



DIAMOND DISCS AND BLADES

DIAMONDS ARE A MAN'S BEST FRIEND, TOO

Diamond discs and blades continue to expand their range of applications, while delivering greater cutting life with less vibration and noise. These companies lead the gemology of cutting.

LENOX

METALMAX diamond abrasives from LENOX are a new alternative to abrasive cutoff wheels for increased durability and smooth, clean and even cuts. LENOX METALMAX offers a solution for pain points bonded abrasives can bring, including diameter retention and less dust residue.



LACROIX

"Made with metal-cutting diamonds bonded to the wheel's surface, LENOX METALMAX is

manufactured with a proprietary technology allowing the diamonds to endure high cutting speeds and temperatures while maintaining superior cutting properties," explains Matt Lacroix, director, LENOX Tools. "LENOX METALMAX diamond abrasives deliver 1,000 or more cuts with no need for wheel changes, providing 30 times longer wheel life than thin bonded abrasive cut-off wheels."

The solid steel body design reduces the risk of breakage and its diamond cutting edge wheel does not wear away, allowing it to hold its original wheel diameter until the very last cut. Because LENOX METALMAX doesn't wear out, there is substantial reduction of odor and airborne particles for less dust residue in the workspace.

LENOX METALMAX diamond abrasive wheels range in size from 3 to 14 inches and can deliver 1,000 or more clean cuts per wheel in stainless steel, cast iron, rebar, sheet metal, aluminum and other nonferrous metals.



"For those tradespeople who work with abrasives on a regular basis, it's important for them to have a durable tool," Lacroix states. "LENOX METALMAX has been created to provide easy handling and control, while providing the durability and precision needed on every single cut."

LENOX METALMAX works in multiple applications, with the same power tools as bonded abrasives and in a wide range of materials including steel, stainless steel, cast iron, rebar, sheet metal, aluminum and nonferrous metals. LENOX METALMAX includes a complete line with 15 products, ranging size from 3-inch die grinder wheels to 14-inch cut-off wheels.

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IPA / INNOVATIVE PRODUCTS OF AMERICA

Innovative Products of America (IPA) is an OEM that has specialized in the development of innovative tools and equipment since 1991. IPA products are manufactured in Woodstock, New York. The new model 8150 4.5-inch Type 29 diamond grinding wheel has an innovative, three-dimensional contour with topside abrasive coating and a thin profile edge that allows for cutting, back cutting, gully cutting and bead finishing with one wheel.



VINCI

"The 8150 provides unmatched versatility with its highly durable, diamond abrasive coating," says Ian Vinci, vice president of IPA. "The disc maintains its size and shape throughout its extremely long life, providing consistent reach and performance when dressing welds, accessing corners and more."

"Compared to competitors, this 4.5-inch diamond grinding wheel provides a long-lasting, cleaner and faster cut, saving both time and cost. Depending upon the application, they will last between 20 and 60 times longer than a standard wheel."

A highly-durable diamond coating produces significantly less sparks, debris and odor and maintains its shape and size throughout its lifetime. This ensures consistent reach and performance when dressing welds, accessing corners and more.

The model 8150 has a 7/8-inch arbor, a maximum speed of 14,000 rpm and is recommended for use on ferrous metals, concrete and ceramic. It can also be used on aluminum with proper lubrication.

BOSCH TOOLS

"Vibration and wobble are the enemies of any quality cut in hard materials," begins Matt Van, product manager for Robert Bosch Tool Corporation. "Bosch 12- and 14-inch premium segmented-rim diamond blades deliver fast, efficient cutting in concrete and other hard materials thanks to a tensioned blade core and a high-quality diamond formulation. The tensioned steel core is engineered with an innovative process



Bosch 12- and 14-inch premium segmented-rim diamond blades combine high-quality diamonds and proprietary vibration and wobble reduction technologies for faster, more efficient cutting.



Since 1991, IPA has produced professional industrial products in Woodstock, New York. The new Type 29 model 8150 diamond grinding wheel runs at up to 14,000 rpm and plays well with ferrous metals, concrete and ceramic.

that ensures each blade delivers smooth cuts with low vibration to reduce blade wobble."

These general-purpose segmented-rim blades offer a Bosch-exclusive diamond formulation that cuts most masonry and concrete materials. The 10-millimeter segment height provides up to three times the life of standard diamond blades. Each segment is laser-welded to the steel core, a premium connection method that offers the blade high mechanical strength and rigidity, ensuring greater stability during the cut.

Reduction rings are 1 inch to 20 millimeters, which allows the blade to be used on application-specific concrete-cutting saws. The drive pin ensures the blade can be used on a walk-behind saw.

"Bosch brings rigorous testing, both in laboratories and in the field, to its new product introductions," Van states. "In addition to hands-on customer research, Bosch is the acknowledged leader in tools and accessories built specifically for the concrete market."

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Lackmond's industry-leading range of diamond cutting and grinding products now features redesigned labels that help users make the right choice for their application, quickly and easily.

LACKMOND PRODUCTS

"With the growing trend of large format tile and porcelain tile, it is important to understand which tile blade and saw is best for the job," states Ted Skaff, Lackmond's vice president of marketing. "The size of the tile determines the type of saw to use and the type of tile (i.e., ceramic, porcelain, etc.) determines the blade to use."



SKAFF

Most tile installers need to cut a variety of tiles, from ceramics to porcelains and natural stones. Operators need to understand the differences between these materials to select the correct diamond blade for the job. For example, there are blades for ceramic tile, porcelain, glass and much more.

Diamond blades are manufactured using a synthetic diamond combined with a metal compound to form the matrix. This, along with the actual bond of the matrix, determines what type of material it will cut optimally. There are a few factors to consider when selecting a diamond blade: blade life, cutting speed, the type of material being cut and the level of finish desired.

"There are usually trade-offs when choosing between level of finish and cutting speed or blade life and cutting speed," Skaff notes. "Faster blades are usually engineered with a wider-slot turbo rim or segmented rim. They cut fast but tend to chip the material, which may be okay for a specific job.

"Blades designed with a thinner kerf tend to cut faster due to minimizing the heat and blade drag. Also, diamond blades with longer life usually have a harder bond, which tends to cut a little slower than softer-bonded blades."

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Hitachi's three new 14-inch segmented diamond blades are computer designed for long-lasting general-purpose, cured concrete or green concrete/asphalt cutting applications.

Lackmond Products offers a wide range of blades for every application needed. All Lackmond blades include the application(s) clearly marked on the blade label and the package, making it easy for users to make their decision.

HITACHI POWER TOOLS

"The Hitachi brand has become synonymous with long-lasting performance and the new 14-inch segmented diamond blades are no exception," begins Becky Justice, associate product manager for Hitachi Accessories.



JUSTICE

Each new 14-inch blade — the model 339593 general-purpose, model 115439 for cured concrete and model 115438 for asphalt — is designed to extend working life without compromising performance. Each blade has a higher content of top-grade synthetic diamond metal powder bonds, and is produced via a computerized manufacturing process that eliminates human error.

The 14-millimeter segment height of the Hitachi general purpose blade maximizes cutting life, while still being able to cut through a multitude of concrete and masonry materials.

The cured concrete blade has laser-welded segments and a heat treated steel core to protect against heat buildup caused by friction.

Wedge segments of the Hitachi asphalt/green concrete blade provide undercut protection to drive away slurry and extend cutting life. Each blade is ideal for use with Hitachi's recently launched model CM75EBP 14-inch gas-powered cut-off saw.

"In addition to these new 14-inch blades, Hitachi has also launched

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turbo and segmented turbo blades for 4.5- and 7-inch angle grinders," Justice adds.

MAKITA

To keep pace with its industry-leading saws and grinders, Makita's diamond blade lineup ranges from 4- to 16-inch diameters designed for fast, smooth cutting and long life. Makita blades feature the highest-quality synthetic diamonds embedded into the bonding matrix of each blade. The line includes segmented and turbo diamond blades.



HART

"The smallest blade in the line, the model A-95065 4-inch continuous-rim general-purpose blade is ideal for a variety of cutting applications including porcelain, stone and tile,"

Makita's diamond blade lineup ranges from 4- to 16-inch models and features designs for general purpose cutting, green and cured concrete, asphalt and tuck pointing applications.



says Wayne Hart, communications manager. "The continuous-rim design is engineered for constant contact with the material to deliver a smoother finish than segmented and turbo blades."

One of Makita's most popular 14-inch diamond blades is the model T-01270 segmented dual-purpose blade for use with power cut saws for making concrete in a variety of masonry materials. The high-quality

steel core is expertly tensioned for true cuts and added durability and the segments are laser welded for added durability and improved cutting efficiency. **CS**

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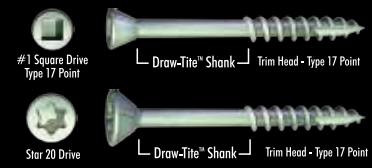


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