



Engineered Grinding Solutions



**VITRIFIED CBN
& DIAMOND**

www.radiac.com

About Radiac Abrasives



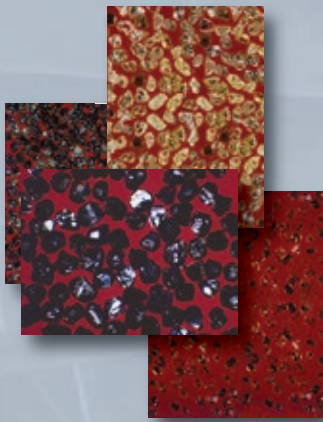
Radiac is a leading full line manufacturer of bonded and superabrasives in North America. For more than 100 years, Radiac has delivered technology and quality in both product and service to the industry. More than a quarter of a million square feet are dedicated to production, inventory, and customer service. As a leading full line producer of grinding wheels, Radiac Abrasives offers more than 50,000 precision built products of high quality, performance, and repeatability for virtually every conceivable manufacturing application. The industry's most experienced Customer Service and Engineering support coupled with exemplary on-time delivery, make Radiac a grinding wheel company that takes great pride in serving the customer. The people of Radiac build quality in every product and through a steady stream of new and innovative products, improved productivity and cost savings measures, Radiac customers stay well ahead of their competition.

Radiac brings this spirit and commitment in technology, products, and services to its newly expanded Vitrified CBN and Diamond Superabrasive product line. Extensive capital investment in plant and equipment as well as R & D for unique new bonds brings Radiac into the forefront of this technology, the fastest growth segment in the industry.

Engineered Grinding Solutions

Vitrified CBN & Diamond Capabilities

Vitrified CBN to grind High Speed Steel and difficult to grind alloys and Vitrified Diamond to grind Carbide bring increased performance to bear in the form of reduced cycle times, improved part geometry and better service life.



Diameter	Up to 24" OD
Thickness	Up to 10" Thick
Shapes	Any and all Intricate Wheel Shapes & Faces
Grain	Wide variety of CBN and Diamond grain sizes, types and qualities
Specifications	Over 500 Established specifications for any material and/or applications
Rim Types	Segmented or Continuous Rim
Wheel Body	Vitrified Silicon Carbide or Aluminum Oxide, Aluminum, Steel, or Bakelite

Vitrified CBN & Diamond Success Stories

Application: Internal grinding of bearing races

Material: 52100

Wheel info: 1-5/8 x 1 x 3/4 (1A8) 1S120 4I18 8 175V

Competition: BX150 4 H 192 V 12 1/4 (Norton)

Advantage Radiac: 50% improved wheel life, reduced cycle time by 12%, improved part quality.

Application: O.D. Grinding of HVOF coated parts

Material: NiCr Thermal Flame-spray coating

Wheel info: 16 x 1 x 5 (1A1) 3SRX120 R4+4 V1638

Competition: 53A60 (Norton)

Advantage Radiac: Reduced cycle time from 55 minutes to under 3 minutes, improved part quality.

Industry-Driven Market Strategy

Radiac's industry-driven market strategy was designed to handle high production, custom engineered grinding applications across all types of manufacturing. Vitrified CBN and Diamond products fall into this high performance category and with Radiac's Industry Group infrastructure already in place, it is a natural fit for our customer base.

As an added bonus, Radiac Engineers are from the very industries that we service: Aerospace, Automotive, Bearing and the Machine Tool Industry. They bring with them the expertise to improve your part quality, reduce cycle time, and increase wheel life. We guarantee it.



Aerospace

To reduce cycle times grinding HVOF spray coatings use Radiac vitrified diamond wheels. Grinding turbine blades with Vitrified CBN products has brought part geometry and wheel life to revolutionary new levels.



Automotive

Grinding camshafts and crankshafts with Vitrified CBN sets the grinding standard in the Automotive industry world-wide. Tight tolerances and precise wheel shapes required to grind steering pumps with VIT CBN are part of Radiac's wide offering across all industries.



Bearing

Use Radiac Vitrified CBN for internal grinding of bearing inner races to reduce cycle times and achieve optimum part quality. O.D. roller body grinding with wheels 16 x 8 x 5 shows Radiac's wide breadth of product availability.



Cutting Tool & Cutlery

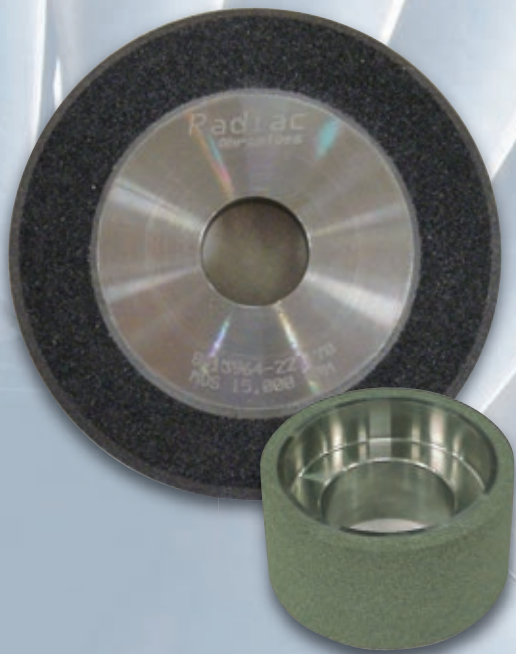
Drills, end mills, countersinks and more are best ground with superabrasives. Vitrified Diamond for Carbide and Vitrified CBN for High Speed Steel has proven most effective by significantly cutting cycle times. Stainless steel razor blade grinding with Vitrified CBN has doubled wheel life across the board.



Machine Manufacturers

Radiac works with OEM's world-wide to build the right wheel for the right machine. Let Radiac take your new production requirements from concept to reality using our industry-trained engineers as part of your machine run-off team.

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The Radiac Commitment

- From the very beginning, Radiac Engineers will work hand-in-hand with Manufacturing Engineers, OEM's, Tool Designers and Ceramic Engineers to develop the most robust application possible.
- Radiac will provide Next-step On-site Engineer assisted testing.
- Radiac is committed to Continual Process Improvement and to bringing the latest developments in Vitrified CBN & Diamond advancements to the customer.
- Radiac will match or exceed the performance of any competitor's wheel.
- Radiac Vitrified CBN & Diamond products are 100% performance guaranteed - call 800-851-1095 or e-mail us at sales@radiac.com for a no-risk test today.

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Radiac Abrasives is supported by a nation-wide industrial distribution network that supports our customers with on-site inventory, specification assistance, and product application know-how. To find a distributor near you, visit www.radiac.com and click on Contact Us.

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