

# DiamondX® Metal Cutting & Grinding Products

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**DIAMOND<sup>®</sup>X** is a revolutionary new generation of tools for the metal-working industry. DiamondX® uses a unique technology that allows a high concentration of diamonds to be solidly bonded to a steel surface for cutting and grinding metal. The results provide a tool life many times longer than standard abrasives such as aluminum oxide, zirconia alumina, ceramic, or silicon carbide.

**It's time to leave abrasives in the past. Here's why the DiamondX® is the future;**

## Cost Efficiency

- Long Tool Life- ranging from 25 to 60 abrasives depending on the application
- Less Down Time- no need to change worn or chipped abrasive wheels.
- Longer Power Tool Life- no abrasive debris and dust extends life of electric grinders

## Productivity

- Reduced Vibration- operators will notice a big difference when using the DiamondX® vs. abrasive wheels on portable tools
- No Wheel Wear- DiamondX® size and shape does not change throughout its tool life so the operator does not need to adjust his work like with abrasive wheels.
- Versatility- One DiamondX® tool will cut or grind a wide variety of metals. No need to change between different abrasive wheels to cut or grind stainless, other ferrous metals, alloys, or hardfacing.
- Contamination- the elements sulfur, chlorine, and iron do not exist in the matrix of the DiamondX® tool.
- DiamondX® is not affected by exposure to water. This is not true of abrasive wheels and cup stones where water will alter the bond characteristics and hardness.

## Safety

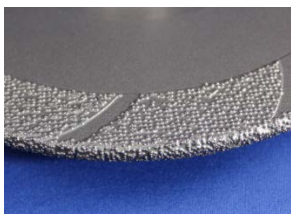
- Greatly reduced risk of wheel breakage.
- Greatly reduced sparks and heat when grinding- modestly reduced sparks when cutting.
- Greatly reduced risk of respiratory and eye irritation. Abrasives produce a high volume of dust and debris but with DiamondX®, the only debris remaining is from the metal material being worked.
- Odor is minimal unlike abrasive wheels which emit odors from woven fiberglass, phenolic resin, sulfur and other hazardous components.
- Will not break or shatter if exposed to water (like reinforced abrasive wheels and cup stones).

## Right Angle Grinders – depressed center, 24 & 50 grit



- The **24G-DXA2920** series are ideal for weld removal, pipe beveling and stock removal on all ferrous and non-ferrous metals including mild, stainless or alloy steels, hard face metal alloys and ceramic.
  - Sizes are 4", 4.5", 5", 6", 7" and 9" with 5/8" – 11 hub (5/8" arbor on 4" disc only). Removable nut for 7/8 arbor. Grit size is 24.
  - Type 29 profile allows for easy and natural grinding
  - Curled edge allows the operator to use the edge of the wheel similar to a 1/4" Type 27 abrasive wheel
  - Replaces Type 27, Type 29 abrasive wheels and can replace Type 5 wheels, Type 6 cup wheels, and Type 11 cup wheels in many applications
- The **50G-DXA2930** series wheels feature finer diamond grit for smoother finish on all materials applicable to the 24G-DXA2920.
  - Sizes are 4", 4.5", 5", 6", 7" and 9" with 5/8" – 11 hub (5/8" arbor on 4" disc only). Removable nut for 7/8 arbor. Grit size is 40/50.
  - The extra cutting edges of the **50G** work well on hard face applications
  - Can replace abrasive flap discs in 40 and 60 grit.

## Right Angle Grinders – hard facing, flat grinding – Type 1

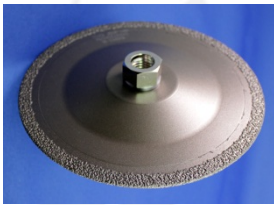


- The **HARDFACE-DXA0125** wheels feature the ability to use both sides at the same time for tight spots and close corners. The Type 1 recessed hub also allows the operator to grind flat or flush to the work. Use for all ferrous and non-ferrous metals including mild, stainless or alloy steels, hard face metal alloys and ceramic.
  - Sizes are 4", 4.5", 5", 6", 7" and 9". Grit size is 36.
  - Removable, reversible 5/8" – 11 hubs extends tool life by 2X. (5/8" arbor on 4" disc only)
  - The .250 thickness allows the edge of the wheel to be used similar to a 1/4" Type 27 abrasive wheel.

## Right Angle Grinders – cut and grind discs

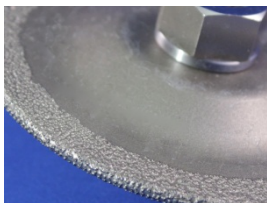
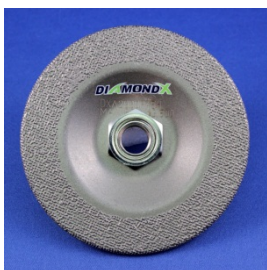


- The **CUT/GRIND-DXB0125** Type 1 wheels are designed to replace 1/8 " thick Type 1 and Type 27 abrasive wheels for cutting, grinding or a combination of both (not for pipeline applications). Cuts and grinds forgings, metal pipe, and plate, sectional tubing, bar steel, ductile iron, etc.
  - Sizes are 4", 4.5", 5", 6", 7" and 9".
  - Thickness is .137".
  - 5/8" arbor on 4" disc and 7/8" on others.
  - 5/8" – 11 hub available on request. Grit size is 36.



- The **FOUNDRY-DXA2725** Type 27 wheels are designed for removal of feeder gates and risers, as well as fettling excess material from castings. The front of the wheel is coated for grinding with the edges and part of the back coated for cutting. One wheel takes the place of 2 different abrasive wheels and cup stones. Use on all ferrous and non-ferrous materials.
  - Sizes are 7" and 9" with 5/8" – 11 hub.
  - Removable nut for 7/8 arbor. Grit size is 36.

## Right Angle Grinders – pipeline discs – Type 27



- The **PIPELINE-DXA2730** wheels are specifically designed for cutting and grinding joint welds between passes in pipeline construction, repair and fabrication. They provide smooth grinding action, fast removal rates with minimal contact pressure. The **PIPELINE-DXA2730** always holds its edge unlike most abrasive pipeline discs.
  - Sizes are 4", 4.5", 5", 6", 7" and 9".
  - 5/8" arbor on 4" disc and 5/8" – 11 hub, removable nut for 7/8 arbor on others.
  - Grit size is 40/50 and thickness is .156 specifically for the pipeline industry.

## Right Angle Grinders – thin cutting discs – Type 1



**DIAMOND<sup>TM</sup>**  
**CUTTER**



- The **Cutter-DXE0130** DiamondX® Cutter is an all-new thin diamond blade that replaces .040/45 thin abrasives. DiamondX® Cutter will cut virtually any metal including steel and stainless steel.
- The DiamondX® Cutter has an amazingly long tool life. It will make more cuts than 20, 30, 50 or more abrasive discs, depending on the application. The labor cost savings from the abrasive wheel changeovers alone will offset the cost of the DiamondX® Cutter.
- Thanks to the high-quality design of steel and diamonds, the DiamondX® Cutter is much more durable than abrasive discs. It will not break or shatter when used with water and other coolants and lubricants and if the wheel were to drop to the floor, it is much more resistant to shock damage.
  - Available as 2 and 3 in. with 3/8 -1/4 arbor
  - 4 in. with 5/8 – 3/8 arbor
  - 4.5, 5, 6 and 9 in. with 7/8 arbor.
  - 7 in. with DIA – 7/8 – 5/8 arbor.
  - Grit size is 40/50.

## Rail Saws & Stationary Saws – cutoff wheels – Type 1



- The **CUTOFF-DXE0120** blades provide exceptional life with less debris, odor, and low vibration. Lasts as long as 20 to 40 abrasive blades. Cuts all sizes and shapes of metal, primarily mild steel, rail track, ductile iron, cast iron and grey iron. For use on portable high speed saws, stationary metal cutoff saws and foundry swing frame machines. Cuts dry, wet or with water soluble lubricants.
  - Sizes are 16, 18, 20, 24, 26, 28 and 30”.
  - Special sizes for large applications are available.
  - Arbor sizes for all saws.
  - Grit size is 24/30.