



CS Unitec's TFP 260 floor scarifier boasts an 8-hp Honda GX240 gas motor and is also available in an electric version. It has a 10-inch cutting width and 1/4-inch maximum cutting depth per pass.

grooved profile for waterproofing and non-slip surface applications. The TFP 260 is also available with an electric motor in the model 326.2006T."

The TFP 260 has a 10-inch cutting width and 1/4-inch maximum cutting depth per pass. Depth control enables removal of surface materials without damaging the substrate, maximizing performance and extending cutter life. Other features include a quick-lift drum lever for operator

CONTINUED ON PAGE 36

automatic bit locking. The tool has a long power cord with a flexible ball grommet that pivots 35 degrees to minimize cord wear and tear.

"This versatile hammer lets users get a variety of jobs done, adjusting tool settings based on application and material," Iezzi adds. "It has a no-load rpm at 0-900 for fast drilling and under-load bpm at 0-4,000 for masonry applications. The selector knob makes it easy to switch among drilling only, hammer drilling and chiseling."

The rotary hammer's efficient air-flow design optimizes air circulation for optimal motor cooling.

**CS UNITEC**

"Tackle the most demanding surface preparation and material removal applications with CS Unitec's Trelawny floor scarifier," states Tom Carroll, CS Unitec president. "Powered by an 8-hp Honda GX240 gas motor, the TFP 260 model 326.2000T removes coatings and corrosion from concrete and steel surfaces, removes painted lines, roughens concrete and creates a keyed or



CARROLL



Recently released from Bosch, the GBH2-26 1-inch SDS Plus Bulldog Xtreme rotary hammer hits with 2.0 foot-pounds of impact energy and offers three modes of operation.



# CONCRETE EQUIPMENT

## THE NEW NORMAL — WORKING SMARTER AND SAFER

From concrete saws, rotary hammers and related concrete machines to concrete curing products, the industry is focused on bringing professional users maximum performance and maximum protection from dangerous silica dust and noise.

These 11 manufacturers are bringing new levels of technology to bear to help keep workers productive and healthy on the job.

**BOSCH TOOLS**

"The Bosch GBH2-26 1-inch SDS Plus Bulldog Xtreme rotary hammer provides outstanding power and speed to get the job done day after day," begins Mike Iezzi, product manager, corded products, Robert Bosch Tool Corporation. "One in a line of legendary Bulldogs, this hammer weighs only 6.4 pounds, but features an upgraded 8-amp motor that provides outstanding performance, delivering 2.0 foot-pounds of impact energy and 0-4,000 impacts per minute."

The GBH2-26 offers 1-inch diameter capacity and

three modes for maximum versatility: drilling only, hammer drilling and chiseling. The user can optimize the chiseling angle with Vario-Lock positioning. A pistol-style, ergonomic handle with a soft grip provides superior user comfort.

"The job of any rotary hammer is to perform in tough applications and tough conditions," Iezzi says. "The Bosch GBH2-26 Bulldog Xtreme is the latest in a line of heritage rotary hammers built from the user's point of view. That means maximizing power and minimizing weight. Users have told us they want to get the job done with a tool that doesn't break their back, but can handle just about any level of concrete."



IEZZI

The hammer has a rotating brush plate that provides equal power in reverse and ensures long brush life. A variable-speed reversing trigger (integral clutch) offers accurate bit starting and removal of bound fasteners or bits so users can get the job done more quickly. The SDS Plus bit system allows for tool-free bit changes with

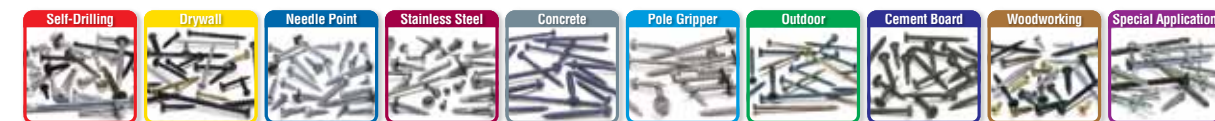
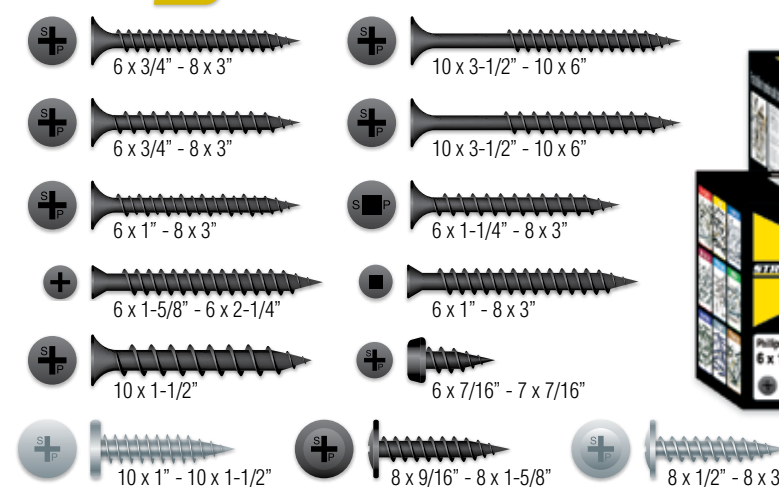
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DEWALT's brand new DCH481X2 is the world's first 60V MAX cordless SDS Max rotary hammer. It features SHOCKS Active Vibration Control and the E-Clutch system for automatic torque adjustment.

control and integrated vacuum connection for dust-free scarifying.

"CS Unitec offers a selection of cutters for a variety of applications," Carroll says. "Tungsten carbide-tipped cutters are ideal for roughing concrete and heavy corrosion removal, as well as grooving roadways for non-slip surface. Beam cutters remove light paint and corrosion with minimal damage to the substrate. Star cutters are optimal for mastics and rubberized coatings."

**DEWALT**

"In the last three years the rotary hammer business has experienced a fundamental shift," begins Richard Cacchiotti, DEWALT product manager for professional power tools. "We have seen a large migration of users move from the traditional corded to cordless tools. Technology in batteries, motors and materials is driving the users to this change. You can buy a DEWALT cordless rotary hammer kit that will deliver more than a days' worth of work on a single charge with no compromises in performance, runtime, or durability."

Company owners and tool users see the benefit from a job site that is not limited by the distance to the power source. In addition, projects can be completed fast when there's no need to search for power sources. This simply drives user productivity.

Brushless motors and lithium ion packs are the main technology drivers currently in the world of power tools. Dust collection, with the new OSHA Table 1 requirements, will be the next big battleground in rotary hammers and grinders.

"You will see many Table 1 compliant systems and new technologies from DEWALT at World of Concrete 2017 and beyond in this area," Cacchiotti says. "In February 2017, DEWALT is launching its first SDS MAX cordless rotary hammer. This will be the world's first 60V MAX cordless SDS Max rotary hammer with E-Clutch and SHOCKS technology."

This tool's mechanism is optimized for rebar doweling in sizes ranging from #4 to 8. The DEWALT E-Clutch system

senses the rapid acceleration and motion of the tool and reduces motor torque to a manageable level if necessary. This feature becomes especially important when drilling rebar dowels.

SHOCKS Active Vibration Control technology reduces vibration for less user fatigue and greater productivity. Both of the above features are pillars in the DEWALT Perform & Protect line of tools.



**HITACHI POWER TOOLS**

Hitachi continues to improve its technologies with its recently released model DH26PF & the DH28PFY SDS Plus rotary hammers, which deliver greater durability and faster drilling speeds than previous models.

"Higher durability is achieved by incorporating similar hammering mechanisms to Hitachi's larger hammer line with three specific improvements," explains Chris Harris, commercial product manager. "For one, the hammering mechanism now features an air channel system that adds more volume to the air cushion, which reduces wear and damage inside the cylinder.

"Secondly, a ball bearing has been used to replace the brass bushing that supports the front end of the second shaft to prevent a shortage of grease, and reduce the generation of heat that could damage the gear cover. Thirdly, a new internal pressure control mechanism provides smooth airflow in or out of the gear cover to stabilize and ensure hammering action. Also, sealed to prevent grease leakage so they don't lack lubrication, the DH26PF and DH28PFY exhibit prolonged tool life and unmatched durability."



HARRIS

Faster drilling speed is achieved by combining powerful motors and newly optimized hammering mechanisms. The DH26PF features a 7.5-amp motor that produces 2.4 foot-pounds of impact energy.

CONTINUED ON PAGE 38



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Metabo's advanced dust collection systems include heavy-duty die-cast aluminum shrouds for its renovation grinders with that remove dust while also cooling the grinder spindle.

The DH28PFY 1 1/8-inch DSD Plus rotary hammer's 8-amp motor produces a formidable 2.5 foot-pounds of impact energy. Both offer no-load impact speeds of 0-1,100 rpm and impact rates of 0-4,300 ipm.

"The DH28PFY also offers Hitachi's patented User Vibration Protection (UVP) technology, one of the most advanced vibration protection systems to date," Harris adds. "Hitachi's technology implements an internal counterbalance mechanism that moves in the opposite direction of the main body to reduce the vibration felt from concrete drilling or chiseling applications. This results in significantly reduced vibration transfer to the user."

#### METABO

"In 2017, the concrete trade has its eyes focused on the application of the OSHA silica dust exposure rules," observes Antoine Derché, Metabo director of marketing. "With increasing attention to workers' protection, contractors invest more and more in tools that comply with or exceed the regulation. At the same time, the new rule is a great way to educate workers to the risk of silica exposure for tool operators as well as bystanders."



DERCHE'

"At Metabo, we want to go further: we want to offer tools that not only help you comply with the latest regulations, we also want to offer the highest level of quality and performance: the job is done better, faster and safer."

Leveraging the industry experience and know-how from its European markets, Metabo has developed advanced dust-collection solutions that collect dust without slowing down the operation. One specific example is Metabo's renovation grinder line which features strong, heavy-duty aluminum die-cast shrouds. These shrouds perfectly fit the grinder and air-flow is so well controlled that it effectively cools the spindle and keeps it free from concrete dust. The grinder stays cooler, which enhances its life and keeps users safe.

"With a complete dustless system, Metabo provides a solution around our unique vacuum technology for all of OSHA's power tool applications as described in the now-famous Table 1: grinding, cutting, scoring, tuckpointing

and drilling," Derché says. "Our philosophy is simple: safety and performance go hand-in-hand and we proudly offer systems to reflect that ambition. Our safety specialists in the field demonstrate it every day with our customers."

#### SKILSAW

Job site versatility and tool portability takes a leap forward with the SKILSAW MEDUSAW, the first worm drive concrete saw that delivers a complete concrete cutting system with SKILSAW worm drive power and durability. The saw features an integrated GFCI-protected wet/dry dust management system to control dust, allowing for cleaner cuts.

MEDUSAW features a Cut-Ready adjustable plunge lock that allows users to quickly and accurately set and make consistent plunge cuts. An integrated rolling foot plate with rubber wheels helps users to move the saw smoothly across hard surfaces. Rust-resistant brackets and fasteners protect against corrosion. Finally, the tool includes a retractable front pointer to accurately guide the saw along cut lines.

"SKILSAW launched its first concrete cutting saw as part of its commitment to professionals and job site productivity," says said Gregg Mangialardi, SKILSAW product manager. "With MEDUSAW, we built features into the tool so you don't need a second person to hold a vacuum or water hose to collect the dust; or a third person to hold a board down onto the surface to make a straight cut.

"We are very excited to watch MEDUSAW revolutionize the way workers cut concrete in a way that creates job site efficiency and cost savings by combining all of the attachments of aftermarket products into a single, dedicated tool."

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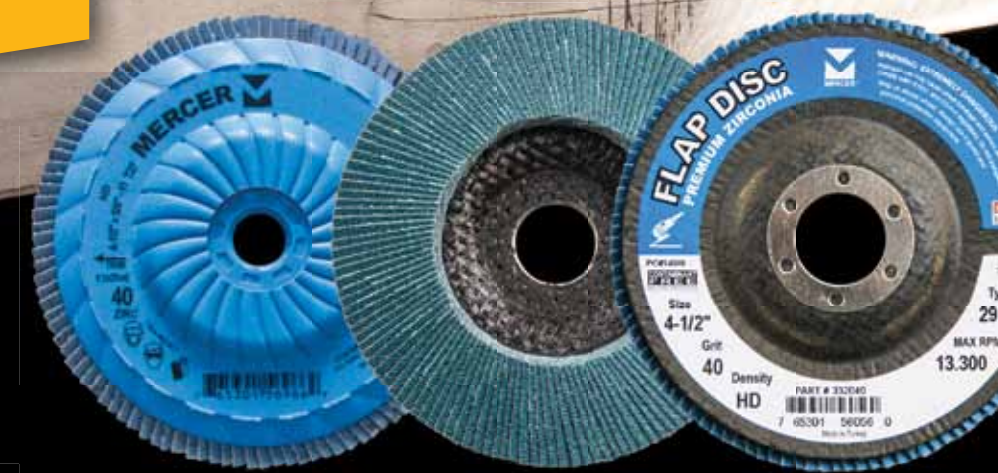
SkilSaw's revolutionary MEDUSAW combines power, portability and versatility in a concrete circular saw that offers both dust collection, wet or dry cutting capability and even plunge cutting.



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MK Diamond's 5-inch IXL hinged vacuum shroud efficiently channels dust away from work surfaces. It fits all major brand 4- to 5-inch grinders.

enhances the grinding process by increasing visibility and extending the cup wheel life by removing abrasive dust.

The highly efficient shroud has been developed for use by contractors for grinding, cleaning, leveling and removing epoxies, urethanes, paint and other coatings on concrete or masonry. The shroud is made from an abrasive-resistant plastic to prevent wear from the grinding process. The hinged nose shroud easy flips to the side for grinding against walls and edges.

Controlling dust is important for health and environmental issues and this shroud addresses those concerns. The IXL Shroud can be used with a HEPA vacuum thus reducing risk of respiratory problems and saving time during cleanup.



DELAHAUT

"We continue to expand our products with silica dust containment being a priority as part of our commitment to the construction, abatement and restoration industries and the safety and health of its workers," states Brian Delahaut, vice president, MK Diamond Products Inc.

The IXL Shroud is easy to install and is designed to fit Dewalt, Milwaukee, Metabo, Bosch and Makita 4- to 5-inch grinders. All of the adaptors necessary to fit these models are supplied. The shroud can be used with cup wheels up to 5 inches in diameter.

The IXL Shroud expands MK Diamond's line of concrete grinding accessories and continues its tradition of being a leading innovator in the construction industry since 1868.

CONTINUED ON PAGE 42



Strong Man VaporBlock Plus 20 is a seven-layer barrier made from state-of-the-art polyethylene and barrier resins. It provides unmatched impact strength and superior resistance to gas and moisture transmission.

"Strong Man VaporBlock Plus 20 is a seven-layer co-extruded barrier made from state-of-the-art polyethylene and barrier resins to provide unmatched impact strength as well as superior resistance to gas and moisture transmission," explains Jay Kinder, Strong Man president. "It works to protect your flooring and other moisture-sensitive furnishings in the building's interior from moisture and water vapor migration, greatly reducing condensation, mold and degradation."

Another product, the Strong Man QuickCure concrete curing blanket, is a winter enclosure tarpaulin used to cure concrete in cold weather areas during general construction and industrial maintenance. The core stays dry, allowing the QuickCure blanket to control the temperature so concrete can achieve the maximum possible strength.

The Conkure wet curing blanket, another quality product offered by Strong Man, consists of highly absorbent synthetic needle-punched fabric coated with a white reflective film. Conkure blankets are lightweight and disposable, making them an economical choice for concrete curing. Yet they are versatile and strong enough to be reused when cared for properly.

"If you need it to be tough and stay that way, Strong Man has you covered," Kinder states. "Our construction solutions are only of the finest quality and we stand behind everything we sell. We're here to make sure you get the job done right the first time."

**MK DIAMOND PRODUCTS**

For concrete workers, dust is the new public enemy number one. MK Diamond Products continues to combat dust with its new five-inch IXL hinged vacuum shroud for surface grinding dust control. The IXL has been designed to utilize the air velocity created by the rotating grinding wheel to efficiently channel dust particles away from the work surface. This technology improves removal of particles, which further



KINDER

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**LACKMOND PRODUCTS**

Lackmond Products Inc. a leading supplier of diamond tools, carbide tools and equipment, recently entered into a joint venture with B+BTec, a leading European manufacturer in the drilling and fastening market since 1969, to market and sell their core drills and rigs, core bits, rail saws and manual tile cutters in North America. The new equipment will be marketed under the under the Beast and B+BTec brands.

*Lackmond's partnership with European core drilling specialists B+BTec promises to set new standards for technology and speed in hand-held and rig-mounted core drilling applications.*

Lackmond's new Beast/B+BTec core drills, rigs and bits are manufactured in Europe and made with the highest quality raw materials utilizing the most advanced manufacturing technology.



The BCR130/5BG is a hand-held core drill with a back-grip that makes it ideal for drilling vertical holes. The BCR130/5MG hand-held core drill with mid-grip provides the operator comfort when drilling horizontal holes.

The BCR300/12 is a mast-mounted core drill rig and is excellent for drilling conduit holes. All Beast/B+BTec core drills are extremely powerful and loaded with countless features including an LED motor overload protection system.

"We are very excited about our new joint venture with B+BTec," says Cliff Sallis, CEO of Lackmond Products Inc. "Their history of manufacturing the highest-quality products, combined with Lackmond's operations and distribution model, will allow us to provide our customers with the highest quality core drills rigs and the best service possible."

The B+BTec line joins Lackmond's industry-leading range of diamond tools, carbide tools and equipment, for the tile, stone and construction markets. Lackmond has been serving professional construction and plant maintenance markets for over 20 years, with seven warehouses in the United States as well as international locations in Canada and Latin America.

**GENERAL EQUIPMENT**

In business for more than 60 years, General Equipment Company is a family-owned manufacturer of earth augers, ventilation blowers, asphalt cutters and surface preparation equipment. The company's model CS8 random crack saw is specifically designed for following and cutting irregular crack patterns in both concrete and asphalt surfaces.

Utilizing an 8-inch (203mm) diameter, dry-cut diamond blade, the saw features a center-mounted blade to offer a highly maneuverable solution to producing smooth-sided cuts for proper crack filling procedures.

Power is supplied by a 13-hp (9.2-kw) Honda GXV390 four-stroke engine equipped with a Cyclone-type air filter system for maximum protection against fine-grained dust contamination. The maximum cutting width is 1/2 inch and the maximum straight-line cutting depth is 1 1/2 inches.



"The CS8's center-mounted blade configuration lets the machine pivot about its own axis to more easily follow random crack patterns," explains Dennis Von Ruden, president. "This design helps maximize blade life by minimizing undercutting. Furthermore, because the saw is pulled during operation, it offers more natural operator control than side-mount blade saws, and affords excellent direct-line visibility of the crack."

*General Equipment's CS8 random crack saw has a center-mount blade design for high maneuverability and a straight-line cutting depth of up to 1 1/2 inches.*

The CS8 features a unitized, welded steel-plate frame with extra heavy-duty, sealed swivel casters and extra capacity, twin-row externally greased bearings.

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Makita brings it to the job site with massively powerful yet well behaved HM1812X3 breaker hammer, the twin-battery-powered XRH05Z cordless 1-inch rotary hammer and the world's first four-stroke power cutter, the 14-inch model EK7651H.

Other standard features include an infinitely adjustable blade-height control and the unique Quik-Pitch blade engage/disengage lever. Also, an integrated dustpan helps collect the high volume of fines produced during sawing and discards them away from the operator for simple collection and disposal. An optional water mist control system is available for wet cutting applications.

#### MAKITA

From gas-powered to corded and cordless products, Makita has concrete and masonry professionals covered with its growing line of world-class solutions that combine power, speed and state-of-the-art safety features.

Makita's newest version of its famed 70-pound demo hammer is the model HM1812X3 breaker hammer. It has a powerful 15-amp motor that delivers a full 53.9 foot-pounds (73.8 joules) of impact energy, so contractors get performance that hits like an air hammer but with less noise and vibration. The tool's massive breaking force is made manageable by Makita's enhanced Anti-Vibration Technology (AVT).



FERNANDEZ

"With enhanced Anti-Vibration Technology (AVT), Makita has raised the bar with engineering innovation that's changing the way contractors work," says David Hernandez, product manager. "In the enhanced AVT three-component system, the internal mechanical counterbalance system, vibration-absorbing housing and fixed movement handles are engineered for significantly less vibration during concrete breaking applications."

Just a handful of years ago the idea of a cordless rotary hammer that could compete with its corded cousins was just an engineer's dream. Today, Makita delivers corded performance in a cordless tool with the 18V X2 LXT Lithium-ion (36V) cordless 1-inch model XRH05Z rotary hammer.

"The XRH05Z is powered by two 18V LXT batteries, delivering the power and run time for corded demands without leaving the 18V platform," Fernandez explains. "With three joules of impact energy and 4,800 bpm, the XRH05Z rotary hammer is engineered to meet the demands of corded 1-inch drilling and hammering concrete applications without having to drag around a cord. Plus, it delivers up to twice the drilling speed of 18-volt rotary hammers, with up to three times as many holes drilled."

Other features common to Makita's broad line of rotary hammers include three-mode operation, one-touch sliding chuck and a torque-limiting clutch engineered to prevent gear damage by automatically disengaging gears if the bit binds.

The XRH05Z also has LED battery indicators that show the charge level for each 18V battery. It has a vibration-absorbing handle, and a compact design at only 14 1/4 inches long. It weighs only 11.3 pounds.

For the ultimate in concrete sawing performance, reliability and convenience, Makita has created the world's first four-stroke power cutter, the 14-inch MM4 model EK7651H. Engine seizures from improperly mixed oil and gas are now a thing of the past. Plus, users now only need one gas can for all their power equipment.

In addition, the EK7651H runs quieter at 92.7 dBa, idles smoother and is more fuel efficient (at .45 gallons per hour) than two-stroke cutters. Automatic decompression reduces pull-starting force by up to 40 percent and reduced exhaust and intake carbon build-up extend cylinder life. The EK7651H has a 4.6-cu (75.6-cc) engine with 4.1 maximum horsepower and a no-load speed of 9,350 rpm. **CS**

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