

Highlights 2025-2026

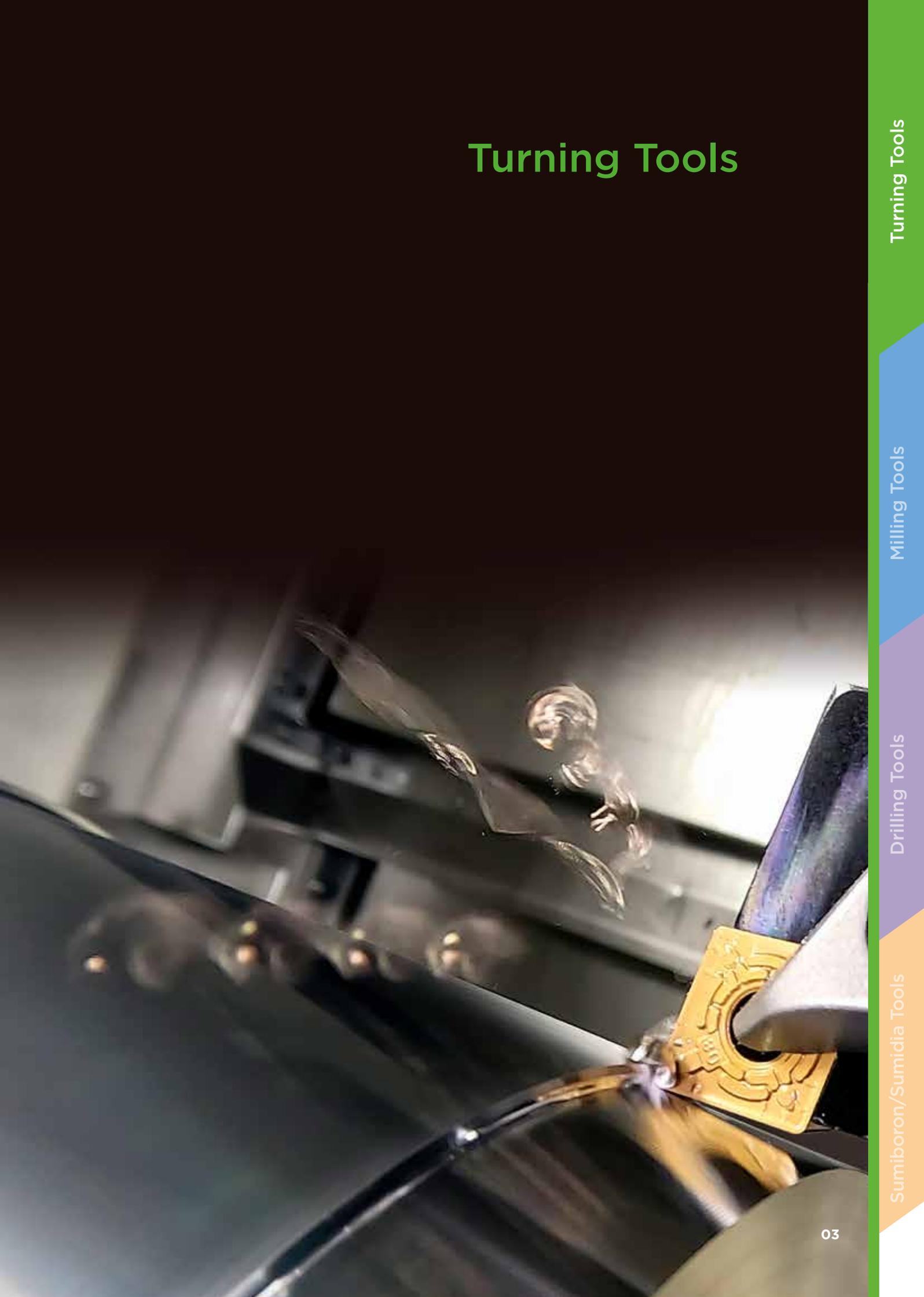
Products



HIGHLIGHTS 2025-2026

Turning Tools	03
AC8115P - Highspeed Machining Grade for Steel Turning	04
AC4125K - Coated Carbide Grade for Cast Iron interrupted Turning	05
AC6135M/AC6145M - Stainless Steel Turning Grade for „Absolutely Stable Cutting“	06
AC9115T/AC9125T - Turning Grades for Titanium Alloys	07
NRE Type Chipbreaker - Round Type Chipbreaker for Exotic Alloy & Steel Turning	08
APM - Modular Quick Change Holder APM Type	09
GNDXL- Grooving Holder for Deep Grooves	10
Milling Tools	11
Sumi Dual Mill DMSL/DMSW Series - High-Productivity High-Feed Cutter for Rough Milling	12
ACS1000/ACS2500/ACS3000 - Coated Grades for Stainless Steel and Exotic Alloys Milling	13
EPMP - High Efficiency Endmill Designed for Steel Machining	14
EPMS - Solid Carbide Endmill for Machining of Exotic Alloys	15
Drilling Tools	16
SumiDrill GDx - Indexable Insert Drill up to 7 x D	17
MultiDrill MDA series - Venturing into new Regions of Aluminum Alloy Drilling!	18
MDE - Innovative General-Purpose Drills	19
SDPX - Coated Carbide Drills for Steel & Cast Iron	20
SR-Reamer - Highly productive reaming with the SR Reamer!	21
SUMIBORON/SUMIDIA Tools	22
BNC2105/BNC2135 - Coated SUMIBORON for Hardened Steel Machining	23
DA1090/NPD10 - PCD Tools for Carbide and Hard Brittle Material Turning	24
BN7115/BN7125 - Sintered Alloy Machining / CBN Grade for Cast Iron	25
MEMO	26

Turning Tools



AC8115P

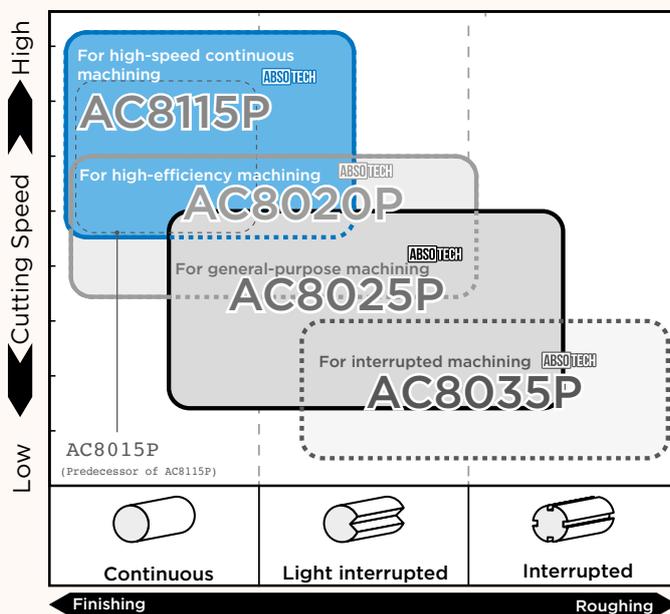
P M K N S H

Highspeed Machining Grade for Steel Turning



Thanks to a high-hardness layer, evolving fine crystal orientation control technology, and a new carbide substrate with excellent plastic deformation resistance, superb wear resistance is realised over a wide range of machining, including high-efficiency machining and dry machining.

Application Range



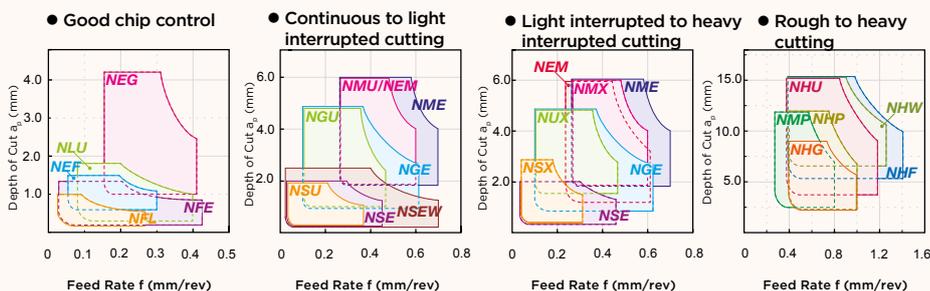
AC8115P New
CVD ABSOTECH

Amazing Wear Resistance

Crater wear resistance **1.5x** against conventional tools

Crater damage is suppressed and tool life extended through improved alumina layer coating strength and higher carbide substrate plastic deformation resistance.

Application Guide



Please find more product information on our website:



AC4125K



Coated Carbide Grade for Cast Iron interrupted Turning



Turning Tools

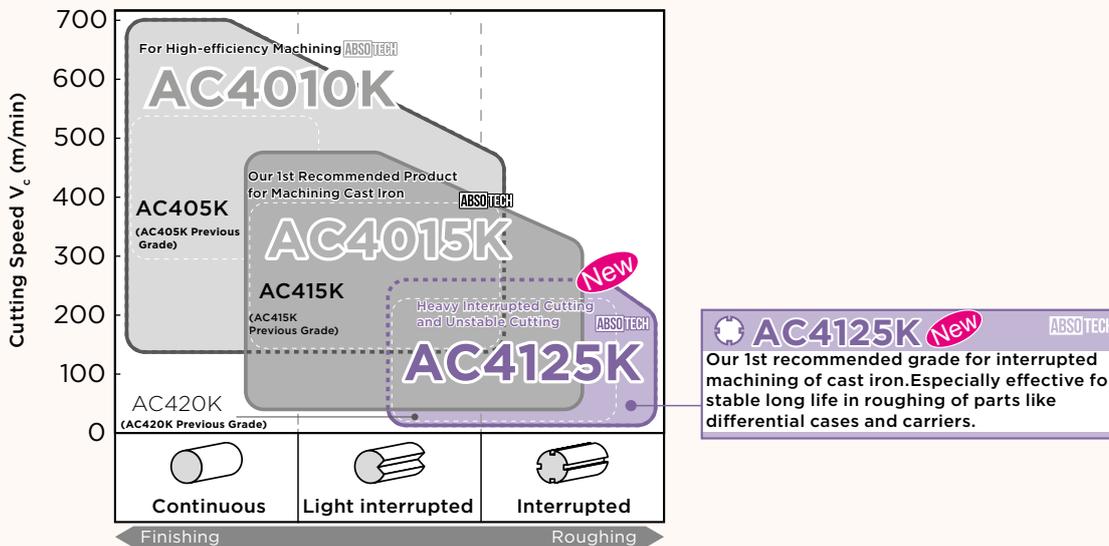
Milling Tools

Drilling Tools

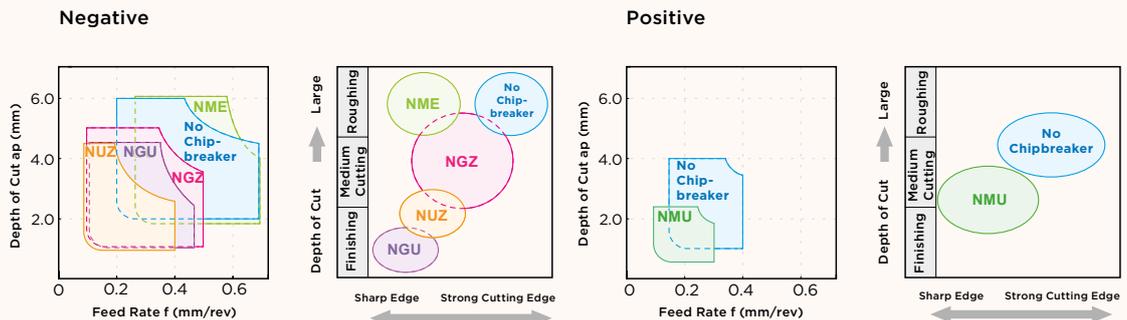
Sumiboron/Sumidia Tools

Excellent chipping resistance is demonstrated by the evolution of high adhesion technology, fine crystal orientation control technology and residual stress control technology. Very stable machining is realized in heavy interrupted cutting and unstable machining of cast iron.

Application Range



Chipbreaker



Please find more product information on our website:



AC6135M/AC6145M

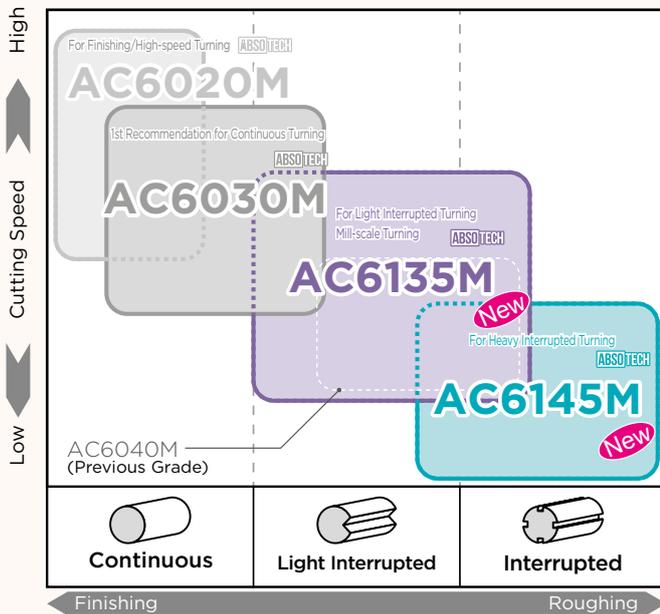


Stainless Steel Turning Grade for „Absolutely Stable Cutting“.



The use of our proprietary PVD coating technology (Absotech™) balances high wear resistance and fracture resistance. Excellent stability and long tool life realized in light interrupted machining of stainless steel and mill-scale work (AC6135M) and heavy interrupted machining (AC6145M).

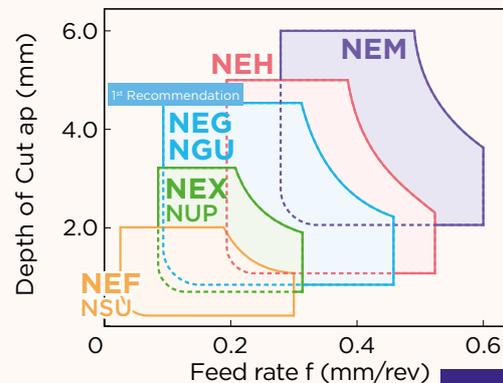
■ Application Range



AC6135M New **PVD ABSOTECH**
Balances excellent wear resistance and fracture resistance in **light Interrupted turning** and casted or forged skin turning through the use of new PVD coating.

AC6145M New **PVD ABSOTECH**
The combination of a PVD coating and a high-toughness carbide substrate realises absolute stability in **heavy interrupted turning**.

■ Chipbreaker Application Range



Please find more product information on our website:



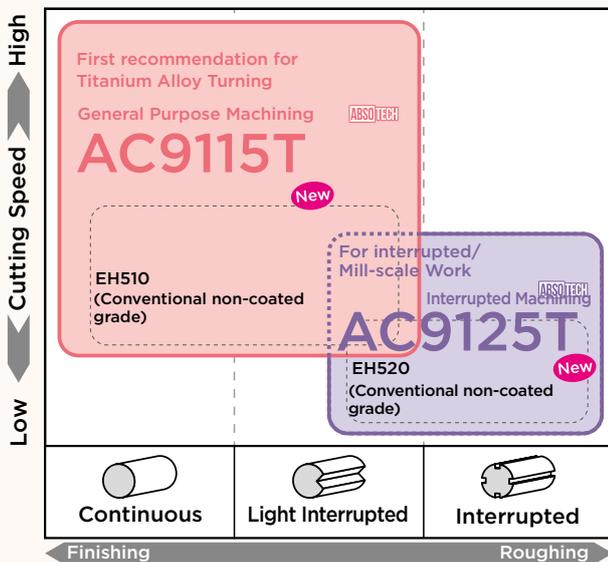
AC9115T/AC9125T

Turning Grades for Titanium Alloys



First recommended grade for titanium alloy machining. Through a revolutionary PVD coating specialized for titanium alloy machining, excellent machined surface quality is realized along with overwhelming long tool life and high efficiency in titanium alloy turning.

Application Range



AC9115T (New) PVD ABSOTECH

Absolute Reliability

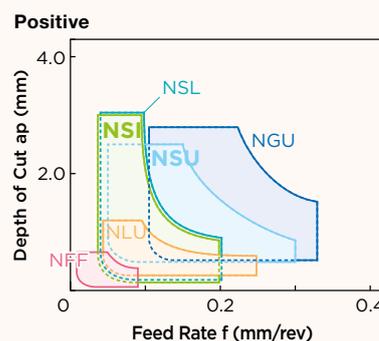
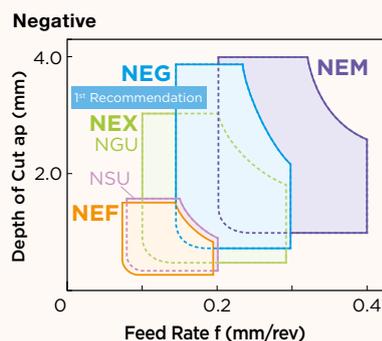
Wear Resistance **3x** against conventional tools

AC9125T (New) PVD ABSOTECH

Exceptional Stability

Fracture Resistance **3x** against conventional tools

Chipbreaker Application Guide



Please find more product information on our website:



NRE Type Chipbreaker



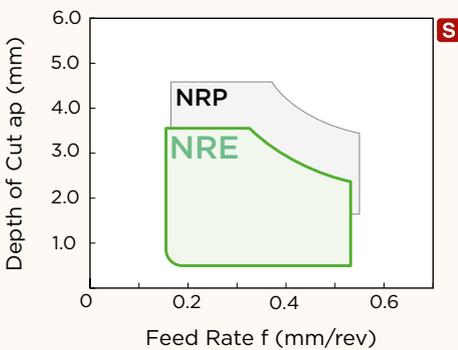
Round Type Chipbreaker for Exotic Alloy & Steel Turning



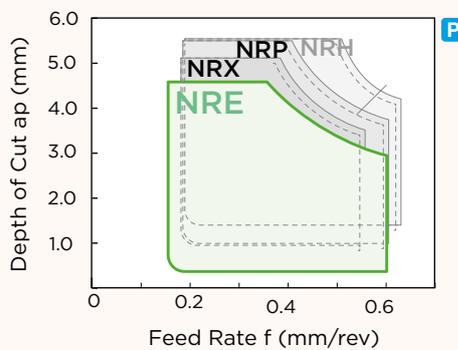
Eliminates chip problems when turning exotic alloys and steel, preventing constant stoppages and ensuring stable machining. The wide and steep chipbreaker shape enables excellent chip evacuation when machining exotic alloys and steel at depths of cut of 4.0mm or below. In the machining of exotic alloys or in low depth of cut machining of steel, which are prone to elongated chips.

Application Range

Exotic Alloy



Steel



Round Chipbreaker Selection Guide (Positive Inserts)

<div style="text-align: center;">S</div> Exotic Alloy Machining	<div style="text-align: center;">Chip Control Improved Surface Roughness</div> <div style="text-align: center;">NRE_{type} Standard chipbreaker RCMT1204M0N type</div>	<div style="text-align: center;">Strong Edge Profiling/Interrupted Machining at Large Depths of cut</div> <div style="text-align: center;">NRP_{type} Standard chipbreaker RCMX1606M0N type</div>	
	<div style="text-align: center;">Chip Control Improved Surface Roughness</div> <div style="text-align: center;">NRE_{type} Standard chipbreaker RCMT1204M0N type</div>	<div style="text-align: center;">Balanced Chip control and Strength Emphasized</div> <div style="text-align: center;">NRX_{type} 3D chipbreaker RCMT1606M0N type</div>	<div style="text-align: center;">General-purpose Steel Machining</div> <div style="text-align: center;">NRH_{type} 3D chipbreaker RCMT1606M0N type</div>
<div style="text-align: center;">P</div> Steel Machining	<div style="text-align: center;">Chip Control Improved Surface Roughness</div> <div style="text-align: center;">NRE_{type} Standard chipbreaker RCMT1204M0N type</div>	<div style="text-align: center;">Balanced Chip control and Strength Emphasized</div> <div style="text-align: center;">NRX_{type} 3D chipbreaker RCMT1606M0N type</div>	<div style="text-align: center;">Strong Edge Roughing to Heavy Cutting</div> <div style="text-align: center;">NRP_{type} Standard chipbreaker RCMX1606M0N type</div>

Large width and large chipbreaker angle control and split chips

Improved cutting edge sharpness reduces machining noise



Reduces chip trouble and realises stable machining

Low cutting force gives excellent wear resistance

APM

Modular Quick Change Holder APM Type

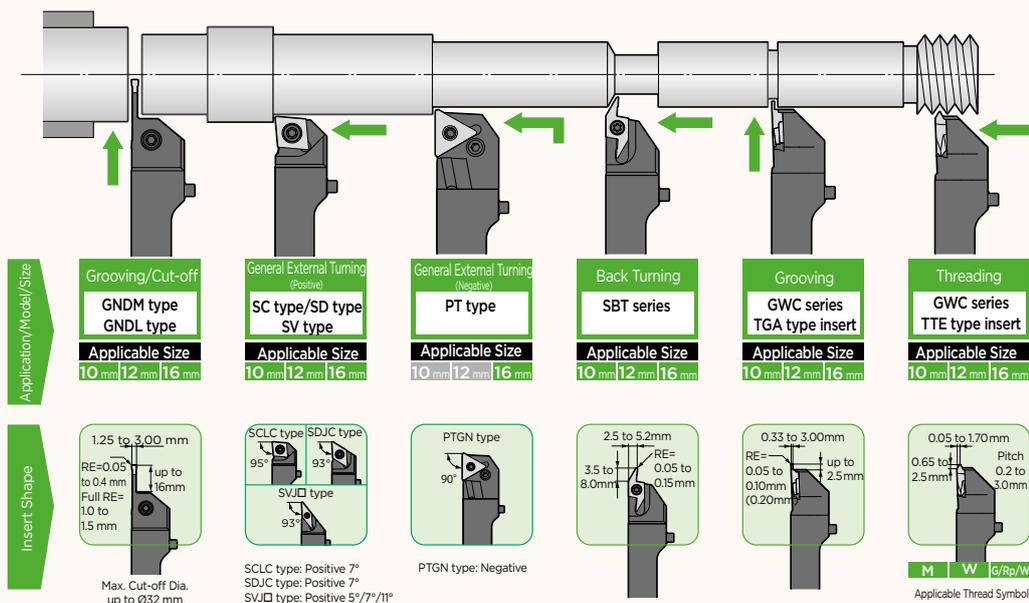


The interchangeability of the head simplifies the replacement of the cutting insert and reduces machine downtime while increasing productivity. The high-precision interface enables a repeat accuracy of 5 μm .

■ Features

A wide range of heads with different insert geometries that fit the 10, 12, and 16 mm shank sizes of holders for a wide range of CNC lathes, automatic lathes and small lathes. Suitable for turning, back turning, parting off, and thread turning. Internal coolant supply design, supporting coolant supply without hose.

■ Application Guide



Please find more product information on our website:



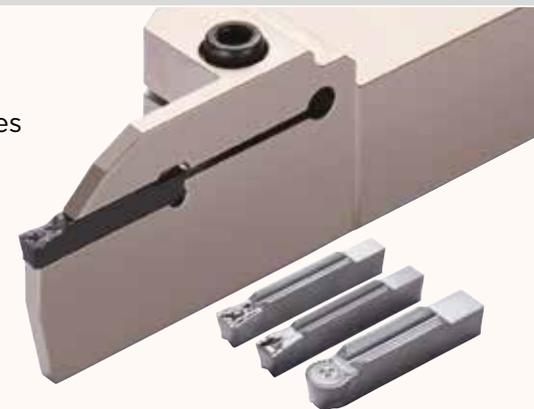
Grooving Holder for Deep Grooves



For grooving and cut-off. An array of chipbreakers improves the efficiency in chip control in various applications and prevents unexpected damage caused by chip blockade. Monoblock holders body construction made of high-quality steel, reduce vibration by 30 % during machining as compared to conventional types. Grooving insert width tolerance of $\pm 0,03$ mm over the entire range.

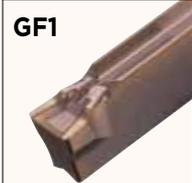
■ New Holders for Deep Grooves GNDXL type

- SEC-Grooving Tools GND series now feature holders for deep grooves with groove depth up to 32mm
- Integrated high-rigidity body and insert realise superb vibration resistance
- Shank width lineup includes 20mm square and 25mm square
- Dedicated 1-cornered inserts for deep grooving with widths of cut from 3.0 to 6.0mm are stocked (2.0 mm is a made-to-order item)
- Chipbreaker lineup includes ML1 type / GF1 type / RN1 type



■ Inserts - Chipbreaker Series

Achieving stability and longer tool life. A variety of chipbreakers ensures outstanding chip control performance in a wide range of applications.

Grooving / Turning	Grooving/ Cut-Off	Necking
Low Feed Type	Low Cutting Force Type	General Type
ML1 	GF1 	RN1 

Please find more product information on our website:





Milling Tools

Turning Tools

Milling Tools

Drilling Tools

Sumiboron/Sumidia Tools

Sumi Dual Mill DMSL/DMSW Series



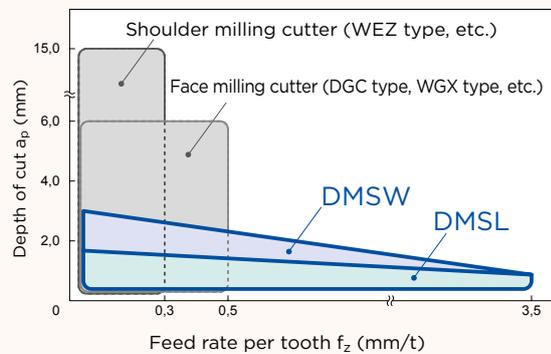
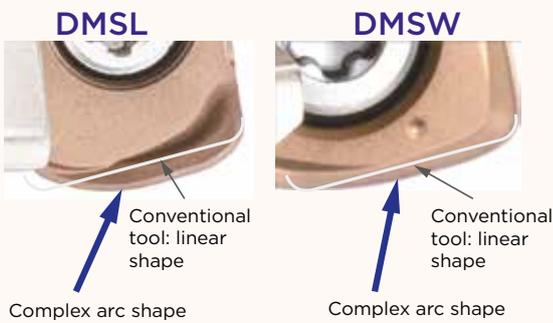
High-Productivity High-Feed Cutter for Rough Milling



High productivity thanks to high chip volume rate as well as high economic efficiency, due to the stable double sided insert with 4 (LNMU) or 6 (WNMU) cutting edges. The arc-shaped cutting edge reduces the cutting force to a minimum. High-efficiency machining at maximum feed rate per tooth of 3,5 mm/t is possible. Small approach angle (15°) directs most of cutting force in the axial direction and reduces the radial forces.

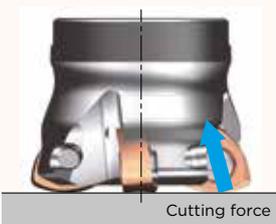
■ Features

- A small chip cross-section due to a small approach angle enables high feed rates per tooth. Feed rate 3,5mm/t is possible.



- Small approach angle (15°) directs most of cutting force in the axial direction and reduces the radial forces. High efficiency can be achieved by suppressing chatter in even long tool overhang machining.

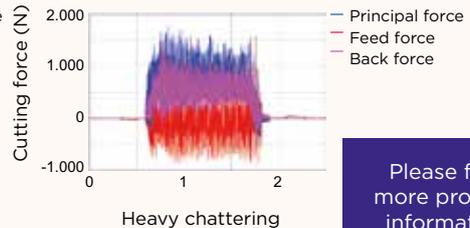
DMSL / DMSW



DMSL



Competitor's product (high-feed tool)



Please find more product information on our website:





Long, stable tool life and high efficiency in a wide range of machining applications for stainless steel and exotic alloys. ACS1000 is designed for high-speed machining. ACS2500 is the first choice for general machining of stainless and heat-resistant materials as well as titanium alloys. ACS3000 is recommended for roughing due to its tough substrate.

■ Features of PVD Coating

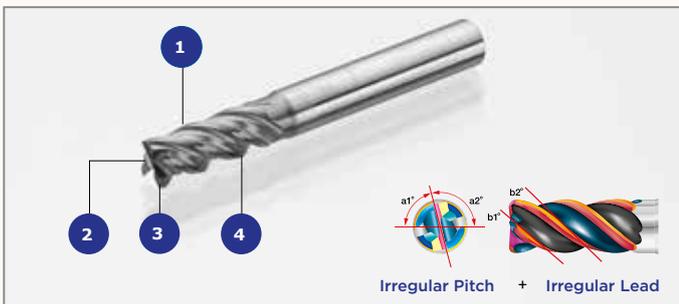


High Efficiency Endmill Designed for Steel Machining



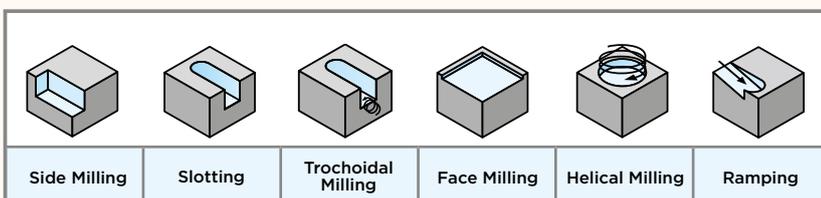
Exceptional vibration control thanks to its irregular pitch and lead design, ensuring smoother operation and higher precision. Superior wear resistance and long tool life due to a newly developed carbide substrate and advanced Power-Mill coating.

■ Features



- 1 The optimized flute geometry ensures reliable chip removal.
- 2 Anti-vibration design - the irregular pitch and lead of the mill prevent vibrations.
- 3 Stable cutting corner increases process reliability and productivity. Enhanced cutting edge stability due to double relief angle.
- 4 The Power-Mill coating and a newly developed carbide substrate ensure high wear protection with long tool life.

■ Suitable Applications



Please find more product information on our website:



Solid Carbide Endmill for Machining of Exotic Alloys



The EPMS is designed for high-efficiency machining of exotic alloys, especially in aerospace and high-performance industrial applications. Anti-vibration design significantly improves surface quality and dimensional accuracy, especially in challenging setups (e.g., thin walls or poor clamping). Optimized flute geometry ensures smooth chip evacuation and high rigidity for stable, efficient milling.

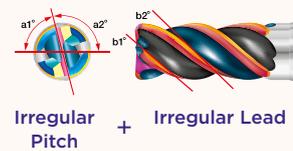
■ Features

- Higher efficiency and tool life due to new technology of latest developed carbide substrate and coating combined with the new optimized tool design
- Available with 4/5 and 6 flutes, different diameters and edge radii
- Excellent performance in machining of exotic alloys like Ti-alloys, super alloys and heat resistant steels
- Suitable for Titanium structure parts for airplanes
- Anti-vibration design for reliable and efficient machining in a wide application range

AC4015K

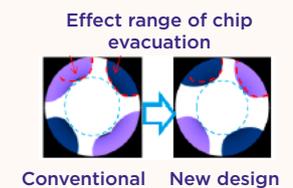
Anti-Vibration design

Reduce the vibration dramatically, especially for poor clamping and thin wall work geometry, increase the parts accuracy and parts surface quality for customers.

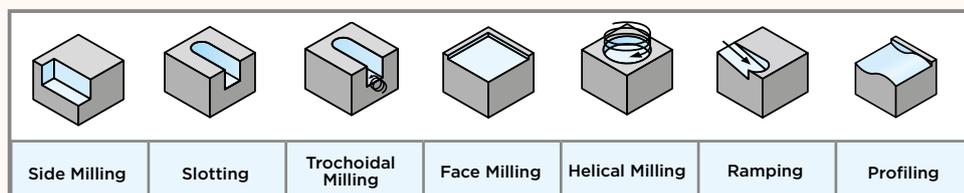


Optimized flute geometry

Smooth chip evacuation and high rigidity are realized to ensure stable and efficient milling processes.



■ Applications



Please find more product information on our website:



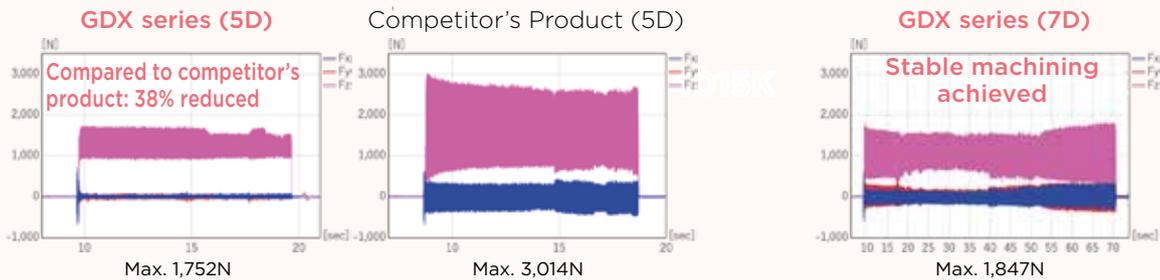


Drilling Tools



The SumiDrill GDX series stands out for its exceptional stability and efficiency in deep hole drilling, thanks to its high-rigidity holder and optimized insert design. It delivers up to three times the machining efficiency and double the tool life compared to competitor products. With superior chip evacuation and reduced vibration, it ensures high-quality surface finishes and reliable performance across a wide range of materials.

■ Cutting Force



■ Product Range

Insert Size	GDXT05	GDXT06	GDXT07
Drilling Depth	Compatible Holders (Dia. mm)		
2D	ø15.5 to 18.0	ø18.5 to 22.0	ø22.5 to 27.0
3D	ø15.5 to 18.0	ø18.5 to 22.0	ø22.5 to 27.0
4D	ø15.5 to 18.0	ø18.5 to 22.0	ø22.5 to 27.0
5D	ø15.5 to 18.0	ø18.5 to 22.0	ø22.5 to 27.0
6D	ø15.5 to 18.0	ø18.5 to 22.0	ø22.5 to 27.0
7D	ø15.5 to 18.0	ø18.5 to 22.0	ø22.5 to 27.0

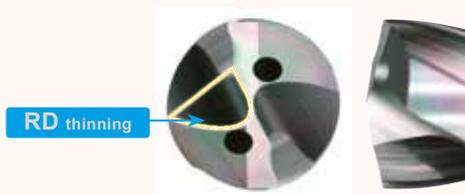
Venturing into new Regions of Aluminum Alloy Drilling!



The MULTIDRILL MDA Series with AURORA X-Coat is designed for high-precision and high-efficiency drilling in non-ferrous metals like aluminum alloys. Its advanced coating significantly reduces adhesion and cutting resistance, ensuring longer tool life and stable hole positioning—even under demanding conditions.

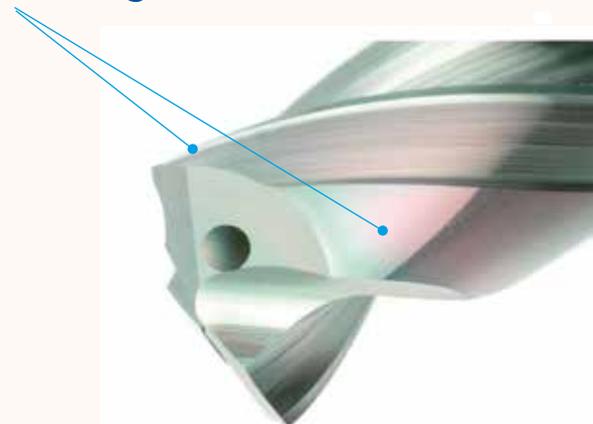
■ Features

RD Thinning

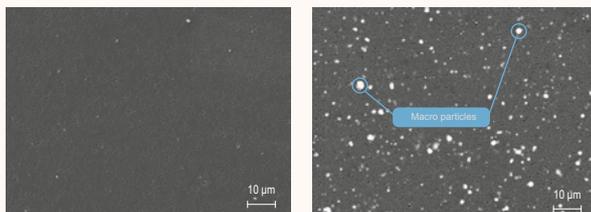


Outstanding centering with special RD thinning

Wide Double Margin (Diameter: 3,1 mm up)



■ Coating Surface Properties



AURORA X-Coat

Conventional DLC Coat

New technology significantly improves smoothness

Hole precision is improved with wide double margin providing excellent guide performance!

■ Excellent smoothness significantly reduces adhesion



Work Material: AISi11Cu3 Machine: Vertical Machining Centre BT30 Tool: MDA0600S06H05 (Ø 6 mm x 5D)
Cutting Data: $v_c = 180$ m/min, $f = 0,2$ mm/rev, internal coolant supply (water soluble)

Please find more product information on our website:



Innovative General-Purpose Drills



The MULTIDRILL MDE Series is a versatile, high-performance drill line designed for stable, long tool life across a wide range of materials—from stainless steel to die steel and cast iron. Its advanced ACT100 grade with NX coating ensures excellent wear resistance, reduced chipping, and superior hole precision.

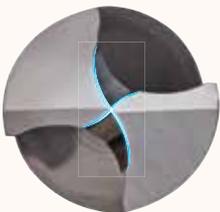
■ Features

General-purpose drill suitable for a wide range of work materials and cutting conditions

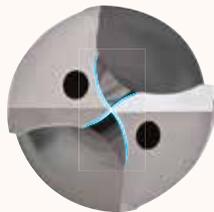
RX Thinning + Arc Shaped Cutting Lip

Low resistance chip breaking
RX thinning reduces thrust

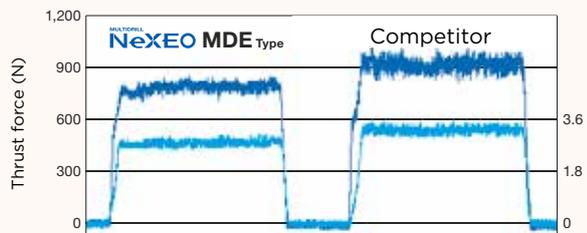
Also ideal for small machining centres and small lathes.



External Coolant Supply



Internal Coolant Supply



Work Material: C50, Diameter: \varnothing 8 mm, Hole Depth: 5D, Cutting Data: $v_c = 80$ m/min, $f = 0,15$ mm/rev, H = 38 mm (through), internal coolant supply (water soluble)

■ Stable and Long Tool Life Across a Wide Range of Drilling Applications

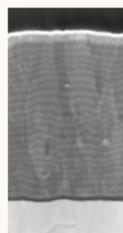
Resistant to Edge Chipping

General-purpose grade Fine-grained Carbide Substrate
Featuring both wear and fracture resistance!

ACT100

NX Coating

Absotech™ technology for high quality, high hardness, high strength, excellent wear resistance and thermal resistance.



TiAlCrSi-based Super Multi-Layered Coated Carbide
Hardness HV: 46 GPa
Starting Temperature For Oxidisation: 1,100°C

Highly Adhesive Layer



High-quality edge provides stable tool life

Please find more product information on our website:

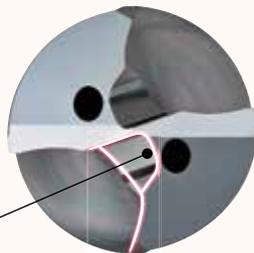


Coated Carbide Drills for Steel & Cast Iron



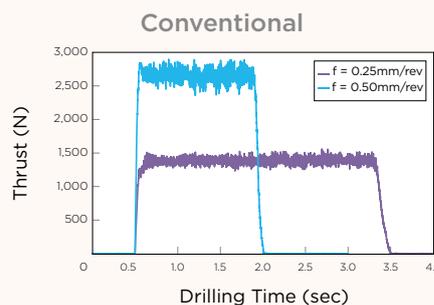
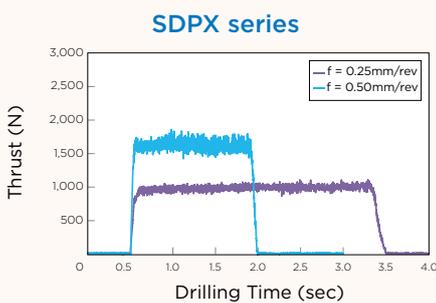
The SumiDrill Power SDPX series is characterized by its exceptionally high drilling performance in steel and cast iron. Thanks to its RP sharpening design and HF multi-layer coating, which reduce cutting resistance and extend service life. It offers up to 2.5 times longer service life and significantly reduces energy consumption and cycle time, making it ideal for cost-effective mass production.

■ Features



- Wide chip pocket enables smooth chip evacuation and reduced cutting, resistance ensuring stable drilling even in high-efficiency conditions

RP THINNING

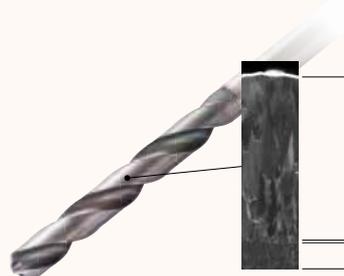


Work Material: C50 Tool: SDPX 0800S08H05 Cutting Conditions: $V_c=80\text{m/min}$ $H=38\text{mm}$ (Through)
Wet (Internal Coolant Supply, Emulsion)

New Grade PCH70

New HF Coat

- TiAlCrSi-based super multi-layered coating realises excellent wear resistance and thermal resistance
- Tough TiAlB-based coating is employed on the carbide substrate to improve coating strength and fracture resistance



Super multi-layered TiAlCrSi

Hardness HV: 46GPa
Starting Temperature for Oxidisation: 1,100°C

TiAlB-based toughness layer

Balances wear and fracture resistance

Please find more product information on our website:



SR Reamer



Highly productive reaming with the SR Reamer!



The SR Reamer Series sets new standards in high-performance reaming with its modular quick-change system, covering diameters from 7.600 mm to 200.200 mm. It offers exceptional flexibility, fast insert changes without adjustment, and outstanding precision—resulting in higher productivity, reduced machine downtime, and lower cost per hole.

SR Reaming System

SR Small Ø 7,600 - 13,100 mm

SR Medium Ø 11,900 - 140,600 mm

SR Large Ø 139,801 - 200,200 mm



■ Features

- Modular quick-change reaming system with diameters ranging from 7.600 mm to 200.200 mm
- Easy handling for fast and straightforward insert changes
- Quick cutting edge replacement within the micron range without additional adjustment effort
- Largest standard offering with custom diameters at no extra cost
- Combination of cutting materials, inserts, and shank systems ensures maximum flexibility
- Low cost per hole due to increased productivity and minimal machine downtime

Please find more product information on our website:



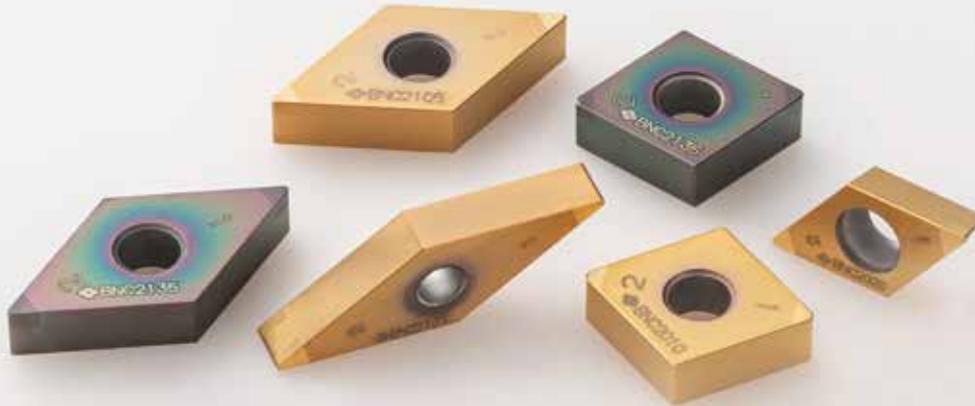
Sumiboron/Sumidia Tools



BNC2105/BNC2135

P M K N S H

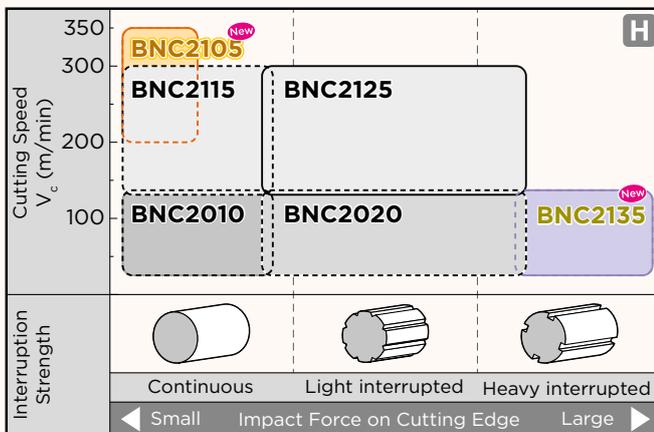
Coated SUMIBORON for Hardened Steel Machining



The coated SUMIBORON series stands out for its exceptional wear resistance, precision, and cutting stability, even under demanding conditions like high-speed or interrupted machining. Thanks to advanced coating technology and robust CBN substrates, it delivers up to twice the tool life of competitor products—while maintaining excellent machining.

Application Range

Induction Hardened Steel (C45/C55), Carburised Steel



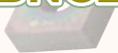
BNC2105



Highly wear-resistant grade for high-speed machining

for a stable and long tool life under highspeed machining conditions due to new coating technologies.

BNC2135



Achieves long and stable tool life in heavy interrupted cutting of hardened steel

Utilising a highly fracture-resistant coating and a high-strength substrate to achieve long and stable tool life in interrupted machining.

Please find more product information on our website:



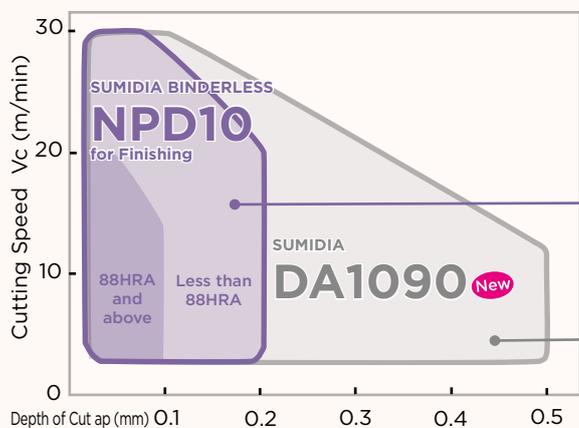
DA1090/NPD10

PCD Tools for Carbide and Hard Brittle Material Turning



SUMIDIA DA1090 and NPD10 offer excellent precision and exceptional wear resistance when machining cemented carbide. NPD10 delivers up to 6× longer tool life and superior surface quality, while DA1090 excels in high-load roughing with excellent fracture resistance—making both ideal for demanding, cost-efficient machining.

■ Application Range (Cemented Carbide)



○ NPD10

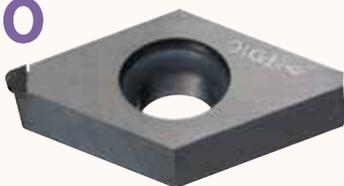
Displays outstanding wear resistance under cemented carbide finishing conditions, suppressing dimensional variations.

○ DA1090 **New**

Realises stable tool life in machining of cemented carbide with sintered surface

SUMIDIA BINDERLESS

NPD10



Cutting edge is 100% diamond material made from high-hardness nano-crystalline diamond. Achieves longer tool life and higher machining of cemented carbide and other hard brittle materials.

SUMIDIA

DA1090



A polychristalline diamond material with the highest diamond content, made by sintering coarse diamond particles at high density. High density and enhanced particle binding strength exhibit excellent wear and fracture resistance.

BN7115/BN7125



Sintered Alloy Machining / CBN Grade for Cast Iron

Turning Tools

Milling Tools

Drilling Tools

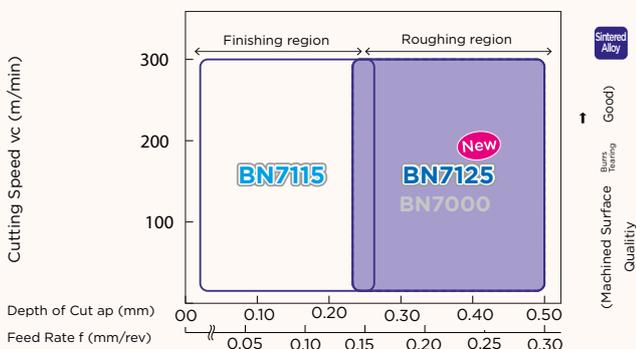
Sumiboron/Sumidia Tools



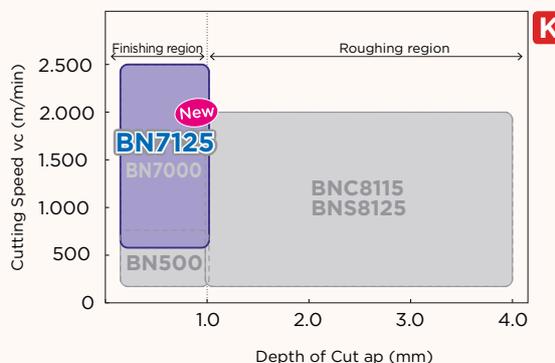
BN7115 and BN7125 offer exceptional stability and tool life in high-speed machining of cast iron and sintered alloys. BN7115 delivers sharp edge performance and superior surface quality, achieving up to twice the tool life of conventional CBN tools, while BN7125 is characterized by excellent fracture resistance and effective suppression of thermal damage, making it particularly suitable for interrupted cuts and high loads.

Application Range

Sintered Alloy



Cast Iron



BN7115

Grade for Finishing Sintered Alloy



- Achieves both excellent cutting edge sharpness and fracture resistance
- Stable edge sharpness suppresses burrs and tearing

BN7125

General-purpose Grade for Cast Iron/ Sintered Alloy Machining



- High-efficiency machining of sintered alloy with the standard cutting edge + 3 variations
- Excellent thermal crack resistance in high-speed finishing of cast iron
- Also supports the machining of exotic alloys such as rolls, HSS, heat-resistant alloys, etc.

Please find more product information on our website:



MEMO

A large grid of dotted lines for writing a memo, consisting of 20 columns and 30 rows of small squares.

MEMO

A large grid of dotted lines for writing a memo, consisting of 20 columns and 30 rows.



SUMITOMO ELECTRIC Hartmetall GmbH
Konrad-Zuse-Straße 9 | 47877 Willich | Germany
T +49 2154 4992-0
info@sumitomotool.com
www.sumitomotool.com



SUMITOMO ELECTRIC Hardmetal Ltd.
2 Devon Way | Longbridge Technology Park
Birmingham B31 2 TS | UK
T +44 121 6613650
salesUK@sumitomotool.com



Scan and follow us!

Distributed by: