force



Edge treatment

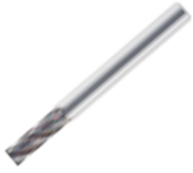
- Enhanced chipping resistance in the beginning of cutting
- Guiding stable cutting for managing the properties of mold machining



AlCrN base new coating

- Increased wear and oxidation resistance due to multi layer
- Enhanced lubrication with Cr containing
- Stable cutting under frictional heat

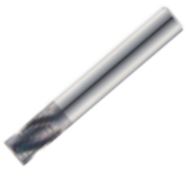
Type



Flat
Ø0.1 ~ Ø25.0

Radius
Ø0.2 ~ Ø20.0

Ball
Ø0.1 ~ Ø25.0



Roughing
Ø3.0 ~ Ø25.0

S-Star Endmill

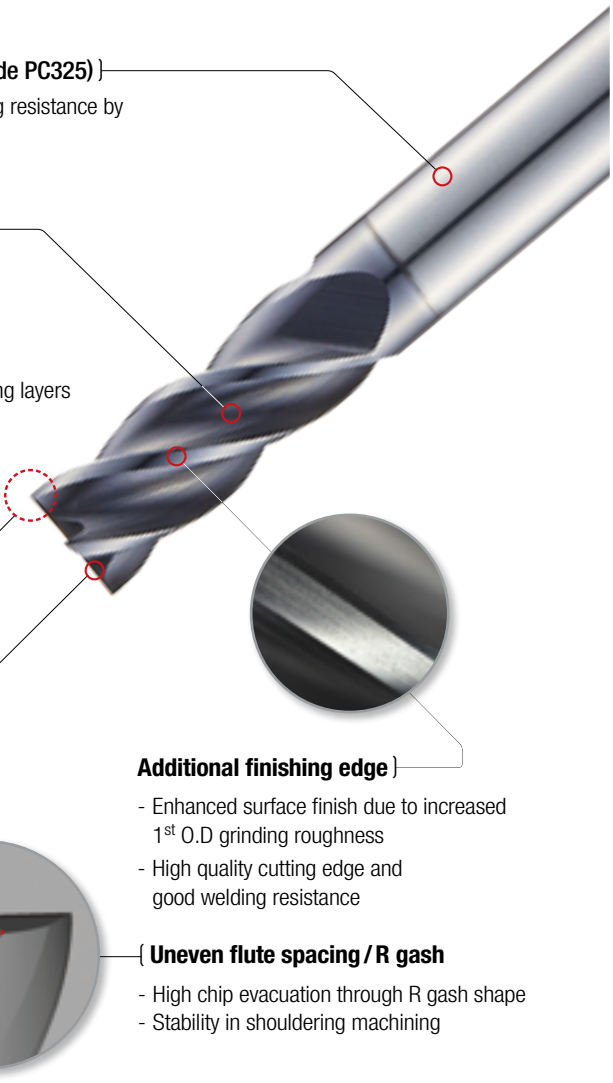
Endmill for Stainless Steel machining

- Stable machinability minimizing unexpected chipping from optimal cutting edge design for Stainless Steel cutting
- High performance in Stainless Steel series, Titanium and Nickel cutting from applying new coating with high oxidation resistance and Hardness

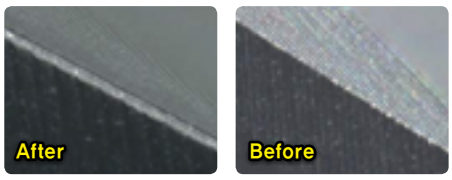
Features

Applying high toughness substrate (Grade PC325)
- Stable cutting is ensured with better chipping resistance by applying high toughness substrate

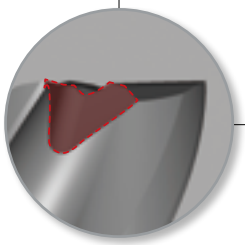
Applied differential AlCrN coating layer depth per tool size
- Applied multi coating layers
- Increased lubrication due to containing Cr
- Enhanced stability against frictional heat
- Improved wear resistance from thicker coating layers



Cutting edge treatment
- Improved chipping resistance in the beginning of cutting
- Better wear resistance and stable cutting
- High quality of product from cutting edge treatment stabilization

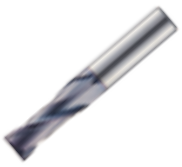


Additional finishing edge
- Enhanced surface finish due to increased 1st O.D grinding roughness
- High quality cutting edge and good welding resistance



Uneven flute spacing / R gash
- High chip evacuation through R gash shape
- Stability in shouldering machining

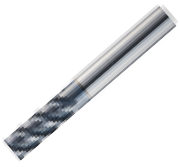
Type



Flat
Ø1.0 ~ Ø20.0

Radius
Ø1.0 ~ Ø20.0

Ball
Ø1.0 ~ Ø20.0



Roughing
Ø3.0 ~ Ø20.0

A-Star Endmill

Endmill for Aluminum machining

- Optimized solutions for each application type - A wide selection of tools provided for various machining processes
- Higher machining efficiency - Advanced flute design and cutting edge technology applied

INFO

Features

APFE

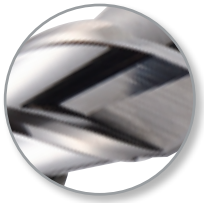
- Streamlined blade design optimized for rough, medium to finish cutting
- Extended tool life due to efficient chip evacuation

U-shaped flutes with mirror-like finishing
- Efficient chip evacuation through wide chip pockets
- Inhibited build-up edges due to mirror-like finishing

Sharp cutting edges and double relief angles
- Reduced cutting force
- Prevention of tool breakage due to reinforced cutting edges

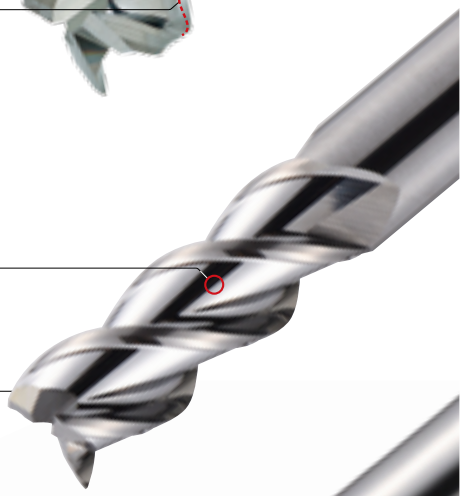
AFE

- More economical compared to other products
- Reduced tool breakage and increased machinability



Mirror-like flute surface
- Lower cutting force
- Reduced cutting load over equipment

Sharp cutting edges
- Long tool life and improved cost efficiency
- Reduced cutting force

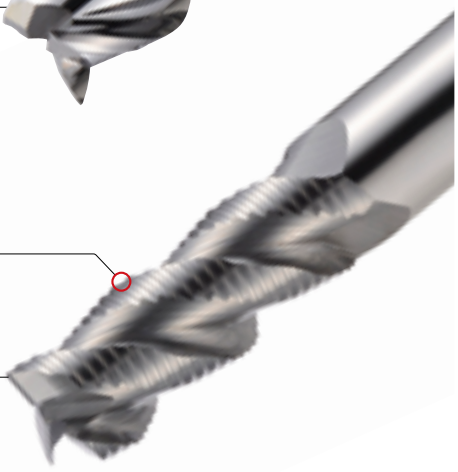


RPAE

- Specially designed cutting edges for roughing
- Improved surface finish due to sharp edges

Blade design of wave form
- Lower cutting force
- Efficient chip evacuation through chip breaking

Sharp cutting edges
- Lower cutting force
- Reduced loads over equipment



Type

Flat
Ø1.0 ~ Ø20.0

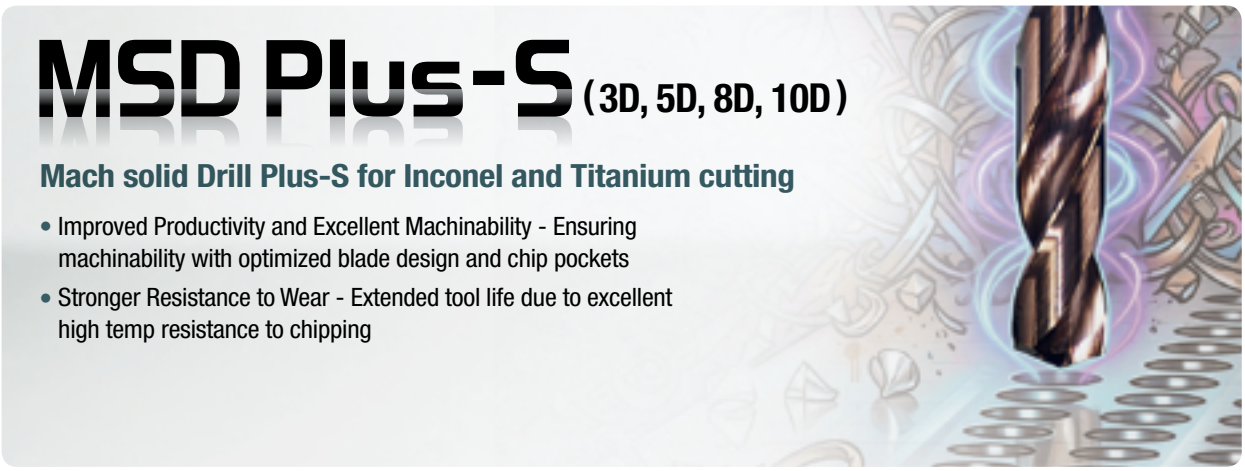
Ball
Ø1.0 ~ Ø12.0

Roughing
Ø4.0 ~ Ø25.0

MSD Plus-S (3D, 5D, 8D, 10D)

Mach solid Drill Plus-S for Inconel and Titanium cutting

- Improved Productivity and Excellent Machinability - Ensuring machinability with optimized blade design and chip pockets
- Stronger Resistance to Wear - Extended tool life due to excellent high temp resistance to chipping



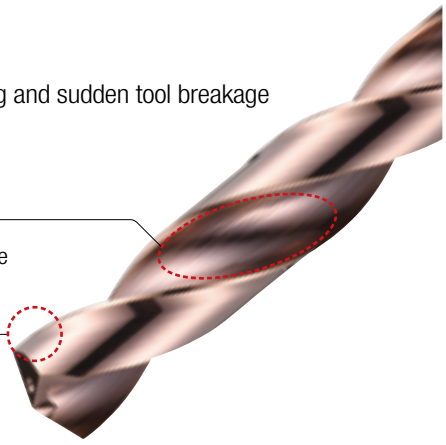
Features

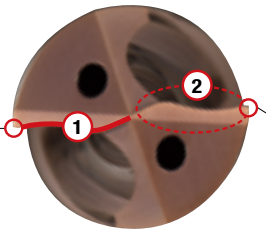
3D, 5D

- Specially prepared cutting edges and optimized blade design prevent chipping and sudden tool breakage
- Optimized tip flank design improves heat evacuation

Optimized margin and back-tapered design
- Reduced friction resistance and cutting temperature

Flute Design
- Wider chip pockets improve chip evacuation





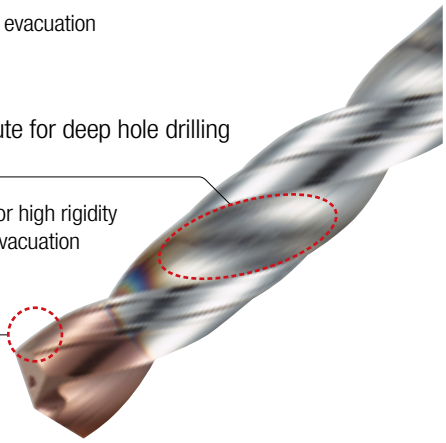
Cutting-edge design
- Notch-controlled blade design and specially treated cutting edges prevent chipping and breakage
  ① Cutting edges designed for low cutting resistance
  ② Tip relief angle and shape optimized for heat evacuation

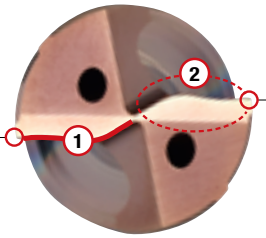
8D, 10D

- Enhanced chip evacuation fracture resistance of tool from proper design of flute for deep hole drilling

Optimal margin and back-tapered design
- Reduced friction resistance and cutting temperature
- Realized cutting stability by applying double margin

Flute shape
- Design of flute for high rigidity and good chip evacuation





Cutting edge design
- Designing cutting edge for chip shape control and applying optimal cutting edge treatment
  ① Proper chip shape and cutting edge for low cutting resistance
  ② Tip relief angle and shape optimized for heat evacuation

Type

MSDPH-S [3D/5D]
Ø3.0 ~ Ø16.0

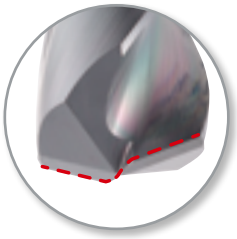
MSDPH-S [8D/10D]
Ø3.0 ~ Ø16.0

W-Star Drill

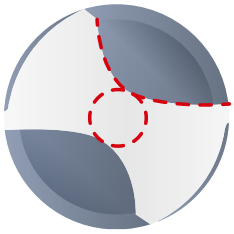
Economical carbide coated solid drill

- Better cutting performance with an improved thinning shape which lessens cutting load
- High rigidity and good chip evacuation from the optimal designed flute

Features

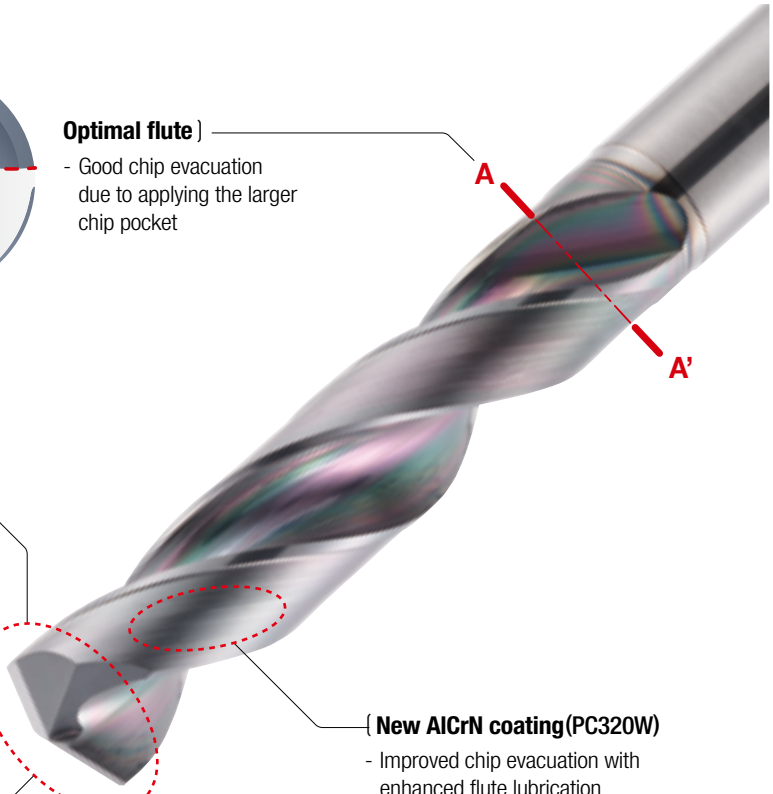


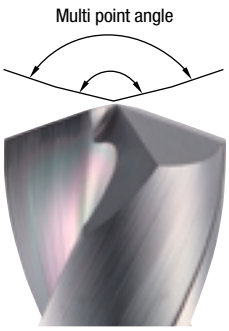
XR Thinning shape
- Reduced cutting load on the cutting edge with a streamlined thinning
- Improved chip breaking



SECTION A-B'

Optimal flute
- Good chip evacuation due to applying the larger chip pocket

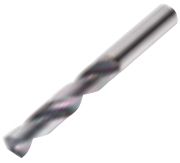




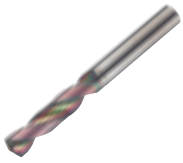
Multi point angle
- Separated cutting load by optimal point angle
- Streamlined 1st point angle

New AlCrN coating (PC320W)
- Improved chip evacuation with enhanced flute lubrication
- Enhanced wear resistance and oxidation resistance by multi-layer coating

Type



WSDP [3D/5D/7D]
Ø1.0 ~ Ø20.0



WSDPH [3D/5D/8D]
Ø3.0 ~ Ø20.0

Tap-Star

High preformance threading Tap

- High toughness HSS substrate for improved chipping resistace
- Optimally designed shape for various workpiece cutting

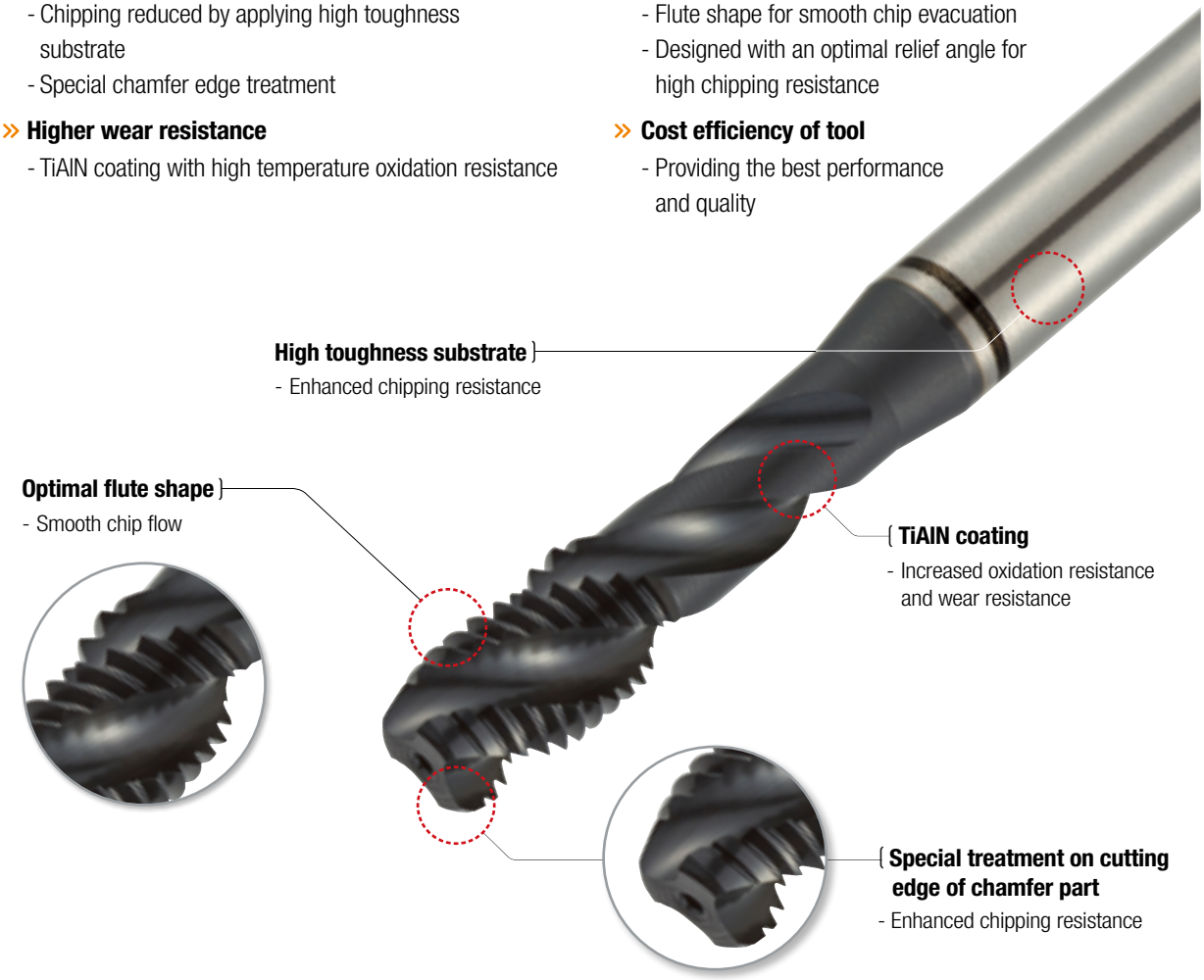
Features

» Higher chipping resistance
- Chipping reduced by applying high toughness substrate
- Special chamfer edge treatment

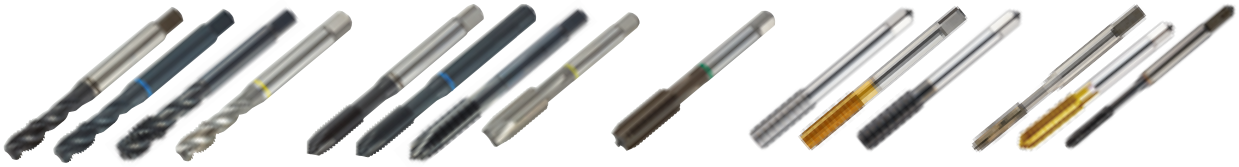
» Higher wear resistance
- TiAlN coating with high temperature oxidation resistance

» Optimal shape
- Flute shape for smooth chip evacuation
- Designed with an optimal relief angle for high chipping resistance

» Cost efficiency of tool
- Providing the best performance and quality



Type



Spiral flute Tap	Spiral point Tap	Straight flute Tap	Roll Tap	Spiral roll Tap
DIN : M2 ~ M24 JIS : M2 ~ M24	DIN : M2 ~ M24 JIS : M2 ~ M24	DIN : M3 ~ M24 JIS : M3 ~ M24	DIN : M3 ~ M12 JIS : M3 ~ M12	JIS : M3 ~ M6

KORLOY GUIDE

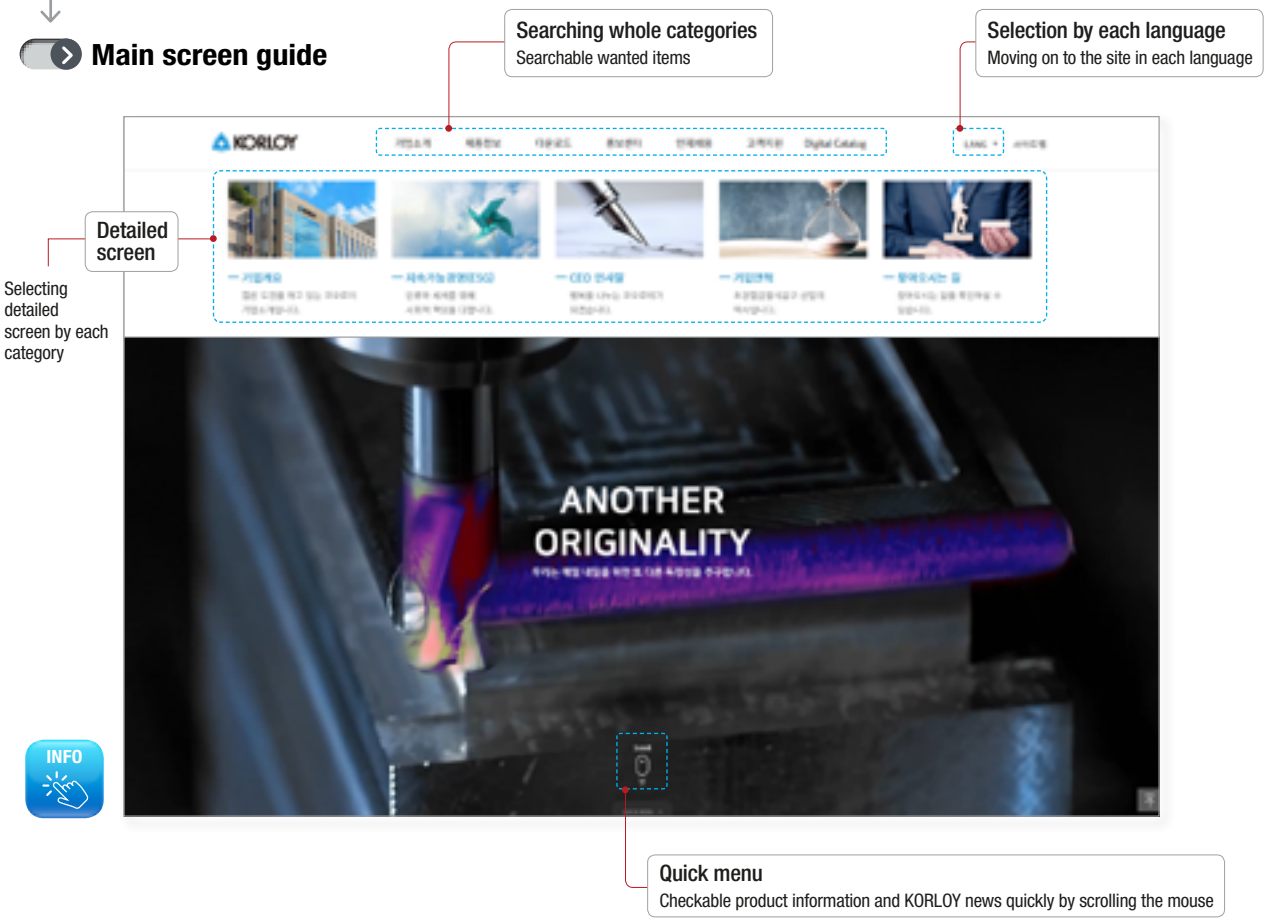
INTRODUCTION OF HOMEPAGE

Get on the homepage through the internet.

» **http://www.korloy.com** (KORLOY Homepage)

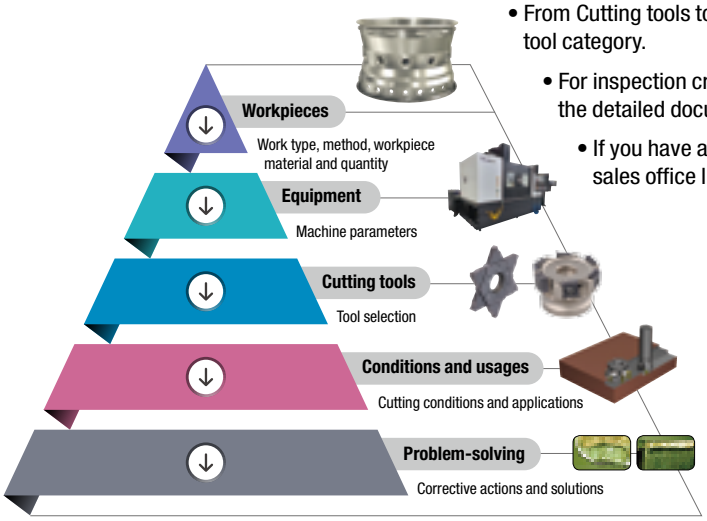
Choose a category and click that.

Main screen guide



TOOLS SELECTION GUIDE

Main screen guide



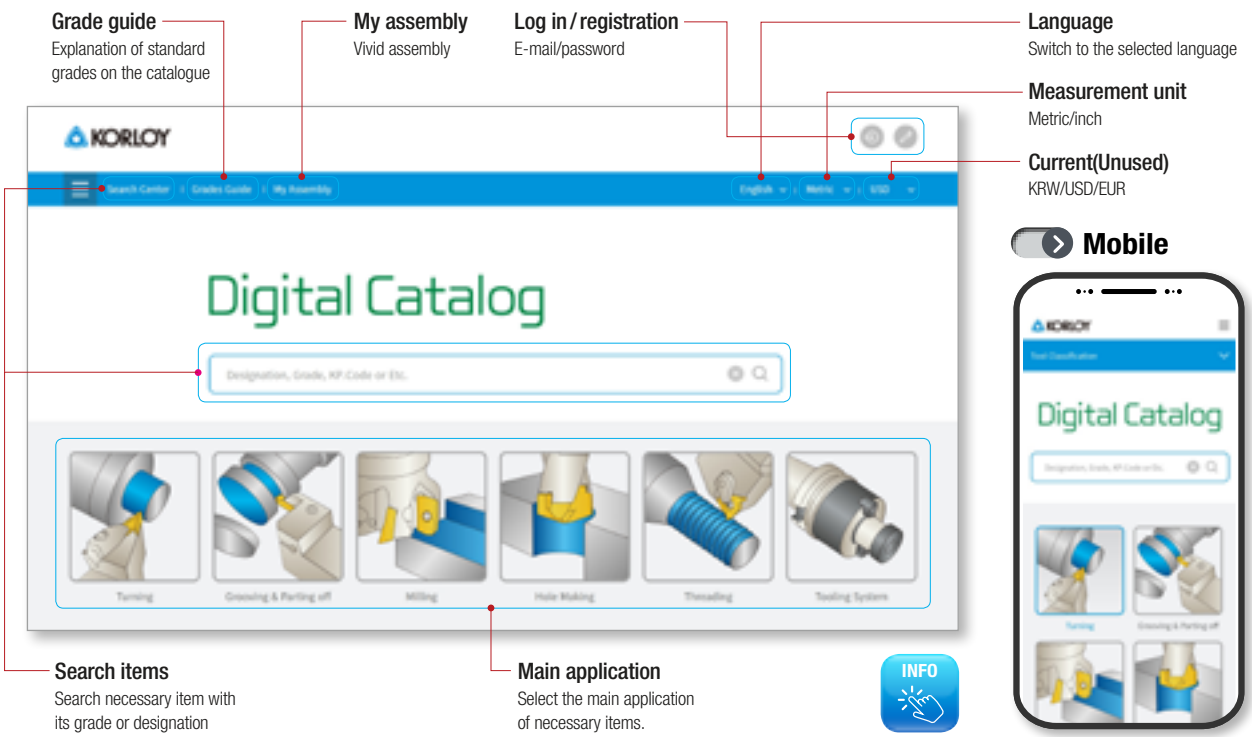
- To analyze machining operation, follow the steps above.
- From Cutting tools to Problem-solving, refer to the respective chapters for each tool category.
- For inspection criteria regarding workpieces and equipment, please refer to the detailed documentation on the following page.
- If you have any inquiries or questions, please contact the designated sales office listed on the last page for a detail explanation.

INTRODUCTION OF DIGITAL CATALOG

Get on the homepage through the internet.

» **https://catalog.korloy.com**

PC



Mobile

INTRODUCTION OF ONLINE EXHIBITION

Get on the online exhibition hall on the PC or mobile.

» **https://www.korloy.com/ko/prcenter/media_list.do#online**

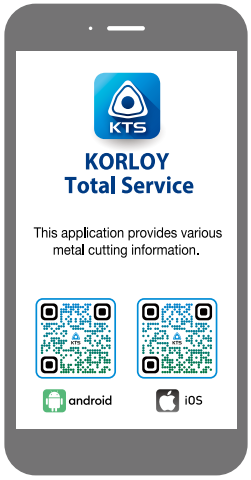
Main screen guide

1. **Mini map -** Move the wanted hall
2. **Information desk -** Introduction in Korean/English
3. **Side menu -** Searchable wanted sections
4. **Product names / Explanation -** In Korean/English
5. **Video -** Item promotion video
6. **Tech news -** Checking tech news
7. **Detailed information of product -** Checking the information of product and promotion video
8. **3D modeling -** Checking 3D modeling view

*** Connectable on mobile**

⚠ For the safe metalcutting

- Use safety supplies such as protective gloves to prevent possible injury while touching the edge of tools.
- Use safety glasses or safety cover to hedge possible dangers. Inappropriate usage or excessive cutting condition may lead tool's breakage or even the fragment's scattering.
- Clamp the workpiece tightly enough to prevent its movement while its machining.
- Properly manage the tool change phase because the inordinately used tool can be easily broken under the excessive cutting load or severe wear, and it may threat the operator's safety.
- Use safety cover because chips evacuated during cutting are hot and sharp and may cause burns and cuts. To remove chips safely, stop machining, put on protective gloves, and use a hook or other tools.
- Prepare for fire prevention measures as the use of the non-water soluble cutting oil may cause fire.
- Use safety cover and other safety supplies because the spare parts or the tools can be pulled out due to centrifugal force while high speed machining.



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