



Diablo Steel Demon Cermet Carbide blades promise up to three times the life of standard carbide-tipped blades in steel cutting applications.

CUTTING CLASS: SAWS & BLADES

THE WHOLE SHEBANG — SAWS AND BLADES FOR WOOD, METAL, TILE, STONE, COMPOSITES AND CONCRETE

If this year's saws and blades roundup looks larger than usual, it's because it is. With so many new products being released, our supplier friends asked us to open the category to any tool or accessory that cuts, so we did! Whatever the cutting need may be, this baker's dozen of leading companies has a solution for your customers — including some from companies you may not have seen before. Read and learn!

FREUD DIABLO

Construction materials and techniques continue to evolve each year, with more durable and efficient products arriving on the job site that create new cutting challenges for professionals. As a leading manufacturer of saw blades for the construction industry, Diablo is constantly enhancing and expanding its range of cutting tools to stay in front of the trends and provide real solutions for the contractor.

"An evolving trend in the construction industry is the increased use of steel on the job," says Russell Kohl, CEO of Freud America. "Used for structural applications, roofing, piping, sheathing, kitchen installations and

more, steel is a factor on more and more projects, which has created a growing demand for cutting tools that will handle a variety of alloys with efficiency and durability. This demand led directly to the development of Diablo's newly enhanced Steel Demon Saw Blade range, including three innovative Cermet-tipped circular saw blades for maximum performance in steel."

Diablo designed a specifically formulated Cermet blend of metallic and ceramic particles, and combined these tips with a one-of-a-kind tooth geometry and specialized anti-vibration slots to deliver up to three times the life of standard carbide-tipped blades in steel cutting applications.



KOHL

Steel Demon Cermet teeth provide a harder, more wear- and heat-resistant cutting edge than conventional carbide-tipped blades. Compared to torches or abrasive discs, Diablo Cermet blades provide excellent quality of cut, no surface discoloration and very little heat or spark.

CONTINUED ON PAGE 30

THE BIG SAW THAT MEANS BIGGER BUSINESS

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Freud's Demo Demon 7 1/4-inch framing blade has a special pyramid tooth geometry for maximum tracking and excellent cutting efficiency.

Diablo's new Cermet blades are offered in 8-, 12- and 14-inch diameters.

"Other key trends in the construction market include the increased use of more efficient and powerful cordless saws, and the growing dependence on more demanding man-made framing materials," Kohl notes. "Both trends require straight, accurate cuts; and as cordless tools become a primary cutting tool, they also add the requirement of longer battery life. Diablo meets both demands with its Demo Demon 7 1/4-inch framing blade. Featuring a special pyramid tooth geometry that provides maximum tracking performance and excellent cutting efficiency, the Demo Demon is ideal for both the cordless and corded saw user.

BN PRODUCTS USA

BN Products USA has been a premier supplier of portable rebar cutters and benders for over 30 years. Formerly a division of Banner-Nawman, Inc., BN Products USA operates out of a 56,000-square-foot location on seven acres in the Wickenburg, Arizona. The company continues to develop innovative products for concrete construction professionals.

"We are please to show a new and unique tool to the contractor trade, which we call The Cutting Edge Saw," says Mel Kientz, senior vice president for BN Products USA. "This amazing tool can cut a variety of materials including rebar, all-thread rod, coil rod, EMT conduit, pipe, tubing, burglar bars and more. It is designed to cleanly cut the material *flush* with the surface."



KIENTZ

The compact and lightweight BNCE-20 weighs just 7.6 pounds and has a three-position removable side handle and a rotating trigger handle that provides the operator with multiple cutting positions and increased maneuverability in tight areas.

BN Products USA's BNCE-20, "The Cutting Edge Saw," weighs 7.6 pounds and cleanly cuts a wide variety of materials, all flush with the surface.

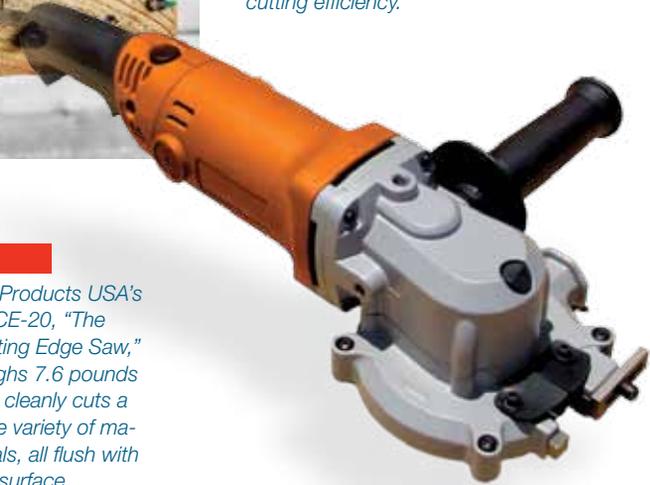
Its professional grade features include an aluminum gear housing, heavy-duty steel gears and a high-performance 9-amp, 1,100-watt motor with sealed ball bearings. Its ABS plastic body terminates in a special rubberized grip end handle.

The BNCE-20 Cutting Edge Saw has a unique flush-cutting blade guard that greatly reduces blade exposure. It also has a double insulated power harness and is ETL/UL Certified & Listed. The tool is designed to emit minimal cutting sparks and the cut material is burr-free and cool to the touch.

BN Products USA also provides replacement parts, TCT cutting blades, technical support, customer service and a network of repair centers. Each Cutting Edge Saw is warranted to be free of defects from workmanship and materials for the period of six months from the date of original purchase. TCT cutting blades have a limited warranty.

LACKMOND PRODUCTS

Lackmond is one of the premier names in the diamond blade market for good reason; its products continually provide cutting, drilling and grinding benchmarks for the industry. Two of Lackmond's newest offerings include LSE-PRO Series diamond blades for metal/ductile iron and PRM-RH Series blades for hard materials.



The new LSE-PRO Series blade is designed to cut metal, stainless steel, ductile iron, rebar, studs, bolts, pipe, sectional tubing and more. The steel core and high-quality diamonds ensure fast cutting speed and very long life compared to standard abrasives.

"The 14-inch LSE-PRO Series blade is engineered for use on high-speed gasoline cutoff saws or higher powered chop saws, giving the user ultimate flexibility," explains Ted Skaff, Lackmond vice president of marketing. "The LSE-PRO Series is the ultimate high-speed diamond blade for metal cutting applications. It delivers very fast, aggressive, clean cutting, ultra-long life and is safer than conventional abrasives."



SKAFF

For more cost-driven users, Lackmond's mid-range PRM-RH Series hard materials blade combines high performance and a competitive price. It is designed to be used on both hand-held and walk-behind saws. The PRM-RH blade is designed to cut hard materials such as hard brick, hard concrete, river rock, granite and more. It is engineered with a reinforced hub which ensures



Lackmond's versatile new LSE-PRO Series blade is designed to cut metal, stainless steel, ductile iron, rebar, studs, bolts, pipe, sectional tubing and more.

straight and accurate cuts on hard materials.

The PRM-RH features a soft-bond matrix for use on hard materials and delivers very fast, aggressive, clean cutting and long life. It can be used in wet or dry cutting applications.

CONTINUED ON PAGE 32

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SOLO

Solo Incorporated, an innovator professional backpack sprayers, has also been a manufacturer of 2-stroke engines since 1948. In 2012, Solo introduced to the market Solo Cut-off Saws. Solo invested over seven years in research and development to produce more durable, technologically advanced and innovative cut-off saws for cutting materials such as concrete, steel, asphalt, castings or stone.

Available in both 12"/300 mm and 14"/350 mm, the 880 and 881 models are powered by an 81cc Solo German-designed and German-manufactured two-stroke engine. Even the hardest metals will not stand a chance against 5.45 hp/ 4 kW of pure power.



LEAHEY

Thanks to an automatic choke system, which eliminates the need for a manual choke, you can start the saw easily on every use. "Our One-Push-Stop System allows the operator to safely stop the saw with the easy push of a button," says Tim Leahey, Solo CI national sales manager.

An innovative air filtration system, which includes an external rocker system, aids in extending the life of the air filter. Nikasil-coated cylinders and 2-ring Mahle-pistons ensure maximum service life expectancy. The anti-vibration system employs five steel springs and rubber-coated handles that significantly reduce user fatigue.

"With the 881 cut-off saw series, Solo Inc. introduced its patented, world's first iLube engine, so you never have to worry about the fuel mixture again," Leahey says. "iLube, which stands for "intelligent lubrication" system, eliminates the need for pre-mixed gasoline. From a separate oil tank with a volume capacity of 10.8 oz/0.32 liters, an electronically controlled pump adds the correct quantity of 2-stroke oil, metered to suit the engine speed, to the fuel."

Even the hardest metals don't stand a chance against the 81cc, 5.4-hp power of Solo's model 880 and 881 cut-off saws.

MAKITA

Makita believes that the tool and the accessory must work together for optimal performance and results. When the right saw is combined with the right blade, it enables contractors to spend more time making cuts and less time changing blades or making multiple passes.

"Just ask an electrician," says Brandon Stover, Makita product manager, accessories. "Cutting two-inch conduit is a frequent application for electricians, but common cordless metal cutting saws top-out at two inches of cutting capacity. This forces the user to roll the pipe or move the saw around the outside, which wastes time and presents the risk of an uneven cut: a clear case of the wrong saw and the wrong blade for the job."

"Makita is offering a more efficient solution with a new 18V LXT Lithium-ion brushless 5 7/8-inch metal cutting saw and a series of 5-7/8-inch blades. The new XSC02 is engineered for fast and efficient metal cutting without the cord, and is ideal for electrical contractors since it will cut two-inch conduit in one pass — a huge time saver. Makita is the first in the industry with a cordless metal cutting saw with a 5 7/8-inch blade, and there are four optimum blade options: 32T carbide tipped for metal and general purpose; 52T for thin metal; 52T for aluminum; and 60T for stainless steel."



STOVER

Makita 5 7/8-inch metal cutting blades have an ultra-thin kerf design that provides smoother cuts with minimal material loss. The ultra-thin kerf also means less drag on the motor, which helps extend the run-time of the fast-charging Makita 18V battery. The new XSC02 is an example of the tool and the accessory engineered to work together for increased efficiency and productivity.

CONTINUED ON PAGE 34

Makita has released the industry's first 18V cordless 5 7-8 inch metal cutting saw which features a full 2 1/4 inches of cutting capacity and four new blade options.





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The new Diablo Steel Demon carbide-tipped reciprocating blades are the first carbide-tipped blades designed for extreme metal cutting; including high strength alloys, cast iron, and stainless steel. These high performance carbide-tipped blades deliver unmatched 20 times longer cutting life than standard bi-metal blades in extreme thick metal cutting applications between 3/16" to 1/2".



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TIGERSTOP

“Manufacturers have to be able to compete globally to be profitable locally. In order to do that, they have to be incredibly efficient — cutting down on costs while increasing output,” begins Jack Ragan, TigerStop vice president of sales and service. “It really doesn’t matter what industry you’re in, this is a hard fact of doing business.



RAGAN

“When we talk about saws, efficiency and increased material yield are paramount. The only way to increase efficiency and throughput is to include automation in manufacturing processes that include saws and cutting functions. You can have the very best equipment, but without some sort of automation in your cutting processes, you’re losing money in labor and material.”

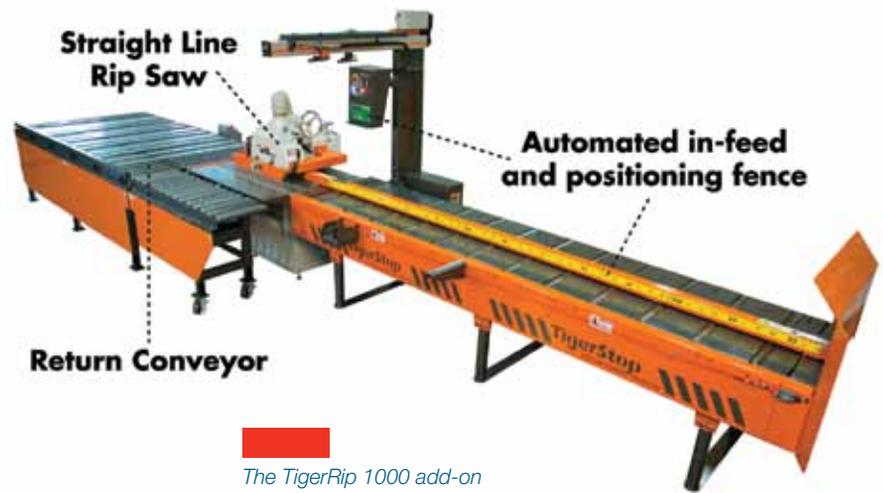
TigerStop, as a company, was founded on the idea that automated length measuring would not only increase part accuracy when cutting, drilling and boring, but that it would cut down on material waste and help save on labor costs — two primary cost components in any manufacturing process. From the company’s core TigerStop product, which is an automated material pusher and stop, to one of its latest products, the TigerRip 1000, TigerStop continues to provide manufacturers with easy and affordable retrofit solutions.

“As automation solution providers, TigerStop plans on continuing to push the envelope in product development by introducing products that help manufacturers of any size be more profitable,” Ragan concludes.

BOSCH

Safety comes first on any job site, especially regarding a table saw where a momentary lack of focus could have permanent consequences. Bosch extends a heritage of award-winning table saw design to enhance workplace safety with the introduction of the REAXX portable job site table saw — the first saw with the company’s proprietary flesh-detecting Active Response Technology.

“Active Response Technology helps reduce injury to users by combining electronic and mechanical injury-prevention systems,” explains Bosch product manager Craig Wilson. “The system on the REAXX table saw detects the human body’s electrical current as flesh comes in contact with the blade, which instantly reacts to drop the blade below the table top. This lightning-fast action helps reduce serious user injury and occurs without damaging the blade.”



The TigerRip 1000 add-on system affordably adds material optimization and automation functions to existing rip saws.

System reset can be done in less than 60 seconds. A single cartridge enables activation for two incidents with no adjustment; just turn the cartridge and re-engage the drive train and the REAXX table saw is ready. All necessary parts, instructions and wrenches are located onboard the saw.

The complexity of the Bosch REAXX on-board control system is translated to an easy-to-understand LED light panel that manages saw operation and indicates saw status. Green means the saw is ready for use; this light is always on unless the saw is in bypass mode. Red means the saw is not ready and will not function until the user corrects an issue. Yellow flashing means the system is in bypass mode and will not react to an incident; this mode is used for cutting conductive materials that can activate the system. A blue light means the saw requires service.

Through a near field communication (NFC) phone app, the saw can communicate information from the onboard control system.

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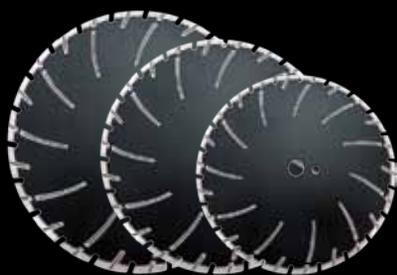
Changing the game: The Bosch REAXX contractor saw features Active Response Technology that helps reduce injury by combining electronic and mechanical injury-prevention systems.





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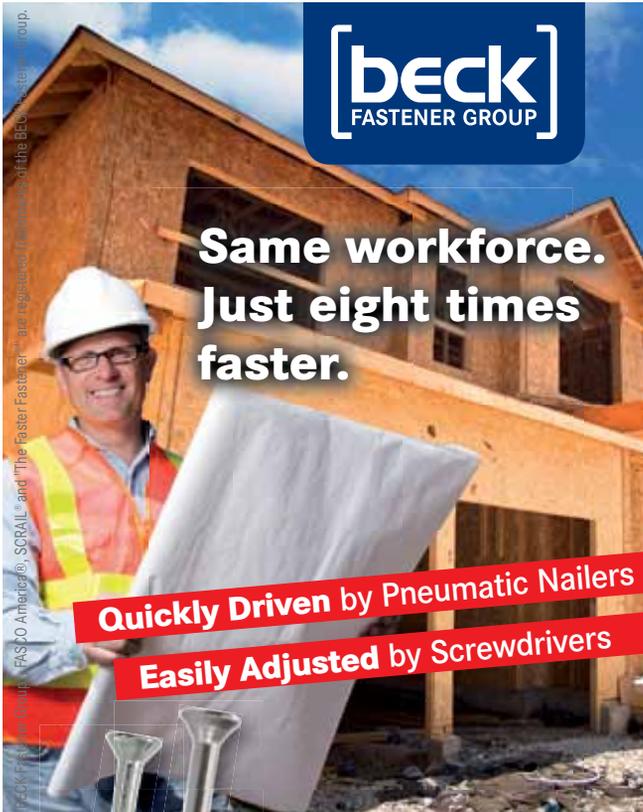
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CORAM TOOLS USA

"Behind the Coram Tools brand stands the inventor of B-Cut saw blades, Marco Steiger. Ever since he invented and developed saw blades for oscillating multifunction power tools in 1997, quality at a fair price has always been first priority for him," observes Walter Wieser, president of Coram Tools USA. "For this reason, Coram uses only the best materials for production and trusts the expertise of Steiger's long-standing and experienced staff."

Sporting its distinctive beaver logo, Coram Tools oscillating blades feature the Swiss quality you would expect from the company that helped invent the category.



WIESER

Coram blades are made in Switzerland with the classic Swiss commitment to precision and quality. This applies to Coram's oscillating saw blades, sanding papers, grout cleaners, brushes and more.

"Extremely low pricing is no problem for Coram Tools since we develop and produce them in our own plant," Wieser adds. "Examples are Coram's exclusive, unique and long lasting hard metal blades."

The company's rapidly growing presence in the USA is testimonial that end-users appreciate Coram's efforts to constantly improve its procedures, handlings and appearances.

"We have chosen the beaver as our logo because it stands for engineering, consistence, reliability — and a tough bite!" Weiser states. "We invite U.S. distributors to be part of our worldwide success. We look forward to speaking with you!"

BARTELL MORRISON

"In diamond blade pricing, it's a race to the bottom, or is it?" asks Jeff Durgin, president of Bartell Morrison USA. "Many users look at the initial cost as the primary factor in their purchase of diamond blades. If they plan on making a small amount of cuts and don't have any further need for the blade, this is the right choice. They want the lowest possible cost associated with the job."



Bartell Morrison knows diamond blades and its *Samuri* II blade exemplifies the company's emphasis on delivering maximum value per inch-foot.

"However, what you don't want is something so cheap that it may be dangerous. In reality, a heavy user should not use price as his guide. A higher-priced blade will usually yield a much lower cost per foot than an economy blade."



DURGIN

For example; when cutting 3,000-psi cured concrete with medium aggregate and #3 rebar, Bartell offers the following estimated inch-feet for Bartell brand blades by quality (plus or minus 30 percent, depending on the operator and the saw):

- The 14BSM0.4 delivers 1,000 inch-feet at an average street price of \$55, or \$.055 per inch-foot.
- The 14BSM1.4 delivers 1,500 inch-feet for an average street price of \$65, or \$.043 per inch-foot.
- The 14BSM2.4 delivers 3,000 inch-feet at an average street price of \$80, or \$.026 per inch-foot.
- Finally, the 14BSM3.4 delivers 6,000 inch-feet at an average street price of \$140, or \$.023 per inch-foot.

"As you can see, your cost per foot drops more than the percentage of increased cost," Durgin notes. "If you cut often, a higher quality blade will lower your cost per cut and will usually cut faster, too."

This also gives the distributor an answer to the contractor's frequent objection, "My guys don't know how to cut properly, so why should I give them a good blade when they will probably just destroy it?" The answer is that a better quality blade will usually have a heavier steel core and superior tension. The fact is that a "throw-away" blade will fail much easier than a better quality blade.

"If your guys are destroying blades, give them something that will handle the abuse better," Durgin observes. "From a safety standpoint, economy blades in the wrong hands can be very dangerous."

CONTINUED ON PAGE 38

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FESTOOL

The track saw has emerged as an adept alternative to full-sized table saws on many job sites. Now, that utility is taken to the next level with Festool's new TSC 55 Cordless Track Saw. The TSC 55 builds on years of system innovation to deliver the most versatile, precise cutting system available, allowing users to go wherever the work takes them.

"Not only can you replace large, stationary equipment with the incredibly precise, handheld track saw system, but now you can go wherever work needs to get done, without the cord," states Festool's Michael Clark. "The TSC 55 can zip through 328 feet (100 meters) of sheet goods on a single charge, while still delivering all the benefits you've come to expect from the Festool Track Saw System."

With the FS Guide Rail System, users can make laser-straight, splinter-free cuts in seconds and splinter-guards on both sides of the blade ensure zero-tearout cuts in virtually any material.

Its dual 18V, 5.2-Ah battery system provides ample cutting power and runtime. The saw delivers bevel cuts to 45 degrees and has a cutting depth on guide rail of 1 15/16 inches (50 mm) straight down and 1 7/16 inches (37 mm) at 45 degrees. Its cutting depth without the guide rail is 2 1/8 inches (55 mm) straight down. Its 6 1/4 inch diameter blade spins at 3,650 - 3,800 rpm with one 18V battery or 2,650-5,200 rpm with two battery packs.

DEWALT

Cordless tools continue to make inroads into formerly corded domains, and DeWalt's new 20V MAX Lithium-ion 7 1/4 inch sliding miter saw, model DCS361, is the latest

The new Festool TSC 55 Cordless Track Saw delivers table saw accuracy in a lightweight, cordless package for unbeatable job site productivity.

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Brand new from DeWalt, the model DCS361 cordless 7 1/4-inch miter saw weighs just 31.6 pounds and handily slices up to 183 pine 2x4s on a single 20V MAX charge.

example. The DCS361 offers portability and convenience, optimized for general contractors and remodelers for various applications including trim installation, flooring work and cutting 2x material.

"The DCS361 features a single left bevel which ranges from -3 to 48 degrees left," elucidates product manager Jeff Beck. "With a 3 1/2 inch maximum vertical, 3 5/8 inch crown nested, and 2x8 inch horizontal cut capacity, the DCS361 will handle most of the common cuts needed. The blade spins at 3,750 rpm and makes, on average 183 cuts of 2x4 pine or 275 cuts of 3-1/4 inch pine base molding on a single 4.0Ah battery charge. It weighs 31.6 pounds with battery and its integrated cast-in side handles make it easy to carry around the job site."

Key ease-of-use features of the DCS361 include an integrated XPS blade light which casts a shadow showing where the blade will cut. A stainless steel miter detent plate makes it easy to adjust the saw. Other features include the saw's 10 positive miter stops, a fast and easy cam lock, and rubber feet for no-slip and no-scratch grip. A high visibility bevel scale, adjustable bevel overrides and a miter pointer on the left side of the table provides maximum visibility and versatility.

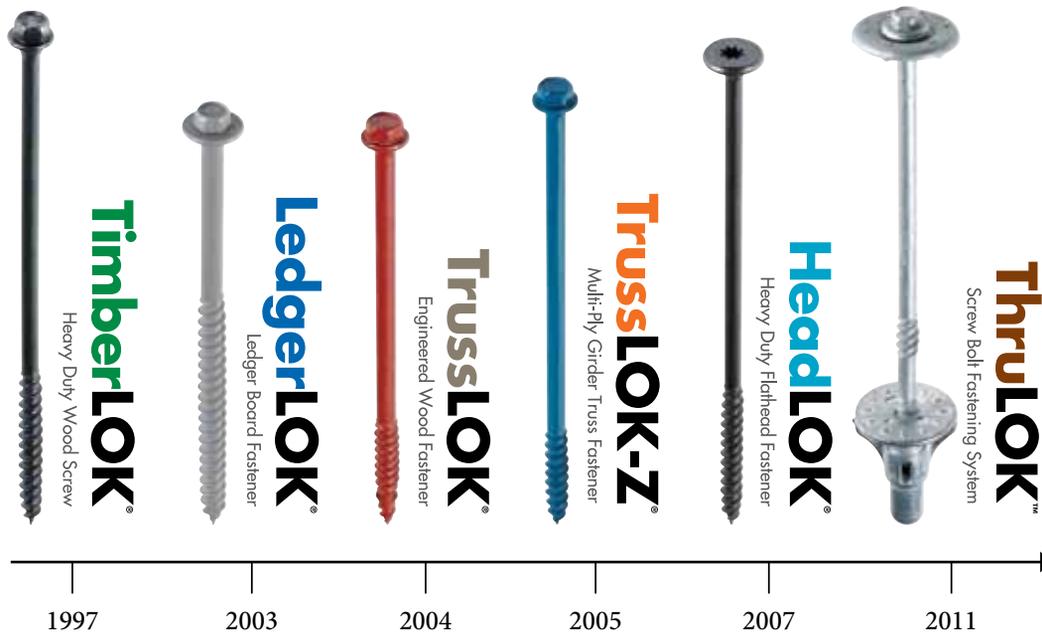
DeWalt's 20V MAX Lithium-ion platform also powers the model DCS387 reciprocating saw. Its compact configuration allows users to make controlled overhead cuts and cuts in tight spaces such as in between studs, under sinks and in corners.

"At 14.5 inches long, the DCS387 is 2.5 inches shorter than our DCS380 cordless reciprocating saw, and allows the user to get into tighter areas and provides more control than the DCS380," Beck adds.

CONTINUED ON PAGE 40



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Spyder Tools' 3X3 double-sided recip blade now features a cobalt strengthened version that delivers multidirectional cuts with ease, even through metal.

SPYDER PRODUCTS

When designing a reciprocating saw blade, there has to be a balance between speed and durability. These blades are used to cut a multitude of materials, often in close quarters, and pros expect excellent performance.



CAMPBELL

"That is why we developed the new Spyder 3X3 double-sided reciprocating saw blades," says Ryan Campbell, general manager, Spyder Products. "The first thing users will notice are the unique features. With three cutting surfaces: the traditional bottom edge, the top and the rounded tip, these blades allow users to get longer life as both sides of the blade can be used for cutting applications."

The double-edge blade also allows for multi-dimensional cuts without flipping the saw over. The rounded tip makes plunge cuts easier, eliminating the need for pilot holes.

"The old saying that you don't know what's inside the walls until you open them up is why we added eight percent cobalt to the blades. They can handle tough cutting, such as nails."

Each blade is equipped with dual tooth configurations, so users can quickly and effectively switch between cutting wood to metal. Spyder offers 6/10 TPI for most rough applications, 10/14 TPI for all-purpose work and 14/18 TPI for metal cutting.

Spyder has increased the strength and durability of the design so users can tackle more and tougher jobs. These blades are designed to cut wood with nails, pipe, sheet metal, plastic, fiberglass and other common construction materials. Manufactured in



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Cool Core combination blades from Star Diamond have a unique high-air-flow design that helps them cut longer without overheating. Cooler blades retain their tension, line of cut and segments longer.

Germany, Spyder 3X3 blades come in multiple tooth configurations for various cutting tasks.

STAR DIAMOND TOOLS

"When looking for a diamond blade, contractors usually are looking for a mix of economy, production and convenience," begins John M. Bernat, Star Diamond Tools, CSO, founder and president.

"At Star Diamond Tools, we have developed a blade that meets all those criteria, but also takes into account operator safety.

The Cool Core combination blade features an exclusive steel core design that keeps the blade operating much cooler than other blades."

When diamond blades overheat, they lose their tension, start to wobble and then jam in the cut. This can result in the blade breaking up or losing a segment, which then becomes a flying projectile.

"As you can readily see in photos of the blades in action, our exclusive Cool Core design dramatically increases the amount of air flow cooling the blade, which significantly reduces its chance of overheating."

The Cool Core combination blade also features a fast cutting 15mm-high alternating laser-welded turbo segment that will cut most construction materials like concrete, asphalt, brick and block.

"We welcome dealers to contact us at 1 (800) 282-6470 and learn more about the Star Diamond Tools Cool Core difference," Bernat adds. **CS**



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