



# DRILL BITS & CUTTING TOOLS

SPEED AND DURABILITY COME TOGETHER IN THESE NEW TOOLS

In most tools, drill bits and cutters included, speed and durability are mutually exclusive — the faster a tool drills or cuts, the faster it wears out. As a result, striking a balance between the two is a key aspect of product design. As such, it is even more amazing that these companies are delivering products that achieve both greater working speed *and* greater life spans.

## LACKMOND PRODUCTS

In the construction industry, like many other industries, innovations, improvements and solutions are essential to keep up with market demands. Building requirements and specifications continue to evolve and it is important to keep up with those trends. The concrete industry continues to grow, and in the current economic environment, that growth is accelerated. Projects are calling for concrete that is stronger, harder and virtually indestructible.

“Lackmond Products recognizes the need to supply carbide-tipped drill bits that keep up with today’s market trends,” says Ted Skaff, Lackmond vice president of marketing. “Carbide drill bits must be able to drill faster,



SKAFF

last longer and be able to resist elements embedded in the base material, such as rebar and/or wire mesh. Whether it be extremely hard concrete, extra rebar in concrete or an extremely abrasive brick, we supply the professional with drill bits to get the job done right.”

Lackmond is meeting these demands with BEAST carbide-tipped drill bits. Lackmond BEAST bits are German-made and provide solutions for drilling some of the hardest rebar-filled concrete in the construction world.

“Whether the need is for drilling small-diameter holes using an SDS Plus shank or larger diameter holes with deeper embedment using and SDS Max or Spline shank, the BEAST has it,” Skaff asserts. “All BEAST carbide drill bits meet ANSI standards and come with a two- or four-claw carbide tip. If you’re looking for the best in carbide drill bits, unleash the BEAST!”

Lackmond’s BEAST carbide-tipped drill bits offer no-compromises performance in the world’s hardest, rebar-filled concrete. They are offered in SDS Plus, SDS Max and Spline shanks.

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# NITRO SAFETY FIRST

## Construction Reamers

- Manufactured by Drillco from M2 premium grade High Speed Steel. Body clearance are Black & Gold surface treated for maximum lubricity and wear resistance.
- Specifically engineered for Heavy-Duty reaming and hole alignment in the fabrication of structural steel assemblies, bridge erection, and ship construction.
- Compatible socket size for both reamer and structural bolt assemblies.
- Designed with safety and jobsite accident prevention in mind. Meets OSHA 29CFR Part 1926.759 (falling objects prevention).

Two Embedded NEO40 MAGNETS secure reamer in socket for safety!



## DRILLCO CUTTING TOOLS



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Makita Impact GOLD insert bits are made with a five-step process for superior fitment engineered to prevent fastener cam-out and stripping. Makita Hollow Sockets speed the installation of fasteners onto long threaded rod.

**MAKITA USA**

When fastening with a high-torque impact driver, insert bits that “cam-out” and strip screws are especially frustrating to contractors. This can be prevented by using insert bits with more accurate fitment that are engineered for use with today’s high-torque impact drivers.

“Accurate fitment is achieved when the bit fully engages the screw with equal contact on all surfaces, resulting in a precision fit with no gaps,” begins Brandon Stover, Makita

product manager, accessories. “Each Impact GOLD insert bit, including the full double-ended power bit range, has superior fitment and is engineered to prevent cam-out and stripping.”

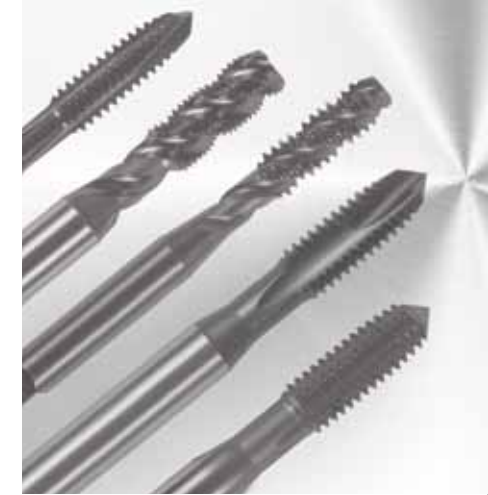


Each Impact GOLD bit is manufactured with a five-step process that begins with high-quality steel and includes precision machining, automatic temperature control for hardening, correction and burr removal to ensure superior fitment, bit after bit.

For longer bit life, Impact GOLD bits are built with Xtreme Torsion Technology. This allows the torsion section of the bit to flex under load and take pressure off the bit tip for increased durability in high-torque applications.

When installing pipes, conduit and HVAC duct work, contractors are often required to fasten nuts down over extra-long threaded rod, sometimes by hand — a time-consuming task. Makita Hollow Sockets speed up this process with the use of an impact or driver-drill. Hollow shafts allow long bolts and threaded rod to pass through, with a 12-point socket for 6- and 12-point fasteners.

Nitro-Max taps and threadformers from Drillco Cutting Tools are the company’s best-performing products ever, with improved coolant flow, better chip removal and increased wear resistance.



Makita Hollow Sockets are impact- and drill-ready, and engineered for use with today’s high-torque impact drivers. They are ideal for use with an 18-volt drill or impact driver, and are a time-saving solution for electricians, HVAC contractors and plumbers.

**DRILLCO CUTTING TOOLS**

“Drillco Cutting Tools, Inc. of Baton Rouge, Louisiana, is excited to announce our highest performing threading products ever!” enthuses Alex Traianopoulos, Drillco director of marketing. “The Nitro-Max range of cut taps and threadformers are engineered for production threading in industry’s most commonly used materials including steel, stainless steel, aluminum, copper, brass and plastic.

Nitro-Max taps and threadformers are manufactured from a modified, enhanced M35 cobalt substrate (HSS-E), with high vanadium content. This material provides increased edge strength and heat resistance. All tools are manufactured with ANSI shanks and squares.

Two options are available. The ANSI/ANSI range has a reduced neck for improved coolant flow and better chip evacuation. The DIN/ANSI range is equipped with DIN

overall lengths for added reach. TiCN (Titanium Carbide) coating helps hold sharp edges, reduces friction and provides increased wear resistance. Nitro-Max spiral point taps, spiral flute taps and threadformers are available in machine screw, fractional and metric sizes.

**DRILTEC**

Late last year, Driltec and longtime German manufacturing partner Heller Tools GmbH introduced new solutions for dustless drilling in concrete, the d-goPRO system and the d-goEXPERT drill bit series for dustless drilling.

“With the d-goPRO, DRILTEC offers a very economical and effective solution for use with standard professional

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**Driteltec's elegantly simple d-goPRO dust containment system works with drill diameters up to 1 1/2 inches. d-goEXPERT bits (not shown) remove dust right at the source as they drill — no muss, no fuss.**

vacuum systems,” explains Leslie Berch, Driteltec president. “Using vacuum power, the d-goPRO attaches by suction to the drilling surface and removes drill dust effectively from the surface. No special drilling machine attachments are needed.”



BERCH

The d-goPRO dustless drilling option accommodates all diameters up to 1 1/2 inches, with one device for all. The d-goPRO works with any drilling machine be it a regular drill, hammer drill or rotary hammer.

With Driteltec d-goEXPERT extraction drill bits, dust is removed right at its source during the drilling process, providing for virtually dust-free holes when required for a secure anchor installation or post-installed reinforcement. Users can save time and money with an installation-ready, clean drill-hole and work area at once. Driteltec d-goEXPERT bits are available ANSI sizes from 1/2 to 1 1/4 inches in diameter.

Driteltec d-goEXPERT drill bits provide a 360-degree adaptor for use with any professional vacuum cleaner. The drill bits are useable without any special rotary hammer attachments and are designed for concrete, masonry, brick, marble and more.

**KLEIN TOOLS**

“While on job sites, we noticed the difficulties tradespeople were having cutting holes quickly and consistently in steel and other materials,” states Dave Mueller, senior product manager at Klein Tools. “Based on those observations, we redesigned our holemaking products to deliver a faster, more reliable and accurate cutting performance, making the job easier and more productive.”



MUELLER

The updated Klein holemaking line is made from heavy-duty steel

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Klein proudly launches an all-new line of bimetal hole saws, double-fluted step bits and wood boring bits engineered to deliver faster drilling and cutting performance and longer tool life.

for fast, superior cutting and is engineered for longer-lasting performance and higher durability. The line includes new bimetal hole saws, double-fluted step drill bits and wood boring bits.

Klein bimetal hole saws are optimized for cutting steel — even stainless — and also cut precise holes in drywall, ceiling tile, laminate, wood and plastic. Multiple slots provide different leverage points to easily remove material. Thick back plates and walls stand up to heavy use.

Double-fluted step drill bits provide faster drilling than single-flute bits. Their easy-to-read silver step rings save time when drilling common holes. They have fast-starting, non-walking drill tips and thick, extra-long 3/8-inch hex shanks for firm, positive grip in drills with no spin-outs.

Klein's wood boring bits feature a new low-torque design that greatly reduces wrist fatigue associated with standard auger bits. They easily change direction when drilling holes to customize shapes and their unique head shape minimizes vibration while drilling versus ordinary paddle bits. Maintenance is aided with easy-to-sharpen cutting blades and easy-to-replace pilot screw shafts.

### WALTER SURFACE TECHNOLOGIES

Walter Surface Technologies has redesigned its annular core cutters with a sophisticated mix of high-speed steel and aluminum (M2Al) to be even more resistant to impact and stress, less brittle and impervious to deformation. There are three main lines in this category: SST Core Cut, ICECUT and Carbide Core Cutters.



DRAINVILLE

The SST Core Cut has a surface treatment that reduces heat transfer which Walter claims makes it the longest lasting uncoated core cutter available. The SST Core Cut is perfect for construction sites and manufacturing processes.

The ICECUT core cutter is coated with aluminum-chromium nitride PVD coating (AlCrN), which makes it ideal where lubricants are not permitted or problematic. The coating forms a nano-sized lubrication layer when heated, which prevents debris from rubbing, melting or deforming onto the metal.

The ICECUT core cutter has a heat resistance over 500 C higher than a titanium-coated cutter and over 200 C higher than a titanium-aluminum blend, making it the most heat-resistant core cutter available. In addition, both the SST and ICECUT are designed with an exclusive multiple tooth design with various heights and depths for faster drilling.



Walter's next-generation annular core cutters are more impact- and stress-resistant, less brittle and are impervious to deformation. They include three lines: SST Core Cut, ICECUT and Carbide Core Cutters.

The Carbide Core Cutter, Walter's top performing cutter, allows users to maximize productivity when cutting hard metals and uneven surfaces. Designed for extreme applications, it can pierce through abrasive materials and stainless steel. A lubricant zone allows lubricants to get closer to the teeth for a cooler and smoother cut.

"This new generation of annular core cutters sets the standard for efficiency, reliability and high performance," says Stephane Drainville, product manager. "By formulating our core cutters with this new blend of high-speed steel and aluminum, we can increase the life of the product and the precision and quality of the hole being drilled, which leads to additional cost savings for our customers."

### HOUGEN

Whether in construction, fabrication or maintenance, getting the job done right the first time is important and having the right tool makes it all that much easier. When it comes to holes in steel, Hougen Manufacturing recognizes this and manufactures only premium quality magnetic drills and annular cutters that are built to last. With a wide range of models for all types of applications, Hougen has listened to customers and designed new products to meet their demands.

"This past year Hougen has introduced magnetic drills that include new innovations, more features and increases in power and torque," states Greg Londrigan, Hougen marketing coordinator. "New drills include the completely redesigned HMD904, the two-speed HMD905, the two-speed power-feed HMD927 and the heavy-duty two-speed fabrication drill, the HMD917."



LONDRIGAN

One of Hougen's "brightest" innovations is the LED pilot light which allows the operator to clearly see the pilot tip in

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NEW!

## MAGNETIC DRILL PILOT LIGHT

From low light to no light, never worry about seeing where you are drilling again. The LED Pilot Light is a standard feature on new models of Hougen magnetic drills. Visit [hougen.com](http://hougen.com) and see first hand the three new models of magnetic drills plus the redesigned HMD904.

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Hougen's new mag drills, such as the HMD904 drill shown here, feature numerous improvements including LED lighting, more power and torque.

low- or no-light conditions. Other features include a new slot drill arbor system for easier accessory change out and a two-stage magnet that increases holding power by 30 percent when the motor is engaged. New two-speed motors have increased torque on some models by 133 percent.

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"These products incorporate many requests and design changes that will help users be more efficient and productive," Londrigan adds. "As a tool manufacturer, Hougen is proud to service and support its products with local distributors and that our products are Made in the USA."

**BOSCH**

Improved efficiency and productivity is the strand that runs through every aspect of drilling, whether that's drilling in wood or concrete. Best-in-class design delivers advanced metrics for the drill bits that do the job.



"The Bosch Daredevil spade bit relies on a contoured paddle to deliver 10 times the speed versus conventional spade bits," states Mike Gerskovich, Bosch marketing director, accessories. "This wave-like shape increases chip removal, adding to the speed of the bit, and requires less force from the user. A spur-and-reamer design provides clean hole entry with less breakout – a winner for plumbers, electricians or carpenters looking to keep the job moving."

Bosch Speed Clean bits are built around an internal flute design that extracts dust while drilling when connected to a compatible vacuum, resulting in 25 percent greater drilling speed. The vacuum-based dust extraction bit system saves time, saves money and produces less dust than traditional drilling methods. And the bits can be part of an engineered solution to meet OSHA guidelines regarding airborne silica dust on construction sites.

In 2016, the Bosch system will be optimized for adhesive anchoring applications with Simpson Strong-Tie adhesives. This "drill and fill" system means fewer steps per installation, which reduces human error for greater consistency, reduces installation time by up to 50 percent and controls overall installation cost. **CS**

Bosch Daredevil spade bits feature a contoured paddle that delivers 10 times the drilling speed of a conventional spade bit. A spur-and-reamer design provides clean hole entry.



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