New Product

HIGHEST QUALITY

Korloy's New And Best-Selling Products



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Korloy's New And Best-Selling Products



NEW PRODUCTS

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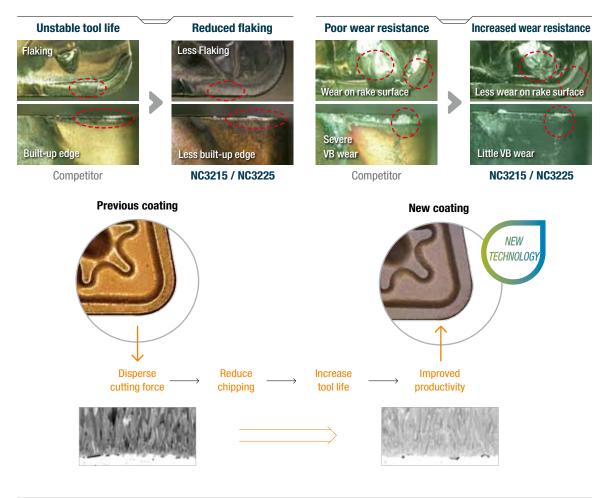


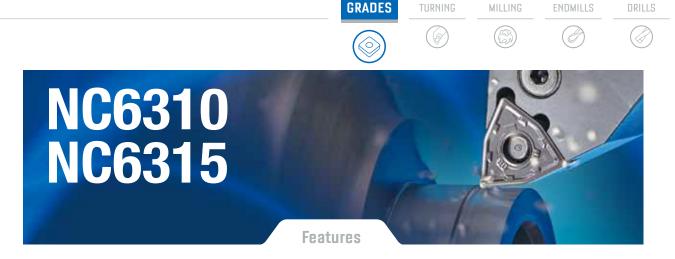
NC3215 NC3225 NC3225

- Universal grade especially for machining forged automobile components and bearing steel both in continuous and interrupted cutting
- Available for all kinds of steels carbon steel, alloy steel, rolled steel, tool steel, mild steel, bearing steel and other special kinds of steel
- New coating technology increases welding resistance and chipping resistance, which leads to longer tool life

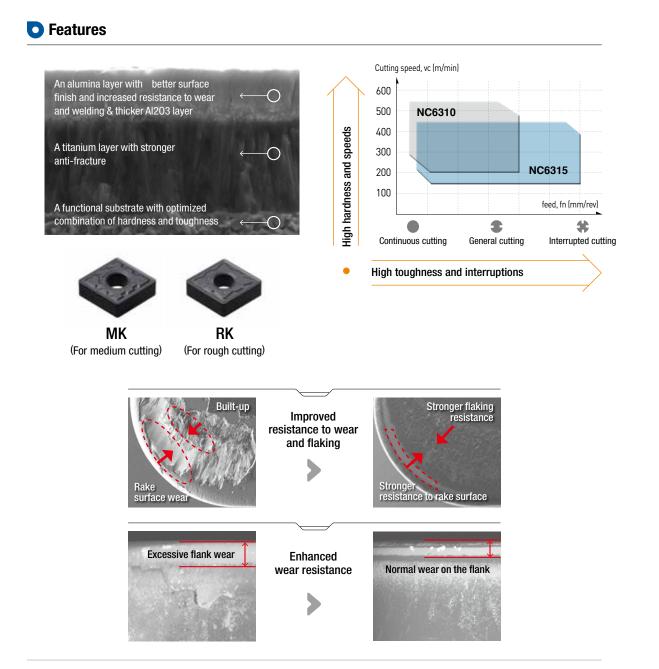
Features

- Stable tool life
 - \rightarrow Higher production stability
- · Longer tool life & Higher removal rate
 - \rightarrow High cutting conditions and shorter cutting time available
- Ideal combination of a grade and chip breakers
 - \rightarrow Prolongs tool life
 - \rightarrow Wide applications ranging from roughing to finishing





- Boosted productivity due to K10 & K15, the CVD-coated grades optimized for high speed and feed turning applications of cast iron
- MK chip breaker for medium cutting and RK chip breaker for roughing cast iron at high speeds and high feeds, wet or dry



NC9115/NC9125 NC9135

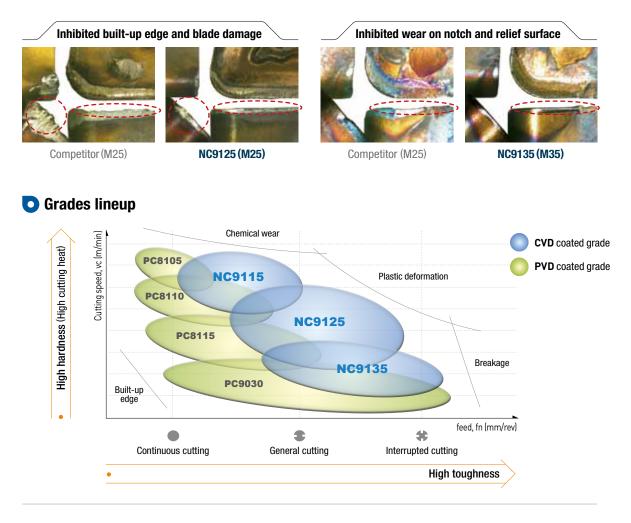
- Optimized for reducing built-up edges, notch wear, plastic deformation and burrs, and for machining stainless steel
- Ideal combination of a grade and MM/RM chip breakers for stable tool life and wide applications ranging from roughing to finishing

Features

- Stable tool life even at high speeds, feeds and depth of cuts (for STS316, vc over 150m/min available), shortening cutting time
- Excellent versatility responding to workpiece change, covering the austenite, the martensite and the ferrite

Features

- Coated layers of stronger chipping resistance and the substrate of high toughness \rightarrow Inhibited notch wear creation
- Lubricative coating layers → Improves welding resistance



PC2005/PC2010 PC2015

Features

GRADES

TURNING

MILLING

ENDMILLS

DRILLS

- Finishing grade lineup for tool steel and plastic die steel
- PC2005 with extremely hard substrate and coatings
- PC2010 with high hardened cutting edges, ideally suited for pre-hardened steel and interrupted cutting
- PC2015 for carbon steel and casting machining, demonstrating excellent performance in hard-to-cut materials

Features

• PC2005 (For high hardness workpiece and press die steel)

Super high hardness substrate and coating improve wear resistance dramatically.

→ High hardness substrate prevents chipping and wear on relief surface.

· PC2010

(For pre hardened steel and plastic die steel)

Ultra fine WC and high contents cobalt were applied to the substrate to expand application range to high hardness steel and pre hardened steel.

→ Heat shield coating was applied to prevent thermal crack.

· PC2015

(Exclusive for Laser Mill for machining cast iron and carbon steel)

High toughness substrate based grade for general cutting of cast iron and HRSA with the use of lubricative coating layer.

→ High toughness substrate and coating layer less responsive to workpiece applied.





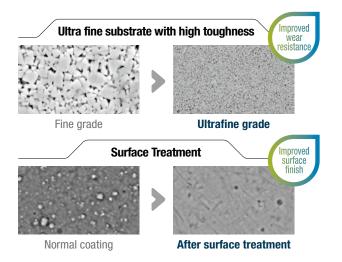
PC2505 PC2510

Features

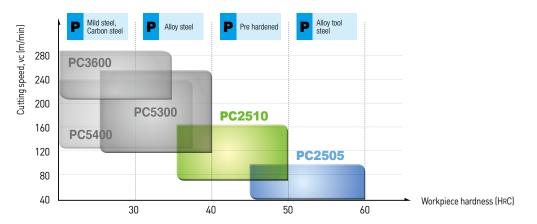
- Roughing grade series for high hardened steel
- PC2505 with excellent wear resistance, ideal for machining die steel and high hardened steels over HRC50
- PC2510 with stabilized toughness, ideal for interrupted cutting of high hardened steel and wet cutting accompanied by massive thermal shock

Features

- PC2505 Ideal for heat treated steel and high hardened steel due to excellent wear resistance
- PC2510 Ideal for high hardened steel and pre-hardened steel thanks to excellent impact resistance



Application guideline per workpiece





GRADES

TURNING

MILLING

ENDMILLS

DRILLS

- PVD-coated grade specialized for milling applications of cast iron
- Stable tool life due to the minimized life deviation between inserts

O Features

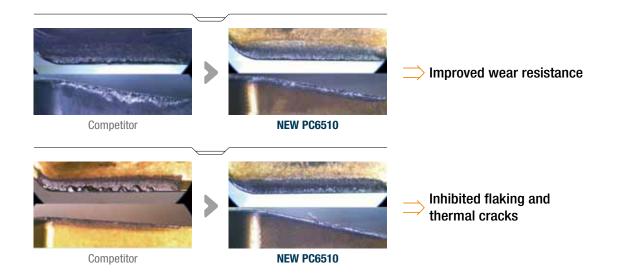
- Extended cutting time due to the highly wearresistant TiAIN coating
- Stable performance due to the highly wearresistant and anti-fracture substrate for general cutting of cast iron
- Flaking and thermal cracks inhibited by the coating surface treatment



General coating

Surface treatment applied

cracks



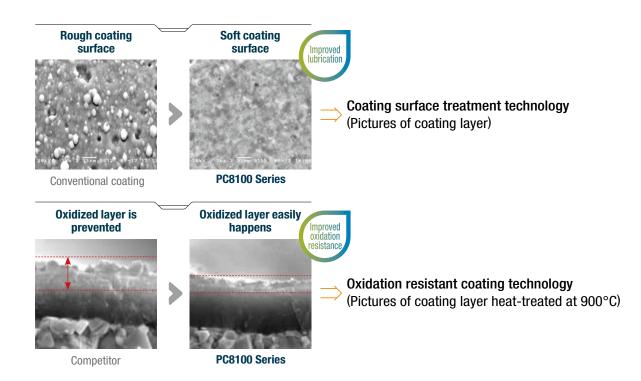
PC8105/PC8110 PC8115

Features

- Turning grade for heat resistant alloy and stainless steel
- Latest PVD coating technology with high hardness and high temperature oxidation resistance

Features

- PC8105 Micro grain carbide minimizes chipping of cutting edge due to enhanced edge strength
 Excellent tool life when finishing heat resistant alloys and stainless steels at high speeds
- PC8110 Substrate with superior wear resistance and plastic deformation resistance at high temperature
 Long tool life when machining heat resistant alloy and stainless steel at high speed
- PC8115 Ultra fine matrix technology increases wear resistance and chipping resistance.
 - Strong cutting edge and excellent chipping resistance guarantees stable machining
 - Long tool life when machining heat resistant alloy and stainless steel at middle to low speed and medium cutting to roughing



CC1500 CC2500 **Features**

GRADES

TURNING

MILLING

ENDMILLS

DRILLS

High Performance Coated Cermet Grade for Machining Carbon Steel, Alloy Steel and Sintered _ Ferrous Alloy

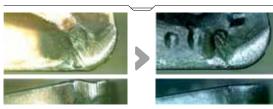
Features

CC1500

- Maximized resistance to built-up edge and _ oxidation in continuous cutting at high speeds and low depth of cuts
- Superior wear resistance vs. existing tools in _ continuous cutting of carbon steel and alloy steel

· CC2500

- Maximized resistance to built-up edge and _ oxidation in interrupted cutting at high feeds and high depth of cuts
- Superior impact resistance vs. existing tools in interrupted cutting of carbon steel and alloy steel

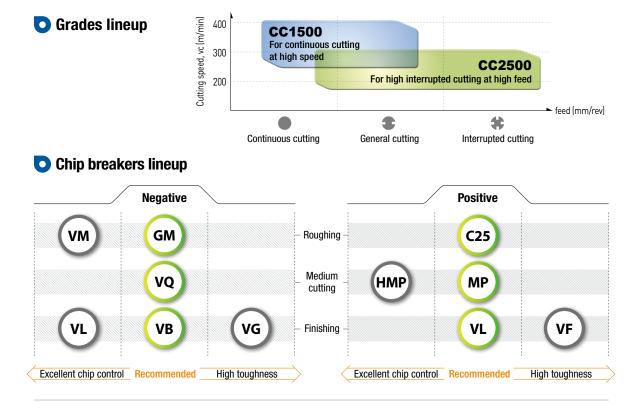


Competitor

CC1500

Competitor

CC2500





- High Performance Cermet Grade for Machining Forged Steel and Sintered Ferrous Alloy

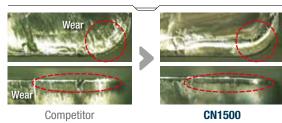
Features

• CN1500

- For continuous machining of cold/hot forged steel and Sintered ferrous alloy at high speed and low depth of cut
- Excellent wear resistance and crater resistance

• CN2500

- For high interrupted machining of cold/hot forged steel and Sintered ferrous alloy at high feed and high depth of cut
- Excellent resistance against chipping, fracture and thermal crack



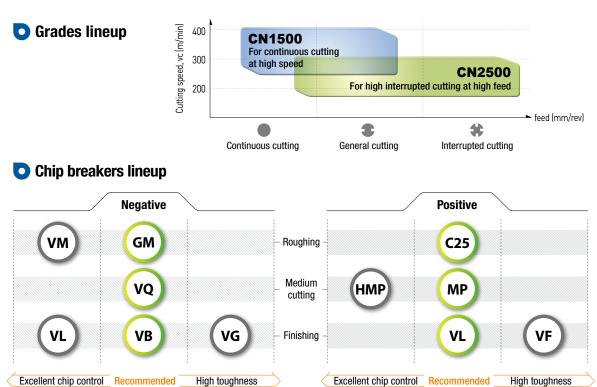
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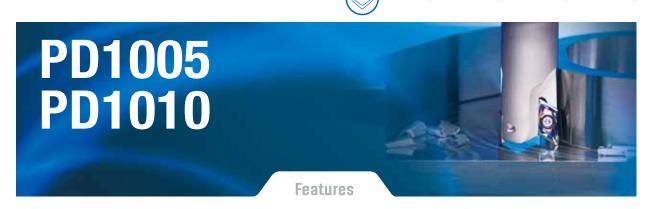
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Competitor

CN1500





GRADES

TURNING

MILLING

ENDMILLS

DRILLS

- DLC-coated grades for high speed and quality machining of non-ferrous metals such as _ aluminum and copper
- Maximized resistance to chipping and welding due to the dedicated grades and advanced -**DLC** coating

Features

- · PD1005
- Excellent surface finish when machining general non-ferrous metals (AI, Cu) at high speeds • PD1010 Stable tool life when machining hard non-ferrous metals (AI, Cu) or under interruptions _

Uncoated carbide



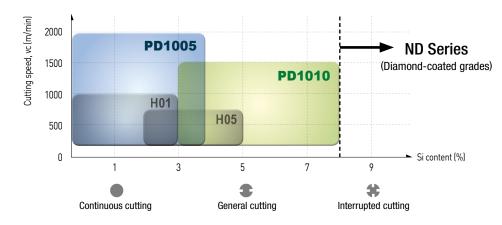


PD1005

Improved resistance to chipping and welding



Guideline for grades application



MP/LP Chip Breaker

Features

- Chip breaker for forged steel of automobile parts and normal steel
- Quad dots improve productivity through efficient chip control at high feed
- Angle land minimizes cutting force

Features of MP chip breaker

Front two step dot

- Higher stability of chip curls at high feed
- · Excellent chip control when copying
- Lower cutting force at high depth of cut

Variable land

- · Less crater wear
- Prevents chipping on minor cutting edge
- Higher toughness at high depth of cut and interrupted cutting

Features of LP chip breaker

Front dot

- Higher stability of chip curls at high feed
- Excellent chip control when copying
- Lower cutting force at low depth of cut and high feed

Variable land

- · Less crater wear
- Prevents chipping on minor cutting edge

• Larger chip pocket f

Flat zone

SECTION A-A

20°

Flat zone

- Larger chip pocket for better chip evacuation at high feed
- Reduced cutting force with larger contact surface of chips

Larger chip pocket for better chip evacuation at high feed

 Reduced cutting force with larger contact surface of chips

GRADES

TURNING MILLING

ENDMILLS

DRILLS

RM/MM Chip Breaker

Features

- RM chip breaker Prevents notch wear and burrs at high feeds and depths of cut
 - Reduced cutting force extends tool life in high feed machining
- $\ensuremath{\text{MM}}$ chip breaker $\ \ \mbox{The 1}^{\mbox{st}}$ recommended chip breaker for stainless steel machining
 - A dual land achieves sharp cutting performance and insert toughness

Features of RM chip breaker

Variable land

- Excellent chip control and sharp cutting at low depths of cut
- Delays crater wear
- · Prevents plastic deformation

Wide land & Gentle front angle

- Sharp cutting edges and a wide land reduce cutting force
- Reduced burrs
- · Dispersed cutting load enables higher toughness

Features of MM chip breaker

Variable land

- Excellent chip control and sharp cutting at low depths of cut
- Delays crater wear
- · Prevents plastic deformation

Wide chip pocket

- Stable chip evacuation at high speeds/feeds
- Improved surface finishes by reduced workpiece scratches caused by work-hardened chips at high depths of cut
- Prevents built-up edge

Dual land

Stepped design

evacuation easier

plastic deformation

Stepped design makes chip

· Smooth chip evacuation prevents

- Balance between requirements of sharp and tough cutting edges
- Sharp cutting edge for high speed machining
- Prevents chipping in interrupted machining

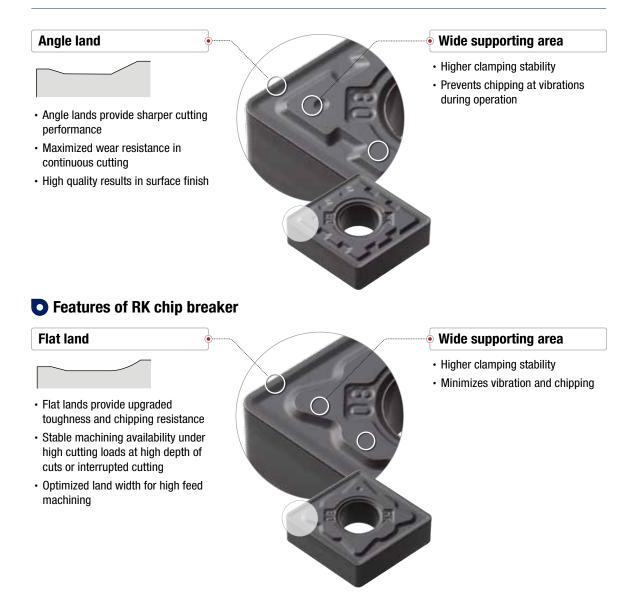
MK/RK Chip Breaker

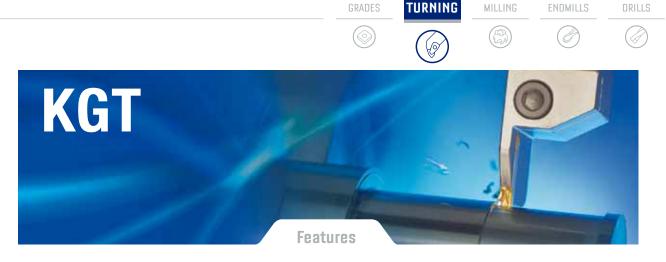
Features

MK chip breaker - Angle lands provide upgraded surface finish

- RK chip breaker Ideally suited for high speed / high feed cutting of ductile cast iron and gray cast iron
 - Flat lands provide upgraded toughness and chipping resistance

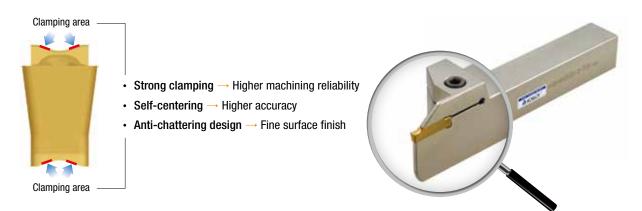
Features of MK chip breaker

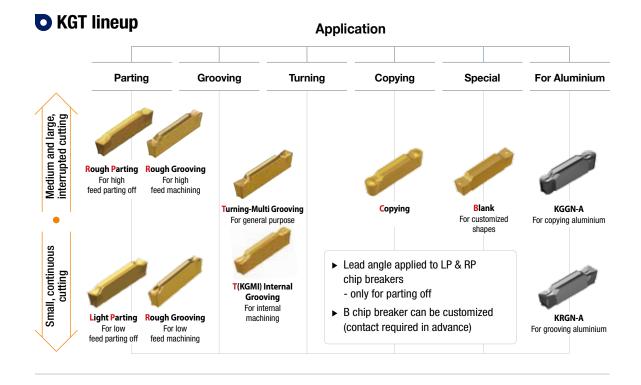




- Double-sided inserts of KGT reduces machining cost
- Strong clamping system ensures stable and accurate machining
- The foreside and clearance face of the KGT insert having cutting edges are optimal for grooving, parting-off, turning and facing with reducing processing time
- Three-dimensional chip breaker ensures excellent chip control in various applications

O Top side (Insert)





KGT Blade

Features

- Parting application with the use of existing KGT inserts
- Economical machining with a double sided insert
- Specially designed slot for strong and stable clamping
- Easy change of insert with the use of exclusive wrench

Specially designed slot · Strong clamping and durability Easy change of insert Wide clamping area · Better stability $(1) \Rightarrow (2)$ Rotation: Release How to clamp insert $(2) \Rightarrow (1)$ Rotation: Conclusion Insert the pin of wrench into Clamp the insert on its seat after turning Finish clamp by removing the wrench the handle to $45^{\circ} \sim 160^{\circ}$ for loosening the seat. the hole of blade. after moving it back to its original state. **D** Blade lineup Range of cutting edge width: 1.5 ~ 8.0mm

4.0mm type

5.0mm type

6.0mm type

8.0mm type

Features

1.5mm type

2.0mm type

3.0mm type



GRADES

TURNING

MILLING

ENDMILLS

DRILLS

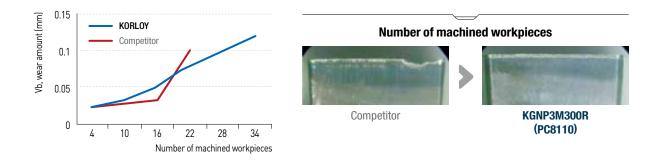
- Strong clamping force for grooving highly hard workpieces or hard-to-cut materials
- Excellent surface finish and tool life due to the lubricative cutting edges in uniformly high quality
- Grooving applications available in extra high precision
- A wide selection provided including a coated grade and cBN grade



· Lower cutting load due to the lubricating treatment

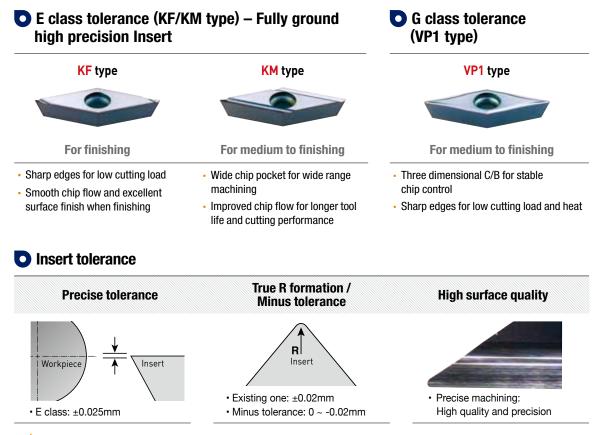
O Performance evaluation

Workpiece	Ti6AL4V, external grooving	
Cutting conditions	vc (m/min) = 80, ap (mm) = 3, fn (mm/rev) = 0.1, wet	
	154% longer tool life compared to the competitor's	

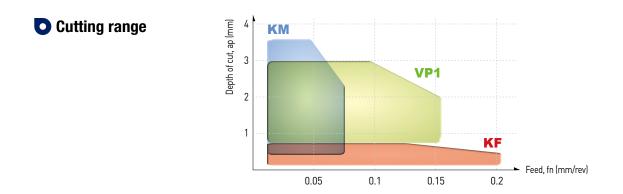


AUTO TOOIS Features

- High precision machining of small parts and complex forms, etc.
- High quality products through stable machining
- Exclusive insert for automatic lathes



ightarrow Offset adjustment is not required by insert change, due to the same insert height ightarrow Increased productivity



GRADES

TURNING MILLING

ENDMILLS

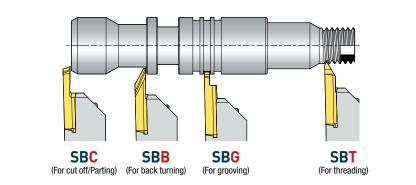
DRILLS

AUTO Tools Blade

Features

- Blade insert for automatic lathes
- For external machining of precise small parts
- 4 types SSB (for back turning), SGB (for grooving), SBT (for threading), SBC (for parting off)
- Convenient use of one holder to all blade inserts

• Application example



Types of blade insert



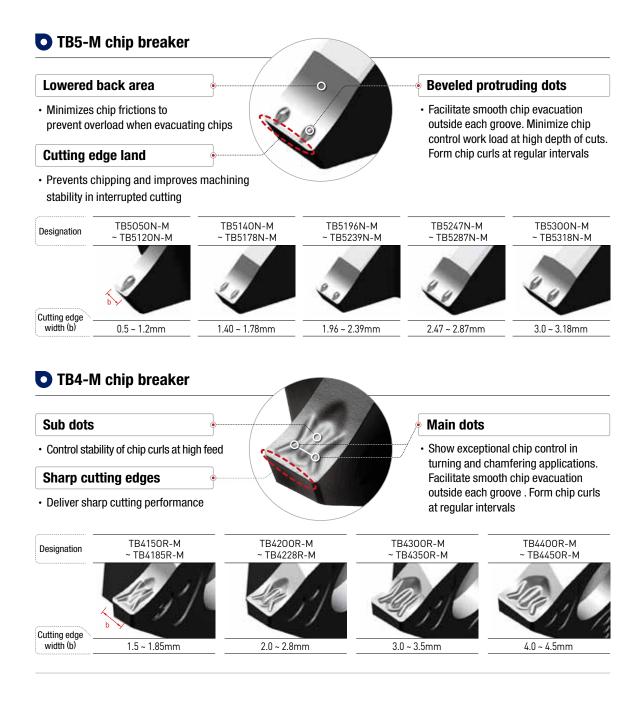
O Blade holder

Screw holes on both sides Easy to exchange inserts → Improved productivity Insert corner change Tolerance repetition ±0.001 Within → Save setting time





- Minimized cutting force at high speed and high feed → Smooth chip evacuation outside each groove
- High precision cutting performance \rightarrow Exceptional surface finish and accurate dimensions
- Excellent chip flow and cutting results \rightarrow Ideal for automated and unmanned production



GRADES TURNING

MILLING

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DRILLS



- Stable clamping system enables stable machining and productivity
- Varied product line-up ensures wide application range
- Optimal shape and grade with high hardness for hard-to-cut material machining

O Features

- P-positive relief angle (11°) ensures high rigidity and high machinability in die steel and high-resistant alloy machining
- · Flat clearance face of insert prevents interference and revolution while machining
- · Optimal grades and chip breakers for various workpieces



Chip breaker

 Concave shape ensures wide chip pocket and lowers cutting temperature

Through-coolant system

- Superb chip evacuation
- · Low cutting heat ensures long tool life

Clearance face for preventing rotation

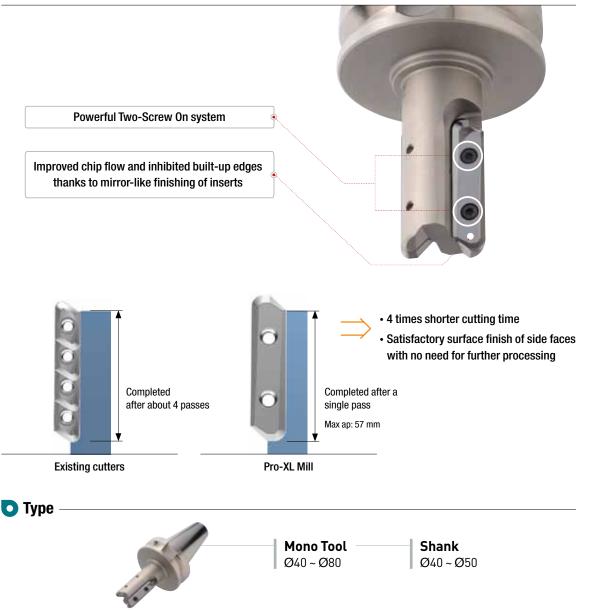
- · Prevents rotation in machining
- Divides corners
- · Prevents interference in high-feed machining
- · Ensures stable clamping

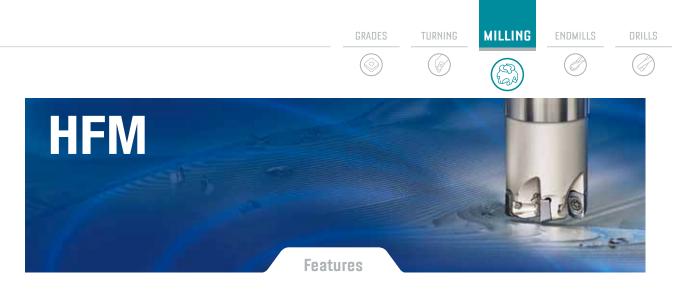




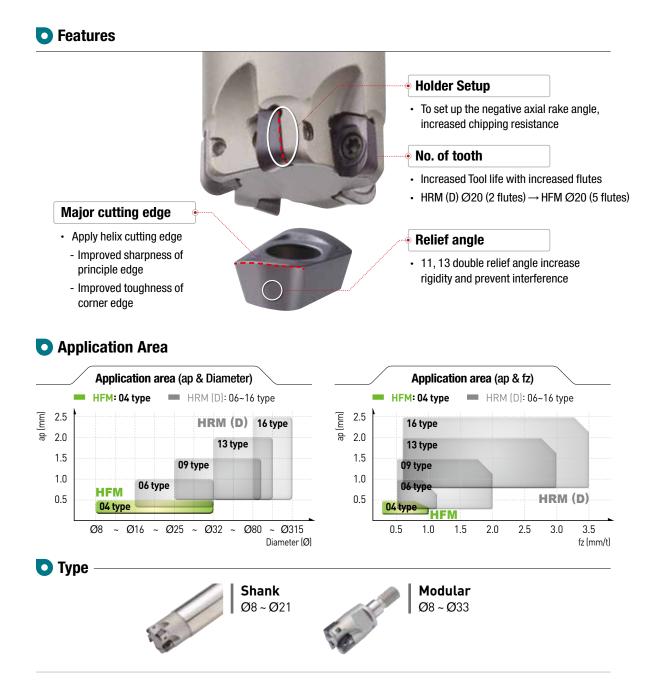
- Cutting time is shortened by finishing the process with a single pass of deep shouldering in aluminum machining
- The single pass of shouldering enables perpendicular side faces without unevenness
- Two-Screw On system secures clamping stability





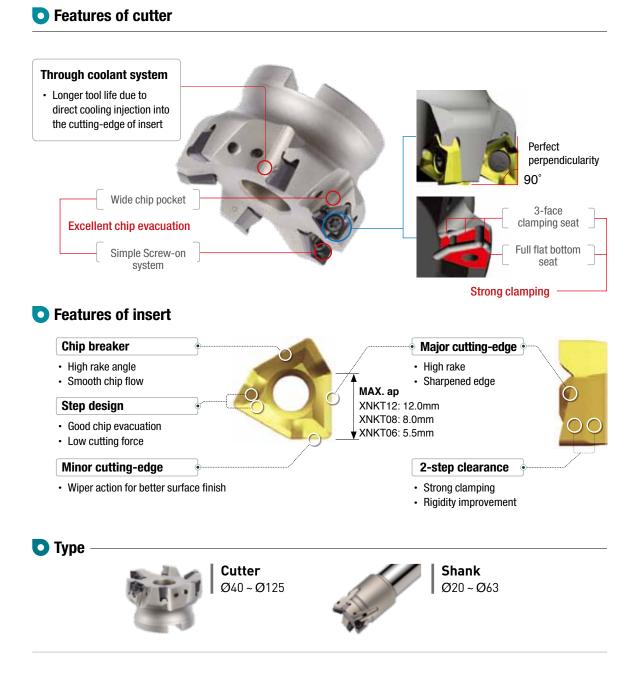


- Apply helix cutting edge on insert, low cutting load and reinforce toughness on corner
- Increased rigidity with double relief angle (11°, 13°), prevent interference with high feed
- To apply the negative axial rake angle when set up the holder, increased chipping resistance
- Tool life is increased with suitable C/B and grade for every material





- True 90° shouldering operation
- Strong thick insert and 3-face clamping ensure stable operation even tough condition.
- Long tool life due to optimized manufacturing process



GRADES

TURNING MILLING

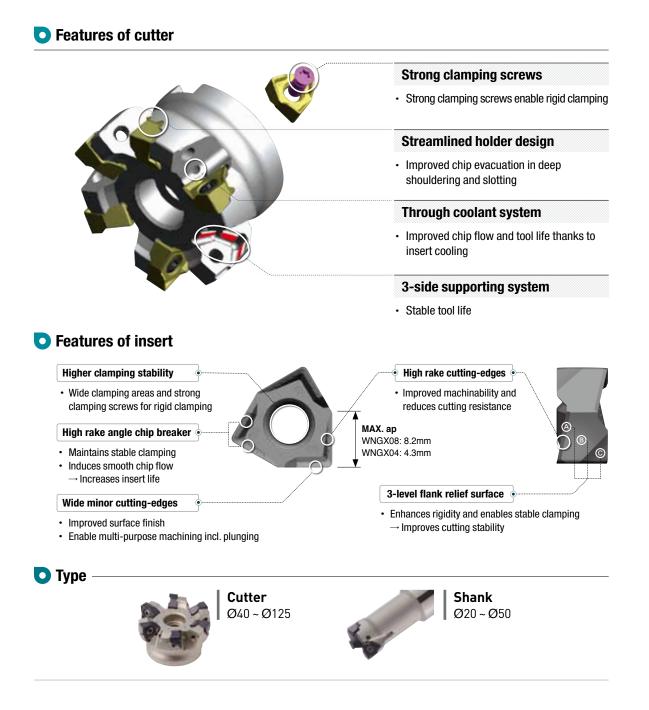
ENDMILLS

DRILLS

RM6 (Rich Mill)

Features

- 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



TP2P (Tangen-Pro)

- Clamping stability gained through tangential clamping system and wedge-shaped inserts

 Excellent surface finish nearly perfect perpendicularity, and highly even flank surface compared to competitors' designs

Features

 Improved productivity due to High-rake angles and sharp cutting-edges which lead to lower cutting resistance (Ideally suited for high speed and high feed machining)

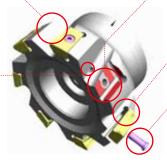
Features of cutter

Efficient holder design

 Smoother chip evacuation in slotting or deep shouldering

Through coolant system

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



Wide seat area

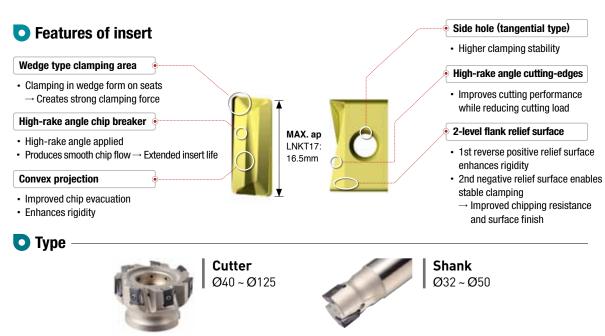
Strong clamping force

Wedge type clamping

Stable insert life

Tangential clamping

- Multi-corner use
 - \rightarrow High feed machining availability
- Tangential clamping system, wedge-shaped inserts and wide seat area
 → Higher clamping stability (Lower vibrations and cutting resistance during machining)
- Optimized H/D design with curved surface for smooth chip flow
 → Excellent chip evacuation in ramping or deep shouldering



GRADES

TURNING

ENDMILLS

H Endmill

Features

- For cutting high hardened and heat-treated steel under HRC70
- New coating technology improves wear resistance
- A new shape improves machinability
- High speed and highly accurate machining available

Features

• New grade (PC303S, PC310U)

Ultra fine substrate and AITiSiN coating guarantee excellent wear resistance

Special edge treatment

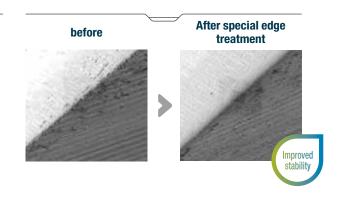
Special cutting edge design was applied for less chipping and longer tool life

• High accuracy with tolerance h5 High quality production system enables tolerance-h5 throughout the whole series

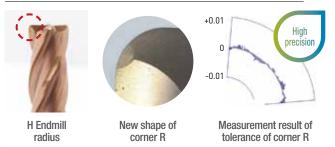




• The S shape of ball disperses cutting loads
 • The tolerance of ball R is under ±0.005mm



🖸 PRE (Radius)



The new shape of corner R reduces cutting loads

 \bullet The tolerance of corner R is under $\pm 0.005 \text{mm}$



Z Endmill

Features

- Endmill for general cutting of various workpieces under HRC45 (carbon steel, alloy steel, cast iron, pre-hardened steel, etc.)
- New shape and coating improves performance and tool life
- Optimized blade design for less chipping and stable machining

Features

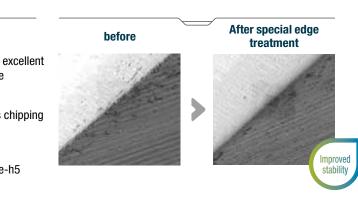
New grade (PC315E)

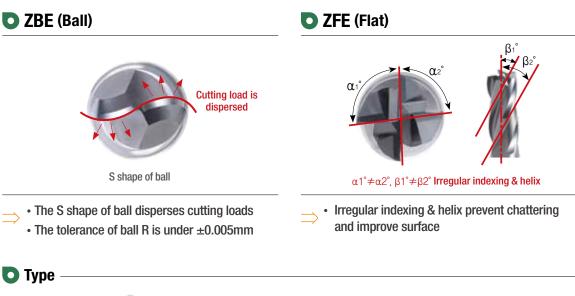
Fine substrate and lubricative coating guarantee excellent performance at high speed and high temperature

Special edge treatment

Special cutting-edge design was applied for less chipping and longer tool life

High accuracy with tolerance-h5
 High quality production system enables tolerance-h5
 throughout the whole series







T Endmill

Features

GRADES

TURNING

ENDMILLS

DRILLS

MILLING

- For machining dental prostheses made of zirconia, titanium, Co-Cr, wax, PMMA, etc
- Optimized cutting performance by matching a proper grade with each type of materials
- Inhibited unevenness and excellent finish in machined surfaces due to the optimized cutting-edge design
- Specialized tool shape for each machine type

• Features

- · A dedicated tool for each machine Meets marketplace demands
- A specialized grade for each workpiece Provides optimized performance for various materials of implants
- · Optimized cutting-edge design Enables excellent machinability

Tangential cutting-edge shape

- One-Pass Grinding applied
- · Inhibited unevenness and excellent finish in machined surfaces

Center-Matched ball shape

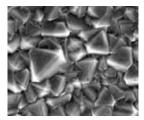
- Optimized center shape ensures relief
 angle at the ball point
- Cutting edges of the ball point shape provide excellent wear resistance and cutting performance

Grade solution for zirconia

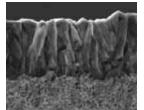
Development of ND3000 (Diamond-coated grade)

- High hardness diamond coating that is excellent in machining graphite and ceramic
- Optimized for high speed and medium duty cutting thanks to its excellent grip to coated layers

Surface of ND3000



High hardness diamond coating (Hv 10,000) provides excellent wear resistance



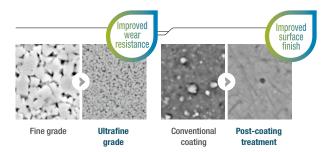
Cross section of coated layers

Specialized grade for Zirconia provides excellent adhesion

C Grade solution for titanium

Development of PC2510 (Coated grade for high hardened steel)

- Post-coating treatment was applied to improve surface finish
- A grade optimized for interrupted machining of high hardness steels and wet treatment accompanying high thermal shock. Its ultrafine substrate features high toughness which allows stable performance



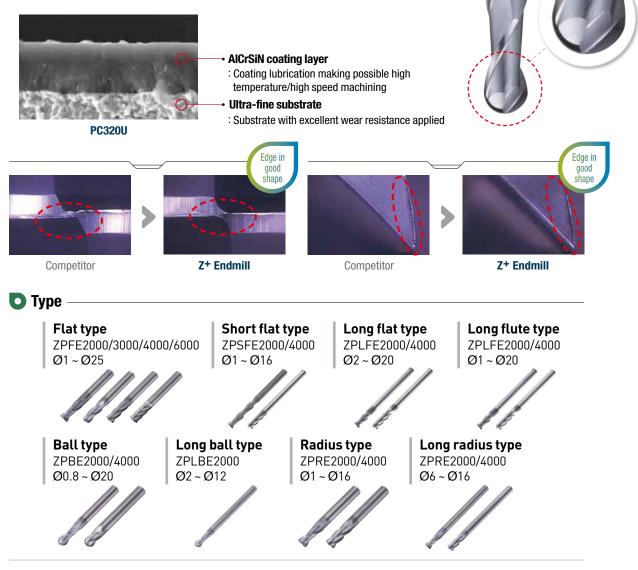
Z⁺ Endmill

Features

- Wide range of workpiece materials up to HRC47
- Wide application range from roughing to finishing
- Increased tool life thanks to a new substrate and advanced coating layers
- Prevented chipping and extended cutting time thanks to its optimized blade design

Features

- · Wide range of workpiece materials Carbon steel, alloy steel, cast iron, etc
- · Extended tool life Newly invented substrate and high-tech coating layers applied
- · Higher productivity Wide application range from roughing to finishing



R⁺ Endmill

- Cost-effective cutting-edge design for rough machining
- Specifically designed corners as irregular flute spacing and lead angle

GRADES

Features

TURNING

MILLING

ENDMILLS

DRILLS

C Features

- · Excellent machining efficiency Special design for medium to rough cutting
- Longer cutting life Extended tool cost due to newly applied grades
- · Higher cutting performance Blade design ideal for roughing

Lower cutting

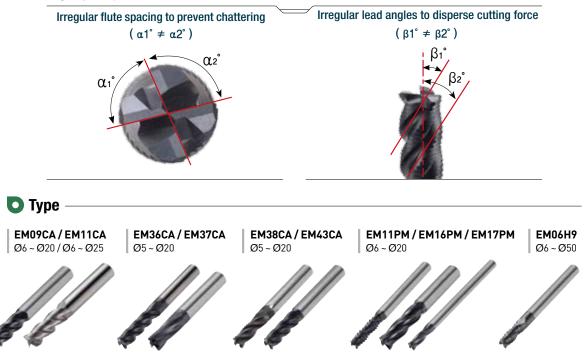
- · Ideal for medium to rough cutting
- Special edge design

Soft cutting

- · Serrated cutting edges
- 3 Combo R



High quality results



D Endmill

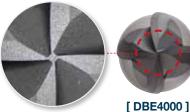
Features

- Tangential cutting-edge geometries for excellent surface finish _
- Excellent wear resistance due to high hardness and high purity diamond coating _
- Advanced surface finish and cutting performance due to sharp edges and tangential tool geometries



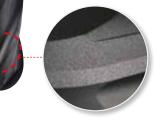
Center-matched ball shape (4-flutes)

- · Ball point shape for high feed machining
- · Improved rigidity and excellent surface finish



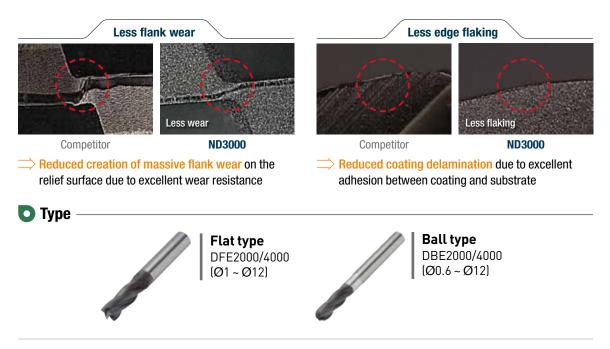
Tangential cutting-edge geometries

- · One-Pass grinding system
- · Prevents stepped cone on the machined surface
- · 2-flutes and 4-flutes tooling with a ball nose



ND3000 (Diamond Coated Grade)

- · High hardness diamond coating for machining graphite and ceramics
- · Good adhesion strength for high speed and heavy duty machining



Composite Router Endmill

Features

GRADES

TURNING

MILLING

- Router endmills optimized for machining composite materials (CFRP/GFRP)
- Excellent tool life thanks to nano-crystal diamond coating
- Blade design for reducing flaking and burrs
- Improved productivity through high efficiency machining

Features

- Diamond-coated grade ND2110 for machining composite materials
- High hardness diamond coating (over Hv 8,000)
- Nano-diamond coating with excellent resistance to friction and welding
- Improved resistance to flaking remove by applying the specialized grade for diamond coating

CCR (Router Endmill)

- Down cut design for low vibrations and cutting force
- Endmill for roughing, profiling, and grooving

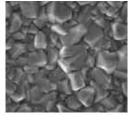


CCLR (Low Helix Router Endmill)

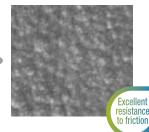
- Fewer burrs due to the low axial cutting force
- Endmill for finishing, profiling, and blind groove making



Existing diamond coating

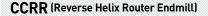


Nano-diamond coating



CCDR (Dual Helix Router Endmill)

- Dual helix design to inhibit flaking on upper and lower faces of workpieces
- Endmill for finishing, profiling, and grooving



- Reverse helix design to inhibit a drift in the workpiece's course
- Endmill for finishing, profiling, and through groove making



🖸 Туре



Flat type CCR2000 Ø4 ~ Ø12 **Flat type** CCLR4000 Ø4 ~ Ø12 Flat type CCRR6000/8000 Ø6 ~ Ø12



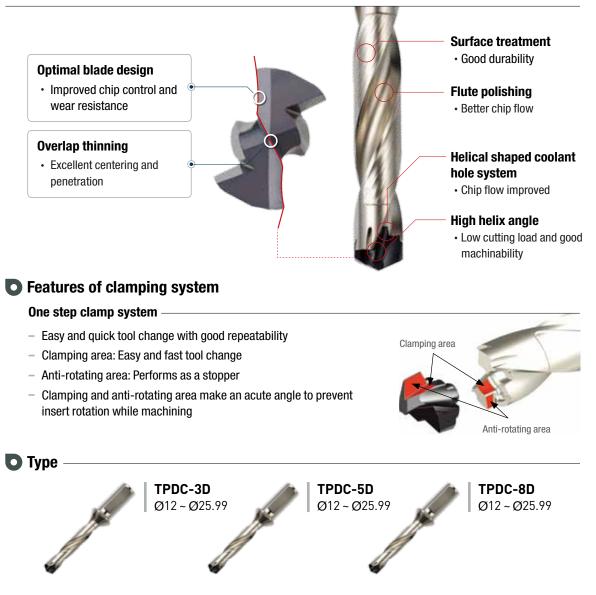
DRILLS

ENDMILLS



- One step clamp system → Increased stability
- Clamping system allowing to change inserts while the holder is attached on the machine
 → Shortened setting time
- Excellent chip control \rightarrow Possible to use for various types of workpieces
- Wide chip pocket area secured → Better lubrication + chip flow improved
- Ultra-fine substrate + Multi-layer coating applied → Excellent anti chipping & wear resistance

Features



MILLING

TURNING

ENDMILLS



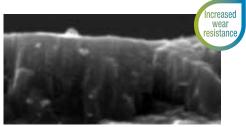
GRADES

- Highly efficient hole making for various workpieces including automobile components
- Excellent chip evacuation thanks to wider chip pockets.
- Strong wear resistance thanks to our new PC325U grade



New grade (PC325U)

- Lubricative coating layer improves welding resistance at middle to high speed.
- Increase wear resistance in machining carbon steel



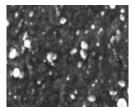
PC325U

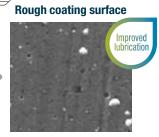
Application area

Surface of coating layer

- Increased welding resistance and lower cutting load
- Reduced frictional resistance at cutting edges and on the flute

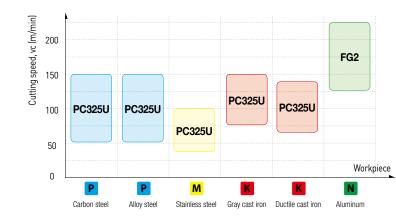


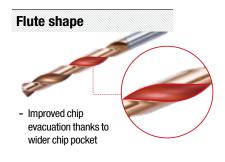




Competitor

PC325U









- Highly efficient hole making for various workpieces including automobile components
- Excellent chip evacuation thanks to wider chip pockets.
- Strong wear resistance thanks to our new PC325U grade

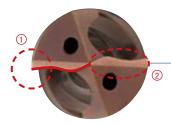
D Features

Flute design

Wider chip pockets improve chip evacuation

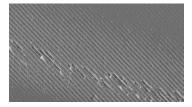
Optimized margin and back-tapered design

· Reduced friction resistance and cutting temperature

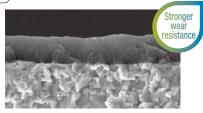


Cutting-edge design

- Notch-controlled blade design and specially treated cutting edges prevent chipping and breakage
-) Cutting edges designed for low cutting resistance
- (2) Tip relief angle and shape optimized for heat evacuation
- Reduced friction resistance and improved chip evacuation due to excellent surface finish
- Exceptional wear resistance when machining heat-resistant alloys at high temperatures







PC325T



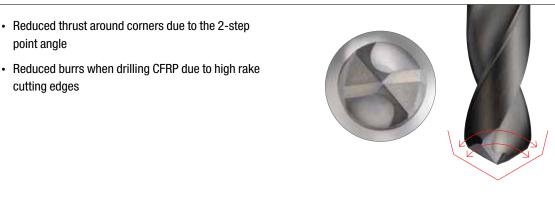


MSD Plus CFRP

Excellent wear resistance remove due to the new diamond-coated grade, ND2100 _

Features

Reduced burrs when machining CFRP due to high rake cutting edges _



GRADES

TURNING

MILLING

ENDMILLS

DRILLS

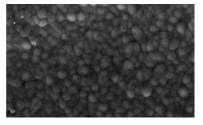
Features

point angle

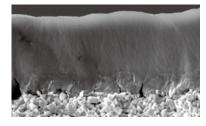
cutting edges

- · Diamond Coating specialized in CFRP machining · Diamond-coated substrate
- optimized for CFRP cutting

High hardness diamond coating maintains well-cut shapes

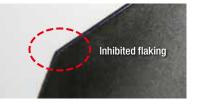


Diamond coating's strong grip to the substrate



 Inhibited burr creation by keeping cutting edges in good shape

Less wear and flaking on the rake surface





Fewer burrs on

D Type

MSDP-5C Ø3~Ø12.7



- High quality hole making capability with 180°-point angle
- Improved anti chipping and welding resistance by edge honing and chamfering which minimized the creation of burrs compared to general drills

D Features

Cutting edge design

- · Excellent straightness with its 180° -point angle when drilling on ramped surface
- · Stronger resistance to chipping through corner chamfering
- · Widened chip pockets by the use of 'R' shape on the thinning part



MLD Plus

Excellent stability due to new guide margin added

- Strong wear resistance due to our new PC315G grade

• Features

Cutting edge and flute shape

- · Straight cutting edge provides better rigidity
- Excellent chip evacuation due to wider chip pocket
 and improved flute surface roughness
- · Double margin secures machining stability

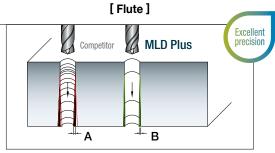
Chip pocket • Excellent evacuation • Double margin

Degree of machining precision

- · Improved machining precision
 - Bent holes reduced, Inside hole surface roughness improved
 - Hole size uniformity increased
- Improved point shape

Application area

- Precise location secured



Reduced bent holes compared to competitors (a > b)

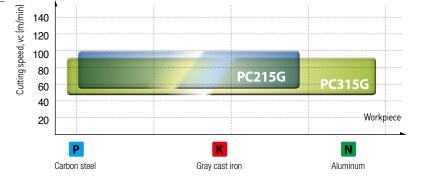
• PC215G

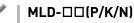
Excellent performance when machining cast iron and alloy steel at high speed

PC315G

D Type

Universal grade excellent when machining carbon steel, cast iron, etc. at middle to low cutting speed





GRADES

Features

TURNING

MILLING

ENDMILLS

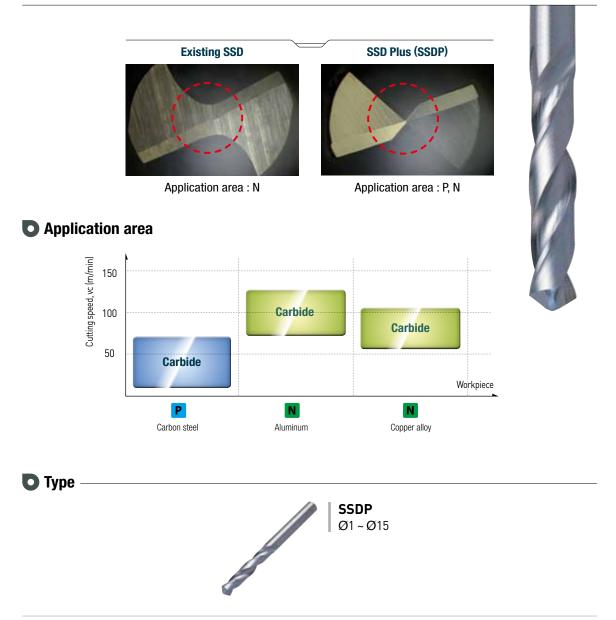
DRILLS





- Improved chip control due to the new flute design
- Higher quality machining achieved from improved surface finish and forming
- Increased productivity due to stable tool life
- A variety of workpiece materials available including mild steel and non-ferrous

D Features



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