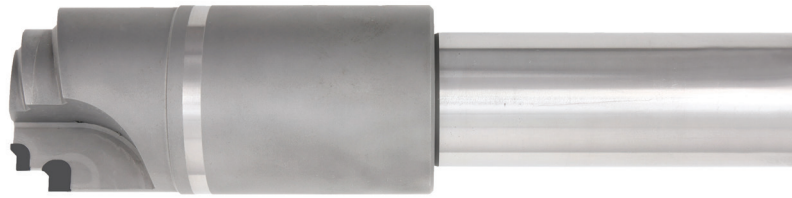


A LEADER IN THE DESIGN  
AND MANUFACTURING OF  
**QUALITY PCD/PCBN  
CUTTING TOOLS**



**MASTERTECH**  
DIAMOND PRODUCTS COMPANY

## PCD INSERTS

With Mastertech Diamond PCD (Polycrystalline Diamond) inserts you can machine any non-ferrous material with the required tolerance and surface finish. This includes all aluminum grades, titanium alloys, tungsten carbides, ceramics, graphites and reinforced plastics.

### BENEFITS

- Higher metal removal rates; faster cycle times; more parts per shift
- Reduced scrap; improved quality; tighter dimensional control; excellent surface finishes
- Optimum machine tool efficiency; increased productivity; reduced need for new equipment

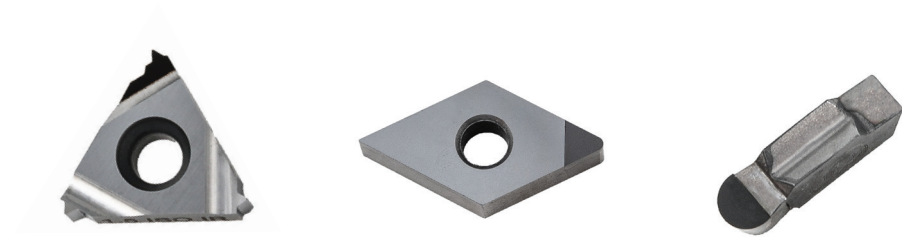
### TYPES OF INSERTS

#### STANDARDS

- ISO
- ANSI

#### SPECIALS

- MADE TO PRINT



## PCD FACE MILLING TOOLS

Mastertech Diamond produces and supports a complete product line of aluminum body face mills in standard and special sizes and geometries. This includes all styles of PCD milling inserts for all applications. Integrating these face mills into your production facility will enable you to hold close tolerances and surface finishes while simultaneously increasing your productivity to the limits of your machine tools.

### TYPES

#### FACE MILLING

- LEAD 0°
- LEAD 45°

#### SPECIALS

- MADE TO PRINT



## PCBN INSERTS

Substantial reduction in production costs can be achieved by using Mastertech Diamond PCBN (Polycrystalline Boron Nitride) inserts to machine hardened steels >45Rc, pearlitic cast iron, hard iron, high nickel alloys and superalloys. PCBN inserts are a viable alternative to the grinding of these materials.

### BENEFITS

- Faster speeds and feeds-up to 300% faster cycle times
- Reduced scrap and improved workpiece quality
- Tighter dimensional control; excellent surface finishes (8-12 RMS)
- Multiple operations in one chucking as opposed to several set-ups with grinding
- Positive environmental impact-eliminating grinding swarf. Most hard turning operations do not require coolant; chips can be recycled

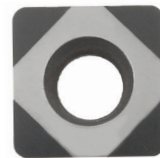
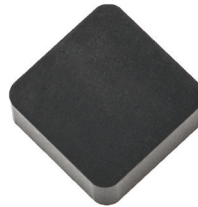
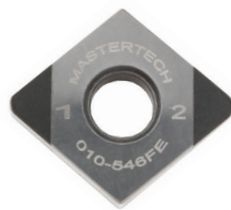
### TYPES OF INSERTS

#### STANDARDS

- ISO
- ANSI

#### SPECIALS

- MADE TO PRINT



## PCD ROTARY TOOLS

Mastertech Diamond produces standard and custom PCD (Polycrystalline Diamond) rotary tools such as drills, reamers, end mills, step tools, counterbore tools all with and without coolant through capabilities. We also offer complete refurbish service on any manufacturer's rotary toolings.

### TYPES

#### DRILLS

- STEP
- G-STYLE
- STANDARDS

#### REAMERS

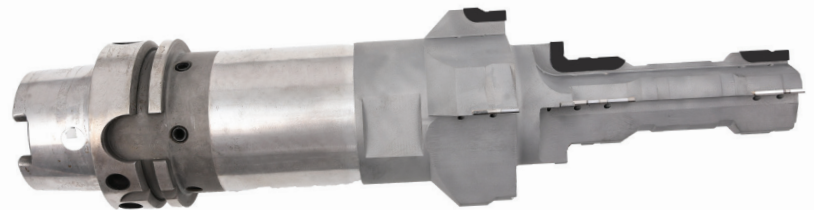
#### ENDMILLS

- STRAIGHT FLUTE
- HELICAL FLUTE

#### BORING

#### MONO-BLOCK

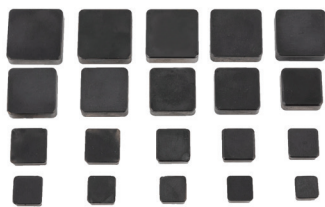
- HSK 63-80-100
- BT-40 — BT-50



# SPECIALTY PRODUCTS



**3-D LASER-CUT CHIP  
BREAKER INSERTS**



**DOWNSIZING  
PROGRAM**



**SPECIAL  
TOOLING**



## ENGINEERING

Mastertech's commitment to excellence, skilled craftsmanship and expert design engineering has evolved into an innovative line of polycrystalline cutting tools for the metalworking, automotive and aerospace industries.



## QUALITY

Our state-of-the-art technology and climate-controlled facility enables us to offer the highest quality inserts and cutting tools with fast lead times.

\*Mastertech is ISO 9001:2015 certified



## SPECIALTY SERVICES

Mastertech offers a variety of specialty services including, re-lapping, re-setting, re-sizing and re-tipping for all Mastertech Diamond tooling.



## STATE-OF-THE-ART FACILITY

- 12,000 sq. ft.
- Climate-controlled
- Located in Painesville, OH

**55 Florence Avenue  
Painesville, OH 44077**

**440-352-1112  
sales@mastertechdiamond.com**