KORLOY HIGHLIGHT PRODUCTS





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NC3200 Turning Inserts NC3205, NC3215, NC3225, NC3235

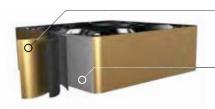
CVD insert series for Steel Turning

- Applied the New CVD coating increasing 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 increased wear resistance, chipping resistance and heat resistance

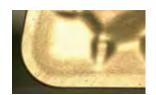
High toughness and heat resistance substrate

- Exclusive substrate per each grade increasing tool life

Highly lubricative coating with fine surface finish application

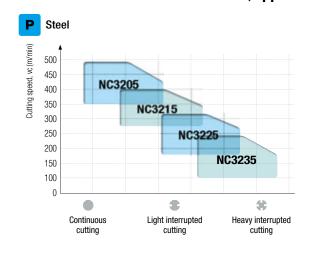


[NC3205, NC3235]

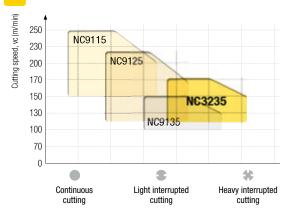


[Existing grade]

(Application range)



M Stainless steel



NC3205)

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



NC3215)

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



NC3225)

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



NC3235)

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



NC5320

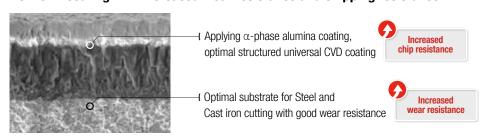
Universal insert for Steel and Cast iron cutting

- Applying exclusive substrate for Steel and Cast iron and New CVD coating with great wear resistance
- Applying 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



• Increased surface finish due to applying New CVD coating



Normal surface finish

[Existing grade]

(Application range) Steel **Cast iron** Cutting speed, vc (m/min) 325 450 400 300 NC3215 NC6315 350 275 300 250 NC5320 250 225 NC5320 200 200 NC3225 175 150 NC5330 NC5330 100 150 50 125 Continuous Light interrupted Heavy interrupted Continuous Light interrupted Heavy interrupted cutting cutting cutting cutting cutting cutting



UNC805/UNC840 UPC810/UPC840

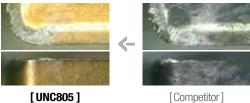
High performance Ultra Coating grade series for machining of HRSA

- Enhanced substrate in order to minimize thermal crack resistance at high temperature and prevent unexpected tool breakage
- Increased chip removal volume thanks to Ultra Coating technology with high hardness and lubrication
- Minimized built-up edge due to the optimized cutting edge of the insert



(Features)

• Inconel (9723)



[Competitor]



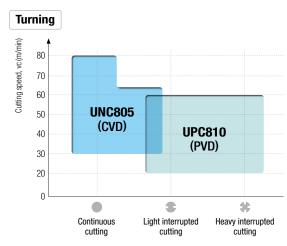
[UNC840] [Competitor]

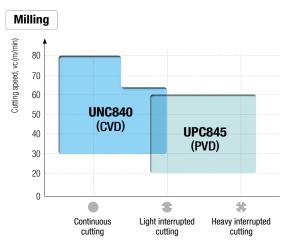
• Titanium (5832-11)



[Competitor] [UPC845]

(Application range)





UNC805 (CVD Turning)	UN840 (CVD Milling)	UPC810 (PVD Turning)	UPC845 (PVD Milling)
	N. 62	Kara Tab	

- Good performance in high speed machining
- For high speed and low feed machining
- For forged workpiece
- For high hardness (HRC35 or above) HRSA
- For large-sized workpiece (Ø200 or above)

- Good performance in low speed and high feed machining
- For high interrupted cutting conditions
- For cast and round bar machining
- For low hardness (under HRC35) HRSA
- For workpiece (under Ø200)

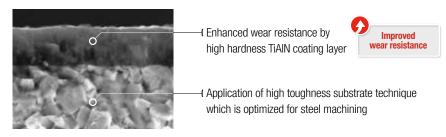
Inserts for Steel Grooving and Parting

- Suitable substrate for Steel Grooving and Parting and good wear resistance coating layer
- Application of coating surface treatment improving welding resistance and chipping resistance



(Features)

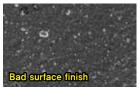
Substrate for steel grooving and parting and PVD coating technology



· Coating surface treatment technology

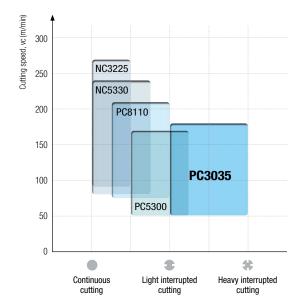






[Existing grade]

(Application range)



Application range	Grade	vc (m/min)
Continuous, high speed	NC3225	90 ~ 270
Continuous, medium speed	NC5330	80 ~ 240
Low interrupted, medium speed	PC8110	75~210
Low interrupted, low speed	PC5300	50~170
Interrupted, medium speed	PC3035	50~180



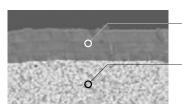
Milling grade specialized for Steel

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



(Features)

• Substrate for general Milling applications of Steel and PVD coating treatment

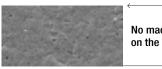


- Stronger resistance to welding and chipping due to the multi-layer coating technology with high hardness and lubricating treatment
- Ensuring general machinability due to wear and breakage resistant materials optimized for milling applications of Steel

• Smooth surface due to special surface treatment

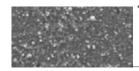
→ Smooth chip evacuation, improved chipping resistance and surface finish of the workpiece





[PC3700]

No macro-particle on the coated surface



Lots of macro-particles on the coated surface

[Existing products]

Higher wear resistance



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

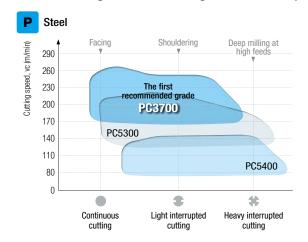
Less unexpected breakage)

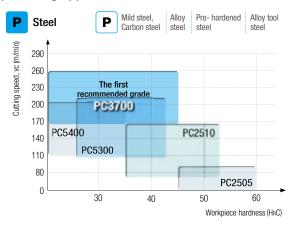


Ensuring general machinability due to wear and breakage resistant materials optimized for milling applications of Steel

(Application range)

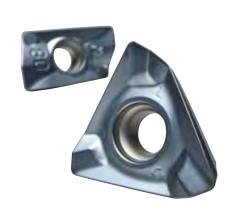
• Recommended grades and cutting conditions for p-type Milling application





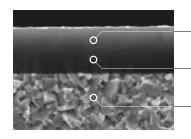
PVD insert for general Milling

- 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



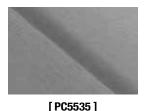
(Features)

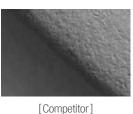
Omega-Tech™ - applying PVD fusion coating technology



- 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

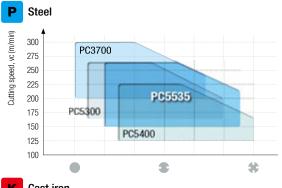


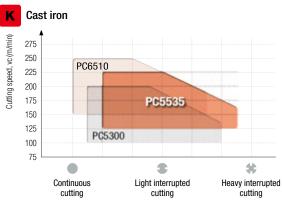


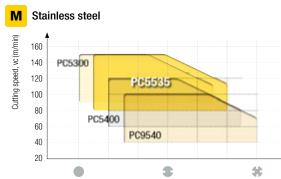


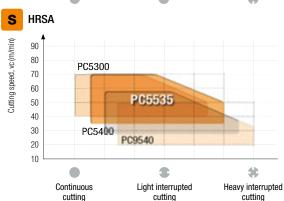
- Preventing welding, chipping and unexpected fracture
- Longer tool life and stable cutting

(Application range)





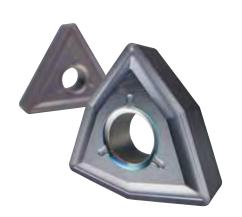






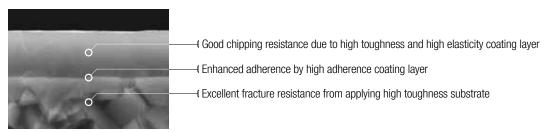
Stainless steel Turning insert

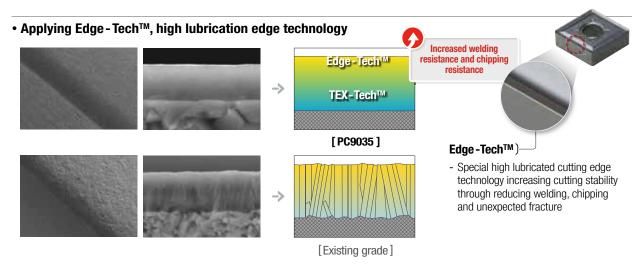
- Optimally designed PVD grade for medium to finish cutting and interrupted cutting of Stainless steel turning
- High stability of cutting due to applying high toughness PVD coating layer technology with chipping resistance and fracture resistance
- Good chipping resistance and welding resistance in the beginning of cutting through the Edge-TechTM technology

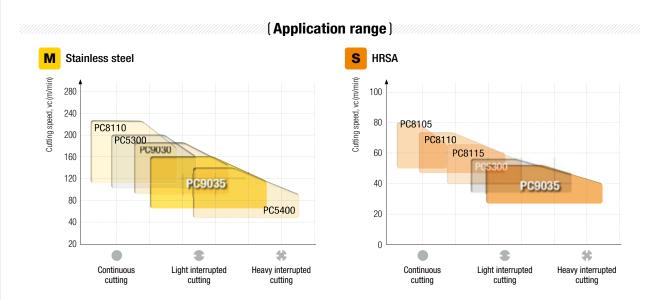


(Features)

Applying TEX-Tech™, high toughness PVD coating layer technology

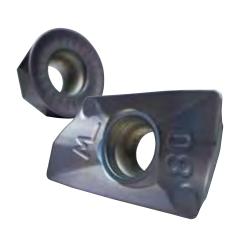




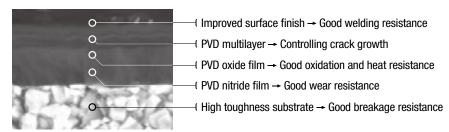


Insert for Hard-to-cut Stainless steel Milling

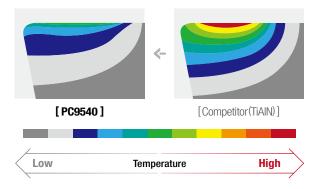
- Longer tool life due to higher breakage resistance applying high toughness substrate controlling crack growth
- Excellent and new PVD oxide film with oxidation and heat resistance overcoming the limit of hard-to-cut materials machining
- Stable machinability by preventing welding and chipping due to applying special coating surface treatment



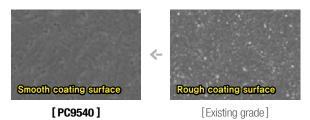
(Features)



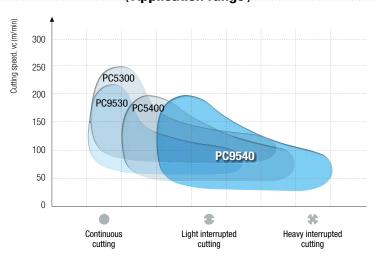
New PVD oxide film (comparison of thermal conductivity)



Special coating surface treatment technology



(Application range)





CC1015/CC1025

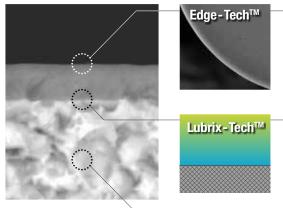
PVD Cermet for Steel Turning

- Ensured stable tool life from applying Lubrix-Tech™
 (high hardness and lubrication PVD coating technology) for increasing flank wear resistance on nose radius
- Smooth cutting surface from applying Edge-Tech™
 (high lubrication cutting edge treatment technology) to prevent welding and chipping



(Features)

Applying exclusive PVD Lubrix-Tech™ and Edge-Tech™ technology



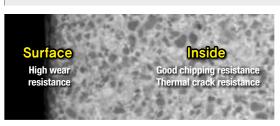
-(Edge-Tech™

- 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

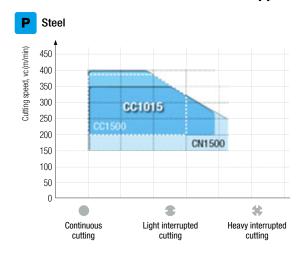
Inclination functional substrate

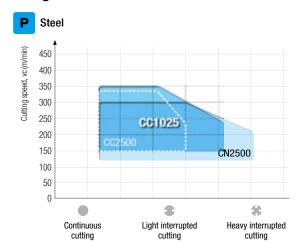


- Inclination functional layer creation with the surface and internal composition's microstructure control
- High chipping resistance and stable tool life

Hardness rate comparison chart 120 CC1015/CC1025 Conventional grade 0 0.1 0.2 0.3 0.4 Distance from the pellet surface (mm)

(Application range)





Hexa Blade

Grooving and Parting tool with precision 6 corners

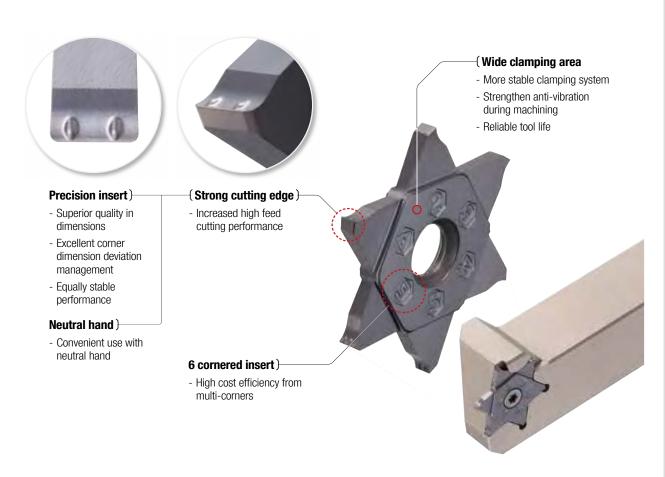
- · Grooving and Parting tool with high economical 6 corners
- · Increased reliability and stability in cutting due to high qualified cutting edge



(Features)

• 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



→ Type



InsertCutting width: 1.78 ~ 4 mm



Shank

Diameter: 20, 25 mm



Saw Man-X

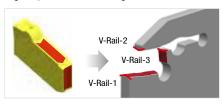
A solution for Parting and deep Grooving

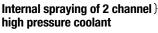
- · Stable machining in deep grooving applying clamping system with strong three-way V-Rail
- Improving clamping precision and convenient replacing of inserts with using the exclusive wrench



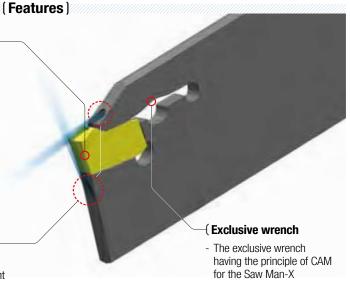
Three-way V-Rail)

- Tightly clamped inset 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





- 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)



- More convenient clamping system

(Chip breaker features)

Туре	Shape	Cutting edge	Features
N Chip breaker		110	1st recommended in Steel and Cast iron cutting Negative land cutting edge For interrupted and high feed cutting
S Chip breaker		110	1st recommended in Stainless steel and HRSA cutting Sharp cutting edge For high speed and continuous cutting
N Chip breaker (Lead angle type)		110	Optimal for pipe and round bar cutting Negative land cutting edge applying lead angle Minimized burr and size of PIP





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



Blade Blade hight: 26, 32 mm



Blade [High pressure coolant] Blade hight: 26 mm



Shank Shnak hight: 16, 20, 25

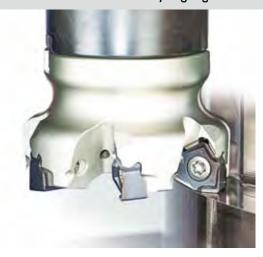


Block Block hight: 26, 32 mm high pressure coolant Block Block hight: 26 mm

RM₆

Double-Sided 6-Corner Shoulder Milling Tool

- · 3 clamping surfaces on the side and strong clamping screws
- · High precision, excellent perpendicularity, outstanding surface finish on the flank, accurate tolerance
- · High rake angle and sharp cutting edges for lower cutting resistance



(Features)

Streamlined holder design)

- Improved chip evacuation in deep shouldering and slotting

Through coolant system)

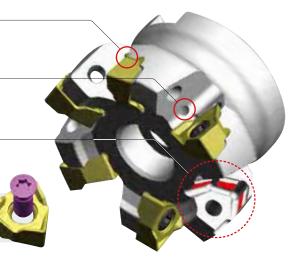
- Improved chip flow and tool life thanks to insert cooling

3-side supporting system)

- Stable tool life

Strong clamping screws

- Strong clamping screws enable rigid clamping



Higher clamping stability)

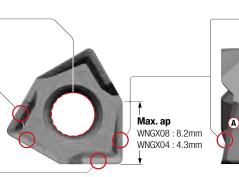
- Wide clamping areas and strong clamping screws for rigid clamping

High rake angle chip breaker

- Maintains stable clamping
- Induces smooth chip flow → Increases insert

Wide minor cutting edges)

- Improved surface finish
- Enable multi purpose machining incl. plunging



High rake angle cutting edges

Improved machinability and reduces cutting resistance

3-level flank relief surface)

- Enhances rigidity and enables stable clamping
 - → Improves cutting stability



Cutter Ø40 ~ Ø125



Shank Ø20 ~ Ø50



RM8-X

High helix face Milling tool with 8 cornered double-side inserts

- High performance in Stainless steel machining due to sharp cutting edge and double reverse positive relief surface structure
- Economic tool by double-sided 8 corners and high helix right-handed shape realizing high depth of cut machining



(Insert features)

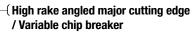


(High Helix)-

- Improved surface finish
- Reduced cutting loa

(Variable minor cutting edge chip breaker

- Protects its corner on the opposite side
- Enhanced chip control



- Maintain its machinability in high depth of cut
- Enhanced chip control



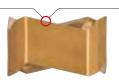


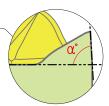




Reversal positive relief angle at the Major cutting edge

- Protects its corner on the opposite side
- Increased chipping resistance and prevents unexpected breakage





(Cutter features)



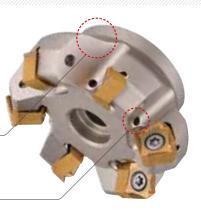
Internal coolant system >

- Improved chip evacuation
- Tool life increase with the inserts' cooling



Steamlined cutter design)

- Improved chip evacuation





Cutter Ø50 ~ Ø125

RM14

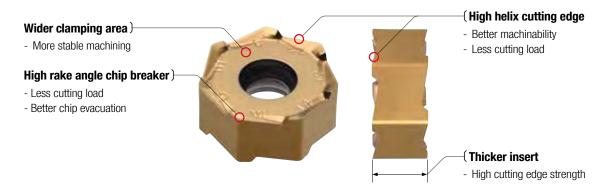
Heptagonal face Mill with 14 double-sided corners

- 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



(Insert features)

- Wide supporting area of insert ensures stable clamping system.
- High rake angle cutting edge reduces cutting load and increases chip evacuation.
- Thicker insert realizes stability in machining.



(Cutter features)

- The biggest heptagonal lead angle reduces chatter in machining.
- · Wedge type clamping system ensures stable clamping.
- Stepped machining is available without interruption of side wall of insert.



The biggest heptagonal) lead angle

 Reduced workpiece chattering by reducing axial force



Preventing interruption) of side wall

 Prevented interruption of side wall by using the most number of corners in deep facing (heptagonal 14 double-sided corners)



(Internal coolant system

- Improved chip evacuation
- Increased tool life due to cooling insert



Wedge clamping system

- Stable clamping system with an acute angle structure





Cutter Ø50 ~ Ø160





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 are usable due to applying doublesided structure
- Good surface finish The optimal minor cutting edge ensures good surface finish
- Stable tool life The exclusive structure preventing rotation ensures stable machining



- Good machinability with high depth of cut
- Improved chip control

Internal coolant system) - Longer tool life due to insert cooling







Cutter Ø50 ~ Ø125



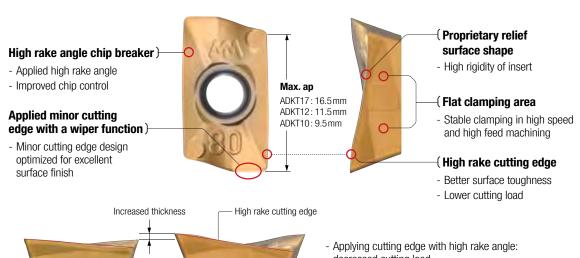
Alpha Mill-X

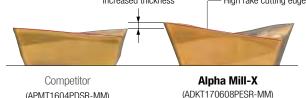
Shoulder Milling tool for high helix

- High helix cutting edge realizes 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)





(APMT1604PDSR-MM)

- decreased cutting load
- Thicker insert: high rigidity of insert
- → Optimal for high speed and high feed machining

(Cutter features) (High rake angle Perfect cutting edge perpendicularity - Improved surface finish - Decreased cutting load Wider chip pocket) - Maximized chip control - Outstanding chip control in high speed and high feed machining



Cutter Ø40 ~ Ø125



Shank Ø16 ~ Ø40



Triple Mill

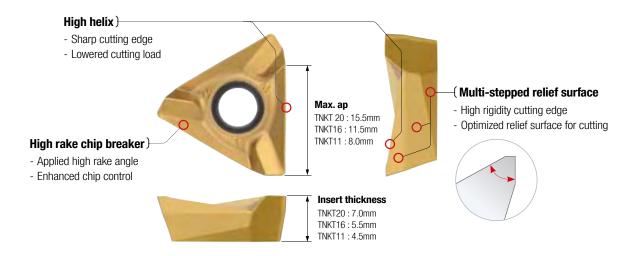
High depth of cut Milling tool with 3 corners for perpendicularity

- · Economical Milling tool with 3 corners with positive cutting edge for high depth of cut machining
- Stable machinability in high feed machining due to enhanced chip evacuation and thicker insert
- High precision machining from less cutting load due to high helix and sharp cutting edge

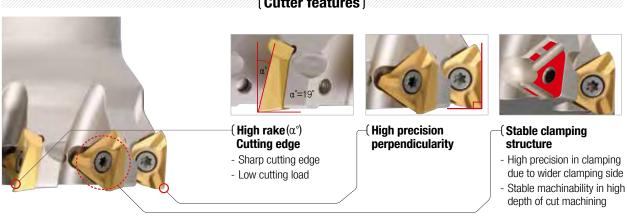


(Insert features)

- Economical insert with 3 corners due to high depth of cut cutting edge
- · Lowered cutting load and enhanced chip evacuation by sharp chip breaker and high helix cutting edge
- Stable machinability even in high cutting conditions from high rigidity design







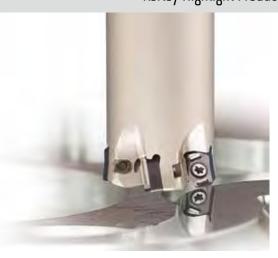




HFMD

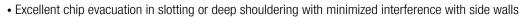
High feed Milling tool with 4 corners for small diameter

- 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



(Insert features)

· Available for high feed machining with the increase in the number of teeth per cutter diameter

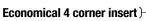


Highly efficient insert due to fine pitch)

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



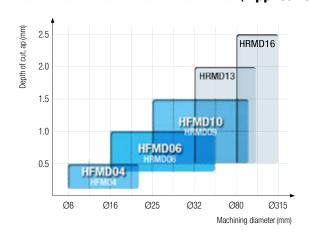


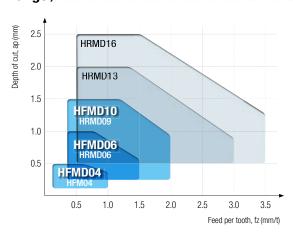


- Can use 4 corners with 1 insert by utilizing front/ back face; High feed due to finer pitch



(Application range)







Cutter Ø32 ~ Ø100



Shank Ø8 ~ Ø42



Modular Ø10 ~ Ø42



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
- 2 different inserts, optimized for the central and peripheral insert locations in order to maximize cutting tool life



(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



KING Drill

For through coolant system with a lathe

Drill with through coolant system for general lathe and CNC lathe without through coolant system

- Through coolant system with Drill holder, plug, oil-hole hose and oil-hole pump
- PT Tap in the plug is combined to PT Tap connected to oil hose.

Holder

· Available to use the Drill without a plug in Milling machine

MXp

• Clamping oil hose to the bottom of plug and connect the oil pump to the holder

Plug

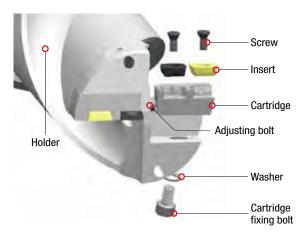
Oil pump

KING Drill

For large diameter Drilling

High rigidity drill produces cost efficiency due to cartridge replacement

- Cartridge type for Ø61~Ø100 Drilling
- Peripheral cartridge can adjust the Drilling diameter within 5 mm
- Easy to adjust Drilling diameter with adjusting bolt







KING Drill [2D/3D/4D/5D] Ø12.0 ~ Ø60.5



KING Drill
(For through coolant system with a lathe)
[2D/3D/4D]
Ø13.0 ~ Ø29.5



KING Drill
(For large diameter Drilling)
[2D, 3D, 4D]
Ø61.0 ~ Ø100

TPDB Plus Drill

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

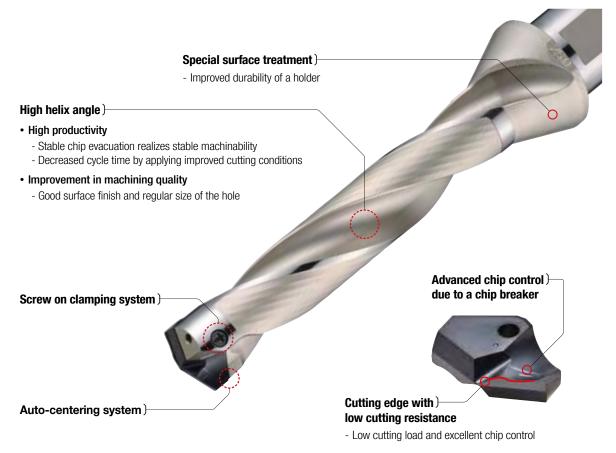
High-quality and high efficiency top solid indexable Drill

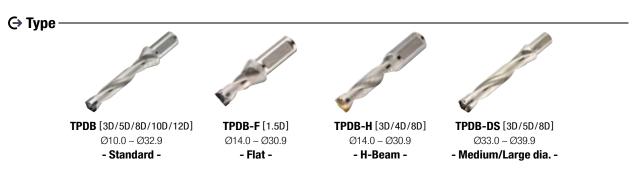
- Improved productivity and excellent machining quality through stable machining
- Versatility in machining various surfaces, structural Steel, and medium / large diameter machining



(Features)

- Highly precise clamping system Superior clamping precision with auto-centering system and highly precise grinding clamping parts
- Screw on clamping system Easy to replace inserts
- Sharp cutting edge Low cutting load and good chip control
- Holder with excellent durability Holder with high rigidity and excellent wear resistance due to special surface treatment
- · Holder with excellent chip control Low cutting resistance and outstanding chip evaluation by applying high helix angle







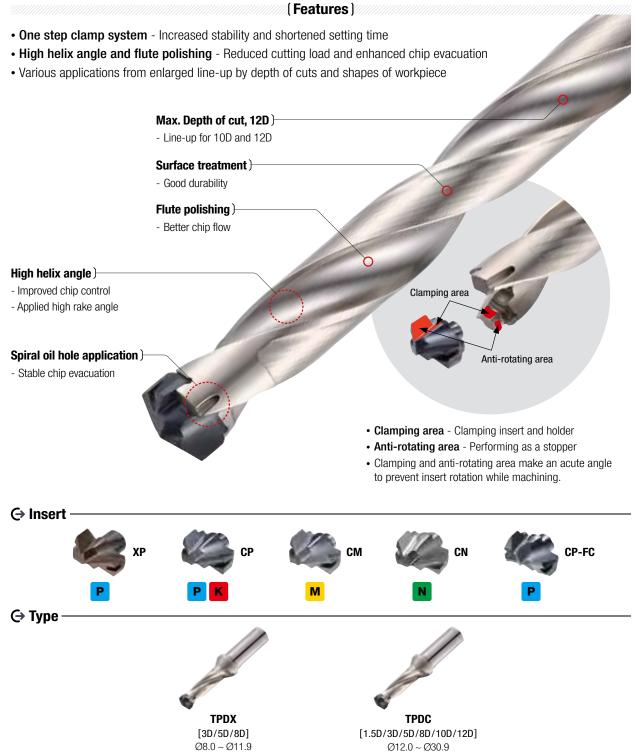
TPDC Plus Drill

(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





The Mirror Endmill

High precision mold manufacture solution

- For medium cutting of high precision workpiece and mold machining above HRC60
- Enhanced wear resistance from applying the optimal grade for PCD, cBN



(Features)

PCD Endmill

For polishing of high precision workpiece and high hardness mold

- · Optimal surface finish by PCD ball Endmill with no edge
- Nano-level surface finish due to its ultra-fine Endmill
- Enhanced wear resistance from applying the optimal grade for PCD



cBN Endmill

For ultra-fine and mirror-like workpiece and mold with over HRC60 machining

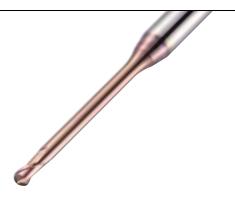
- · Higher productivity and surface finish in high speed cutting
- Enhanced wear resistance due to the optimal cBN grade
- · Longer tool life by shape with strong cutting edge
- Stable tool life and surface from high precision Endmill

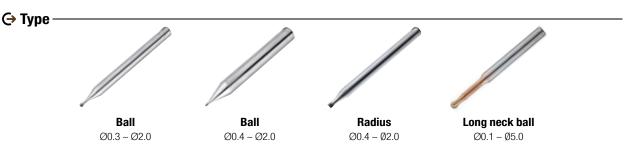


H-Star Endmill

Proper for the various cutting processes with long neck, rib and taper neck etc

- Stronger cutting edge strength of the tool applied ultra-fine substrate
- Enhanced high temperature heat resistance by applying new coating layer on the edge in high speed cutting
- Stable cutting performance due to the optimal cutting edge for high speed machining



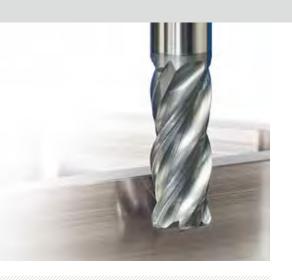




Super Endmill

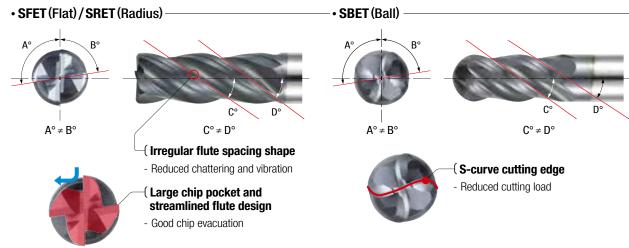
Endmills series for Difficult-to-cut materials (Ti and HRSA)

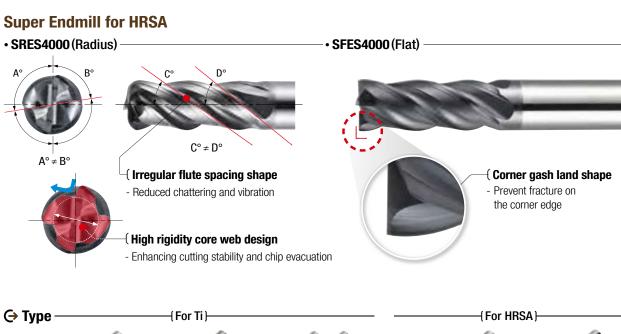
- Machining HRSA and Ti components like engine, turbine and etc. used in aerospace and power generation industries
- Optimal for difficult-to-cut materials machining due to reduced cutting heat and enhanced chip evacuation



(Features)









H-Star Endmill

Endmill for High hardness Steel cutting

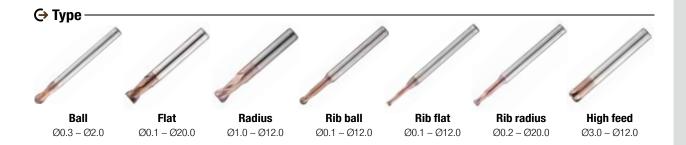
- Stable cutting from High hardness substrate and exclusive new coating layer with good wear resistance application
- Improved initial chipping resistance with optimized edge treatment for high hardness Steel cutting



(Features)

- **High hardness coating layer** Ensuring stable cutting from high Si content, increased wear resistance and frictional heat resistance due to applying a new AITiSiN series coating layer
- **High hardness substrate** Containing ultra-fine WC + Co 9% and expanded general application range by maximizing cutting edge feature



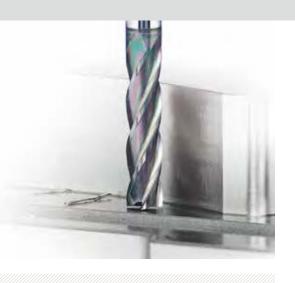




U-Star Endmill

General use Endmill for Medium hardness and Alloy steel cutting

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



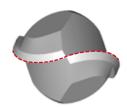
(Features)

- Carbide Endmill for HRC30~50 medium hardness steel and die Steel cutting
- Enhanced wear resistance, anti-oxidation and lubrication by applying AICrN 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 tolerance 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)

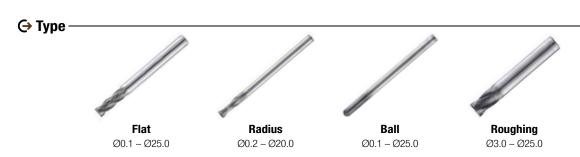
- Enhanced chipping resistance in the beginning of cutting
- Guiding stable cutting for managing the properties of mold machining





AICrN base new coating)

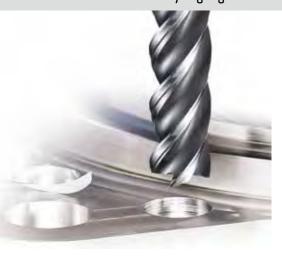
- Increased wear resistance and oxidation resistance by multi layer
- Enhanced lubrication with Cr containing
- Stable cutting under frictional heat



S-Star Endmill

Endmill for Stainless steel machining

- · Suitable for difficult to cut material such as STS, Ti, Ni and Inconel
- New coatings with high oxidation resistance and surface hardness
- Advanced surface roughness with improved chip emission and deposition resistance



(Features)

- Stable high speed processing with minimum vibration, unequal index and optimal rake angle
- High processability and low vibration by applying unequal index in cutting edge
- Minimum vibration through optimized helix angle and R gash, enhanced chip emission with stiffness supplementation
- Reduced friction resistance and improved chip emission by applying new coatings with high surface hardness oxidation resistance



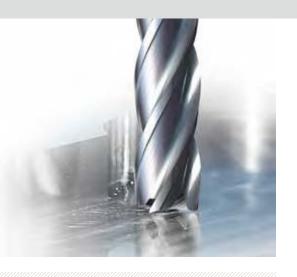




G-Star Endmill

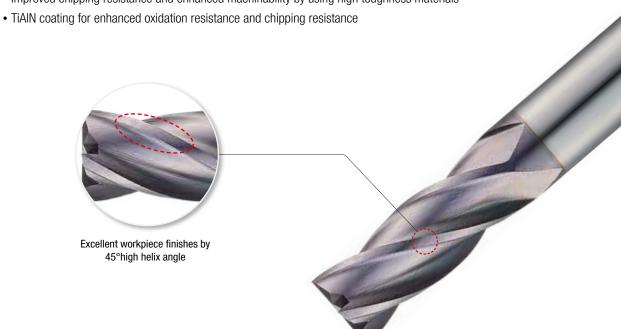
Endmill for Low hardness

- Suitable for low hardness Steel (HRC10~30): Alloy steel, Carbon steel, Pre-harden steel etc.
- · General purpose suitable for rough machining, finishing and curved and sloped surfaces



(Features)

- Excellent rake angle and cutting edge considered the characteristics of workpiece
- Improved chipping resistance and enhanced machinability by using high toughness materials



Performance evaluation

Workpiece	Carbon steel (STC3)	
Cutting condition	vc (m/min) = 140, fz (mm/t) = 0.02, ap (mm) = 10.0	
	ae (mm) = 0.4, dry	
Tool	ZE304100P (Diameter = Ø10 mm)	
•		



[G-Star Endmill]

[Competitor]



A-Star Endmill

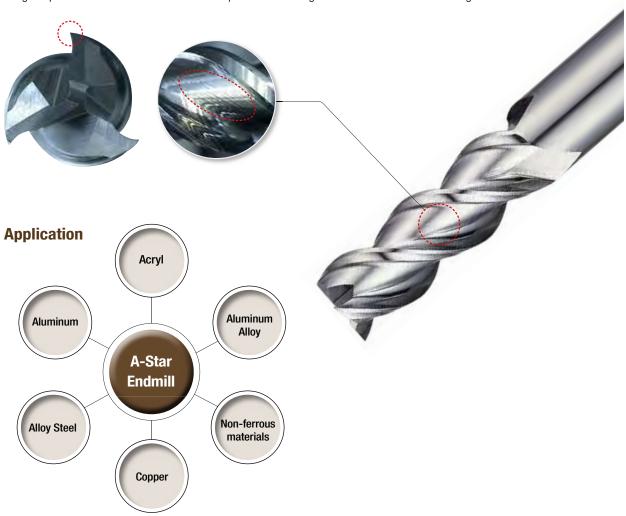
Endmill for Aluminum machining

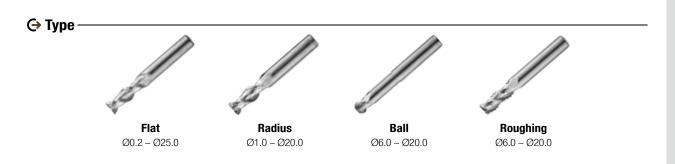
- · Suitable for Aluminum, Aluminum alloy and Non-ferrous materials
- Various specifications in the line such as ball, single flute and roughing etc. for wide range in machining



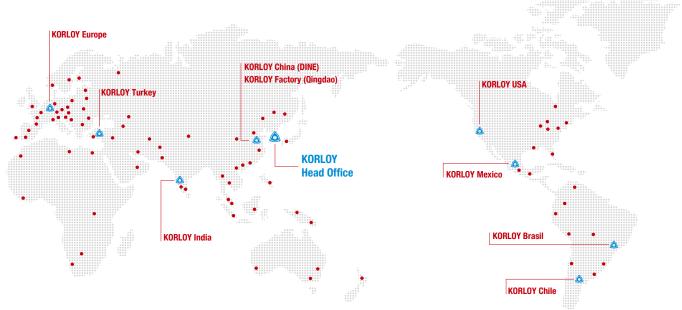
(Features)

- Sharp cutting edge considered the characteristics of workpiece
- High deposition resistance and enhanced chip emission through the surface of a mirror in the groove









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