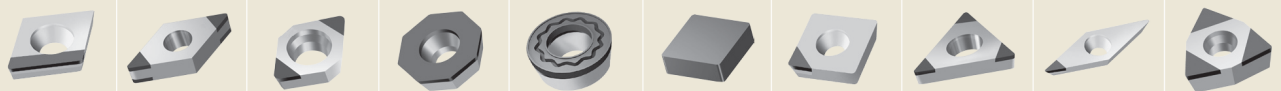
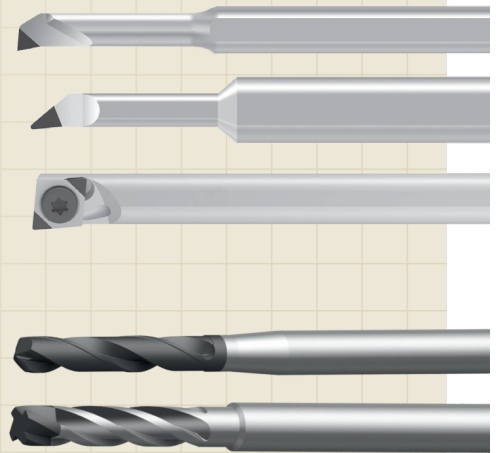
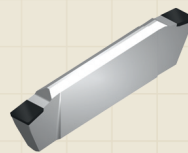
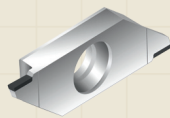
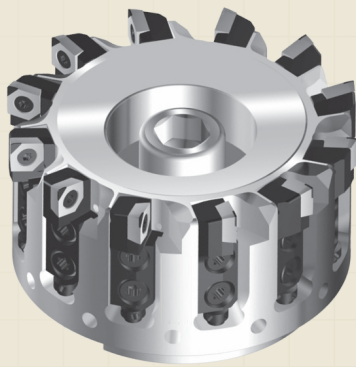
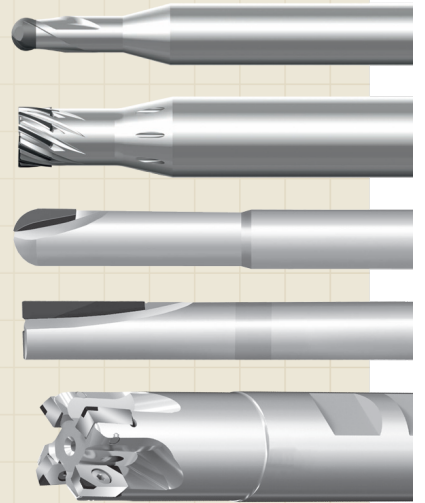




### Product Overview PCD / CVD-D / ULT-D / CBN Tools

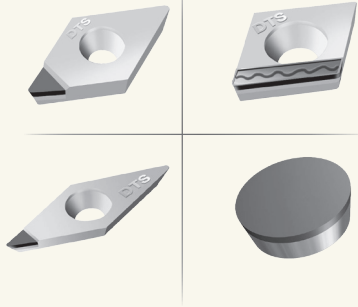


PASSION FOR DIAMOND



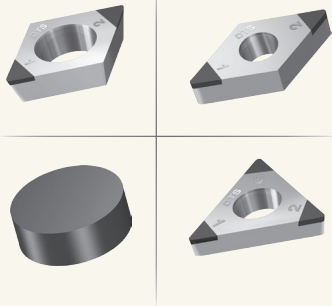
## Lasered Indexable Inserts

PCD / CVD-D / UltraDiamant



- Neutral and Positive Rake geometries
- 2 Styles Laser Chipbreakers
- Specials are available upon request

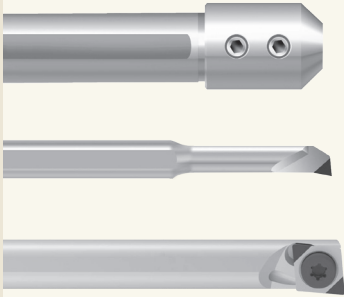
## CBN Tipped Inserts



- 12 CBN grades from Stock
- Smooth to Heavy Interrupted cuts
- 3D Laser Chipbreakers are available upon request

## Brazed and Inserted Boring Bars

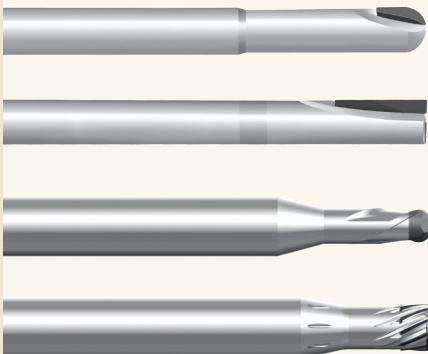
PCD / CVD/D / CBN tips



- Brazed boring bars for 1mm - 9mm Minimum bores
- Inserted Tools with range of 3.5mm - 11mm Minimum bores
- Standard adapters and hydraulic expansion holders from stock
- Specials available on Request

## End Mills

PCD / CVD-D / UltraDiamant / CBN

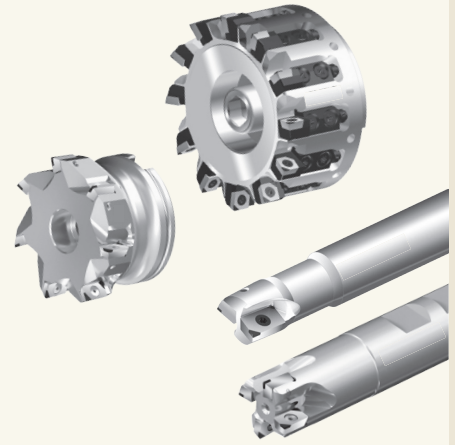


- Diamond end mills from  $\varnothing$  0.20-20.00 mm
- Corner, ball, multi-tooth and CBN solid milling cutters available in a large selection
- Optimized, stable design for the machining of carbides, ceramics and brittle-hard materials
- Straight and helical cutting edge
- Special tools on request

## Milling systems with milling inserts

PCD / CVD-D / CBN

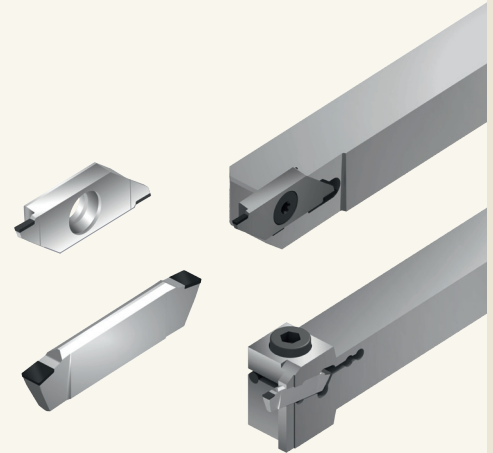
- End milling cutters from  $\varnothing$  10-25 mm
- Inserted copy cutters from  $\varnothing$  15-80 mm
- Shell Mills from  $\varnothing$  32-100 mm
- Adjustable Cartridge mills from  $\varnothing$  50-400 mm, in steel and aluminium bodies. Inch Aluminum body cutters 2" - 3"
- Multi-edged inserts, 2 cutting lengths and superfinisher edge
- For standard and high-speed machining



## Grooving System

PCD / CVD-D / UltraDiamant / CBN

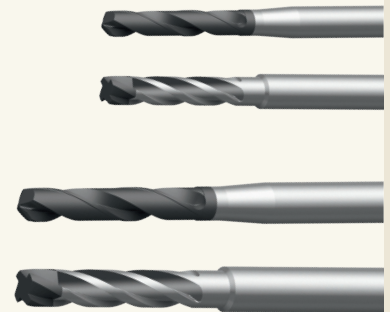
- Stable grooving system from width 1.00-6.00 mm
- Suitable for grooving turning and part-off
- Clamping and screw styles
- Form grooving tools possible
- Special tools and lasered 3D chipbreakers on request



## CBN Coated Drills

### Solid CBN Reamers

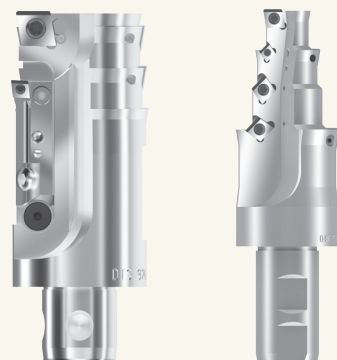
- Drill for hard drilling up to 68HRC, from  $\varnothing$  2.00-12.00 mm, in increments of  $\varnothing$  0.10 mm
- CBN reamers for up to 72HRC, from  $\varnothing$  1.50-6.03 mm, in gradation of  $\varnothing$  0.01 mm and 0.10 mm



## Special Tools

PCD / CVD-D / UltraDiamant / CBN

- Combination Tools
- Inserted tools can use 3D laser chipbreaker inserts
- Brazed style tools with diamond or CBN tips are available upon request
- Design to your part prints for the best performance






## Areas of application of our cutting materials

PCD

### PCD




Is ideally suited for the machining of:  
Aluminium <10% Si | Graphite | Copper | Copper Alloy |  
Magnesium | Brass | PEEK | Tungsten alloy

-  Smooth cut
-  Slightly interrupted cut
-  Severely interrupted cut

CVD-D

### CVD-D




Is ideally suited for the machining of:  
Acrylic (PMMA) | Aluminium >10% Si | Glass, Fiberglass | Carbide |  
Ceramics | Synthetics | Copper, Copper Alloys | Magnesium | Silver,  
Gold, Platinum | Titanium | Composites (CFK, GFK) | Zirconium

-  Smooth cut
-  Slightly interrupted cut
-  Severely interrupted cut

ULT-D

### ULT-D




Is ideally suited for the machining of:  
Acrylic (PMMA) | Glass, Fiberglass | Carbide | Ceramics  
| Zirconium

-  Smooth cut
-  Slightly interrupted cut
-  Severely interrupted cut

H

### CBN-H




For the machining of:  
Steels up to 72 Rc  
Hardened Sintered Steels

-  Smooth cut
-  Slightly interrupted cut
-  Severely interrupted cut

P

### CBN-P




For the machining of:  
All Sintered materials

-  Smooth cut
-  Slightly interrupted cut
-  Severely interrupted cut

K

### CBN-K




For high-speed machining of:  
Grey Cast Iron (GCI)  
Ductile Cast Iron (DCI)

-  Smooth cut
-  Slightly interrupted cut
-  Severely interrupted cut

S

### CBN-S




For the machining of:  
Inconel  
Ni-, Co-, Fe- and Cr-Alloys

-  Smooth cut
-  Slightly interrupted cut
-  Severely interrupted cut

X

### CBN-X

For the machining of:  
Powdered metals, Hardened special alloys  
ie: ASP, CPM, Hardened tool steels up to  
72Rc

-  Smooth cut
-  Slightly interrupted cut
-  Severely interrupted cut