

INDUSTRIAL

SUPERABRASIVE GRINDING WHEELS AND TOOLS



SINCE 1971,

Abrasive Technology has been at the forefront of the superabrasive industry.

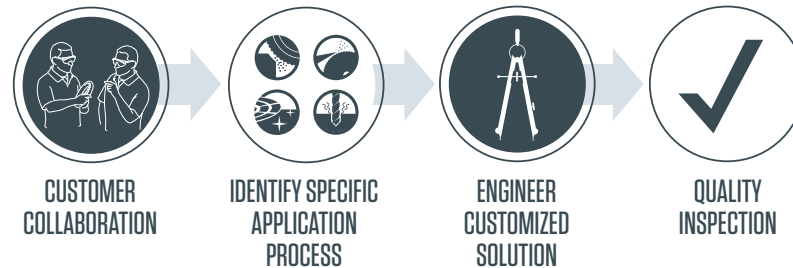


WORLD HEADQUARTERS • LEWIS CENTER, OH USA



We specialize in the development and manufacturing of customized superabrasive grinding products. Our engineering experts have extensive experience addressing complex operations and a comprehensive understanding of materials and applications in many markets and industries.

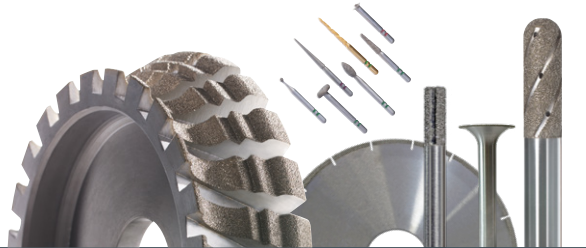
OUR APPROACH



- From Customer Service to Sales, and Product Development Application Engineering, our associates work with you every step of the way to improve your specific application and overall bottom line.
- Globally-connected manufacturing and sales offices for customer support and logistics ensures efficiency and direct communications.
- ISO 9001 certified, Lewis Center, OH Headquarters, North American facilities, and all UK facilities.

SIGNATURE TECHNOLOGY

P.B.S.[®] BRAZE



GRINDING WHEELS • CORE DRILLS • BURS • ROUTERS
MOUNTED SAWS • MOUNTED WHEELS • DISCS

- First patented in 1975 by AT, this original brazed bond process promotes maximum diamond exposure and will not strip or peel during use, providing increased productivity and part consistency.
- Well-suited for cutting non-metallic materials such as graphite material, FRP, fiberglass, friction material, honeycomb and composites/CFRP/GFRP; in addition to carbide and ceramics.
- Minimizes uncut fibers, fiber tear out and delamination in composite materials.
- Ideal for machining tough-to-cut materials where fast stock removal and deep cuts are required.
- Custom-manufactured tools range from 1/32" to 24" in diameter with many sizes in between.
- Custom tools made complete in house from design through manufacturing.
- Deburring and other hand-held operations.

ELECTROPLATED

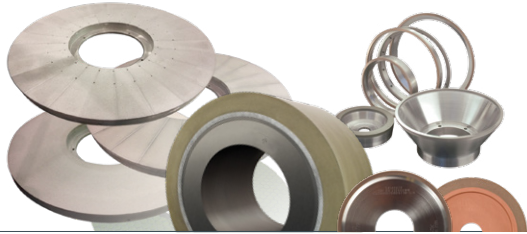


PRECISION FORM • GRINDING WHEELS • ROUTERS
SAW BLADES • MOUNTED WHEELS

- Ideal for manufacturing tight-tolerance forms and ability to hold form/profile from first cut to last.
- Freer cutting, resulting in higher material removal rates.
- Recommended for grinding in creep feed or high-speed grinding applications, including nickel and cobalt-based superalloys, engineered ceramics, ferrous alloys, and tungsten carbide.
- Perfect solution for form, face and O.D. grinding operations in large wheel formats.
- Wheel sizes range from 1/32" to 50" in diameter with many sizes in between.
- Custom tools made complete in house from design through manufacturing.
- Deburring and other hand-held operations.
- Ability to strip and replat the core.

From tough materials to aggressive applications, our wide range of superabrasive bonded solutions are **DESIGNED TO YOUR SPECIFICATIONS.**

RESIN • METAL • HYBRID (RMH)



DOUBLE DISC • INSERT • FLUTING • ROUGHING
FINISHING • PERIPHERY • CENTERLESS
BURR FLUTING • PEEL • THREAD • SLOTTING

- Custom-designed bonds to meet unique application requirements.
- Ideal for the most difficult roughing applications to the finest grinding applications needing a mirror finish.
- Signature VFlex® and DualForce™ technologies set the industry standard for consistent wheel performance, and faster grinding for continuous production.
- Diamond wheels for periphery grinding of carbide, ceramic, and cermet inserts.
- Latest polymer technology for resistance to heat when dry or wet grinding.
- Designed to hold form to increase wheel life allowing for multiple redresses.
- High profile markets include aerospace, automotive, carbide, ceramics, piston rings, optical glass, round tools, and oil & gas.

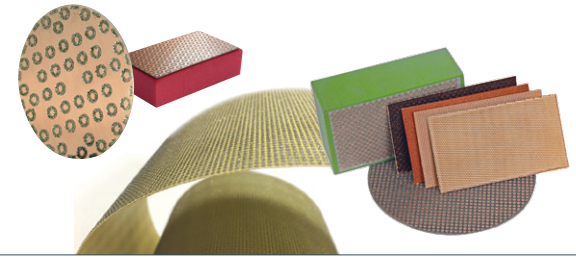
PCD • PCBN • DRESSERS



BORING • COMBINATION • INSERTS • FORM • MILLING
ROUTER • TURNING • WEAR PARTS • SINGLE POINT
COMMUTATOR

- Custom developed tools for customers' specific turning, boring, reaming and milling applications.
- Reduced cycle time due to PCD's & PCBN's thermal conductivity and heat resistance.
- Minimizes CFC fiber tear out and delamination, greatly reducing hand finishing requirements.
- Recommended to machine non-ferrous and very abrasive materials with a capacity to out-produce carbide tools.
- Combination tooling, combining several tool operations in one pass, is designed for customers' specific applications and ensures high component consistency.
- Best uses include aluminium, composites, plastics, friction material and cast iron.
- Dressing tools for wide variety of applications.

FLEXIBLE



HAND PADS • BELTS • PADS • STRIPS • DISCS

(AVAILABLE IN QUICK CONNECT, PSA, AND HOOK AND LOOP)

- Ideally designed for contouring, shaping, and feathering; as well as making delicate adjustments to a formed surface.
- The cool, rapid, even cutting eliminates surface distortion, increasing productivity and reducing costs.
- Reduced dig outs and scallops allow for reduced reworks and eases operator fatigue.
- Best for use in composites, stone, and steel operations.
- Deburring and other hand-held operations.

MATERIAL GRINDING & APPLICATION SOLUTIONS

ELECTRO PLATED

P.B.S. BRAZE

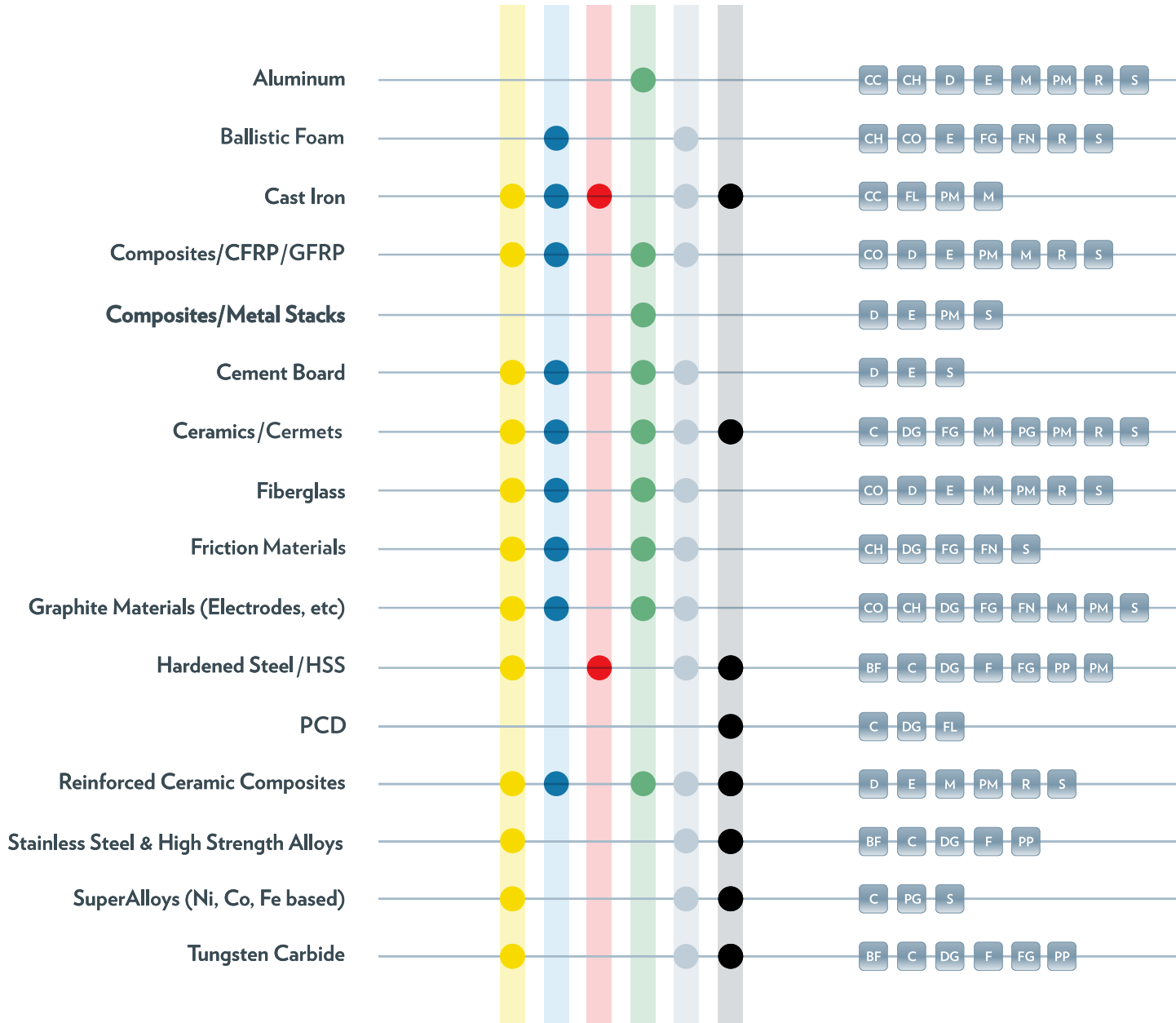
PCBN

PCD

FLEXIBLE

RMH

= RESIN • METAL • HYBRID



APPLICATION PROCESS

- BF** BURR FLUTING
- CC** CASTING CLEANUP
- C** CENTERLESS
- CH** CHAMFERING
- CO** CUTOFF
- D** DRILLING
- DG** O.D. & I.D. GRIND
- E** EDGING
- F** FLUTING
- FG** FORM GRIND
- FL** FLAT GRIND
- FN** FINISHING
- M** MILLING
- PG** PRECISION GRIND
- PM** PRECISION MACHINING
- PP** PINCH & PEEL GRIND
- R** ROUTING
- S** SLOTTING

➤ WE MAKE THE TOOLS
& TECHNOLOGIES ➤ THAT MAKE
AN IMPACT ➤ ON THE WORLD
WE LIVE IN



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