



The new DEWALT DCH481X2 is the world's first 60V MAX cordless SDS-Max rotary hammer with E-Clutch and SHOCKS technology. It delivers 6.1 joules of impact energy — with no cord.



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CONTINUED ON PAGE 48



ROTARY HAMMERS

WHETHER USERS KEEP THE CORD OR CUT IT, THESE TOOLS ARE BIG HITS

It's not enough to be able to drill holes anymore — contractors have to do it cleanly, too. These latest tool and dust collection offerings are enabling contractors to quickly get concrete drilling applications "done and dusted."

BOSCH

Bosch continues to develop rotary hammers with maximum punch and minimum vibration. Toward that goal, the Bosch model GBH2-28L 1 1/8-inch SDS-Plus Bulldog Xtreme Max rotary hammer features a powerful 8.5-amp motor and KickBack Control, an integrated sensor to stop tool rotation during bit bind-up situations. Counter-balanced vibration control improves user comfort during drilling or chiseling applications.

"A tool that upholds the tradition of

legendary Bosch Bulldog hammers, the GBH2-28L combines user comfort with versatile drilling and hammering functions," says Mike Iezzi, product manager, concrete products. "It provides counter-balanced Vibration Control for more comfortable handling of the hammer."



Control for more comfortable handling of the hammer."

Ideal for masonry pros or general contractors, this tool weighs only 6.9 pounds but delivers 2.4 foot-pounds of impact energy and 0-5,100 bpm. It has a multifunction mode selector for drilling versatility — drill only, hammer drill and chisel. This compact but powerful tool measures 17.4 inches long and 3.5 inches wide and has an impressive 1 1/8-inch drilling capacity in concrete.



The Bosch model GBH2-28L 1 1/8-inch SDS-Plus Bulldog Xtreme Max rotary hammer weighs just 6.9 pounds but delivers 2.4 foot-pounds of impact energy.

"This Bulldog has ideal features for hard-working pros, including a variable-speed reversing trigger for accurate bit starting, Vario-Lock positioning for the optimal chiseling angle, a HammerHook that allows the user to hang the tool on the job and an ergonomic D-handle for user comfort," Iezzi adds. "The job site is a tough place, particularly for power tools working in concrete and masonry. The Bosch GBH2-28L is made to succeed in drilling and chiseling applications that require maximum power in a lightweight tool. At 5,100 no-load bpm, this is the tool for the job."

DEWALT

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

Company owners and users see numerous benefits in job sites that are not limited by the distance to the power source. Projects can be completed fast when there's no need to search for power sources. This simply drives user productivity.

In February 2017, DEWALT launched its first SDS-Max cordless rotary hammer, the world's first 60V MAX cordless SDS-Max rotary hammer with E-Clutch and SHOCKS technology. This tool's mechanism was optimized for rebar doweling in sizes ranging from number 4 to 8.

The DEWALT E-Clutch system senses the rapid acceleration and motion of the tool and reduces the motor torque to a manageable level if necessary. This feature becomes especially important when drilling rebar dowels. The SHOCKS Active Vibration Control technology employed delivers reduced user vibration for less user fatigue and greater productivity.

"Dust collection with the new OSHA Table 1 requirements will be the next big battle ground in rotary hammers and grinders," Cacchiotti states. "You will see many Table 1-compliant systems and new technologies from DEWALT in this area."

MAKITA

“Makita continues to give contractors better solutions for concrete applications,” says David Fernandez, product manager for metal working & concrete products. “Makita rotary hammers deliver consistent industrial performance but with less vibration.”

For improved dust extraction, Makita has an expanding system of attachments and hoses, as well as corded and cordless job site vacuums that meet the OSHA Standard for Occupational Exposure to Respirable Crystalline Silica (rule 1926.1153) when used per manufacturer instructions.



FERNANDEZ

For reduced vibration, Makita Anti-Vibration Technology (AVT), a counterbalance engineered inside the tool, significantly reduces vibration. Advanced AVT-equipped rotary hammers offer significantly less vibration: the model HR4013C 1 9/16-inch Advanced AVT rotary hammer produces just 5m/s² of vibration. The 2-inch model HR5212C Advanced AVT rotary hammer produces just 9m/s².

“Each of these tools has category-leading vibration ratings with no compromise in performance,” Fernandez states. “Makita also has AVT rotary hammers in the 1 1/4- and 1-inch classes, as well as AVT demolition and breaker hammers from 17 to 70 pounds.”

Makita offers an expanding system of OSHA-compliant dust extraction solutions for use with Makita SDS-Plus and SDS-Max rotary hammers, as well as demo and breaker hammers. For example, the 2-inch AVT rotary hammer can be combined with a dust extraction attachment, connector hose and the 12-gallon Xtract Vac vacuum (VC4710). The 1 9/16-inch AVT rotary hammer also



Makita's Anti-Vibration Technology rotary hammers, dust collection systems and HEPA vacuum combinations are ready to comply with the new OSHA crystalline silica rules.

can be used with similar systems and Xtract Vac vacuum.

Users can also go cordless with the new 18V X2 (36V) LXT cordless/corded 2.1-gallon HEPA filter dry vacuum (XCV04Z), which is powered by two 18-volt batteries in cordless mode. These are just two examples of Makita's range of dust extraction solutions that meet the new OSHA Respirable Crystalline Silica Rule.

HITACHI

“Innovation runs deep in Hitachi's DNA. Our AC Brushless Rotary and Demolition hammers are no exception,” states product manager Chris Harris. “We have a history of innovative ideas such as IDI, UVP, AHB and now AC Brushless. Our newest line of rotary and demolition hammers with AC brushless motors are the pinnacle of innovation.”



HARRIS

The AC brushless motor has many benefits over traditional carbon brush motors: it is smaller, more efficient and virtually maintenance free. These offer great end-user benefits, but Hitachi AC brushless motors also feature internal circuitry that allows the tools to be run on long extension cords with minimal effects of voltage drop.

Hitachi's model H65SD3 44-pound demolition hammer features User Vibration Protection, double-insulated Aluminum Housing Body construction and produces 13.9m/s² of vibration.



Hitachi AC brushless tools are also able to be run on a generator, which allows end users to work on job sites or infrastructure with no power supply. Hitachi AC brushless rotary and demolition hammers also have built-in protection to prevent damage to the tool or injury to the user. Overload protection shuts the tool off in the event of excessive pressure on the tool while in use. Over-temp protection shuts the tool off in the event the internal temperature of the tool surpasses the allowable limit.

“Further, a needle-pin slip clutch allows the tool to slip if the tool binds on hidden objects such as rebar, and over/under voltage protection will shut the tool off if the power supply produces too much or not enough current to run the tool,” Harris adds.

CONTINUED ON PAGE 50

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Metabo's 36-volt KHA 36-18 LTX cordless rotary hammer is now offered in a version that runs on two 18-volt batteries, a big plus for users who already own 18-volt Metabo tools.

METABO

"At Metabo, we see a positive trend in concrete construction," observes Antoine Derche, director of product and marketing. "Market



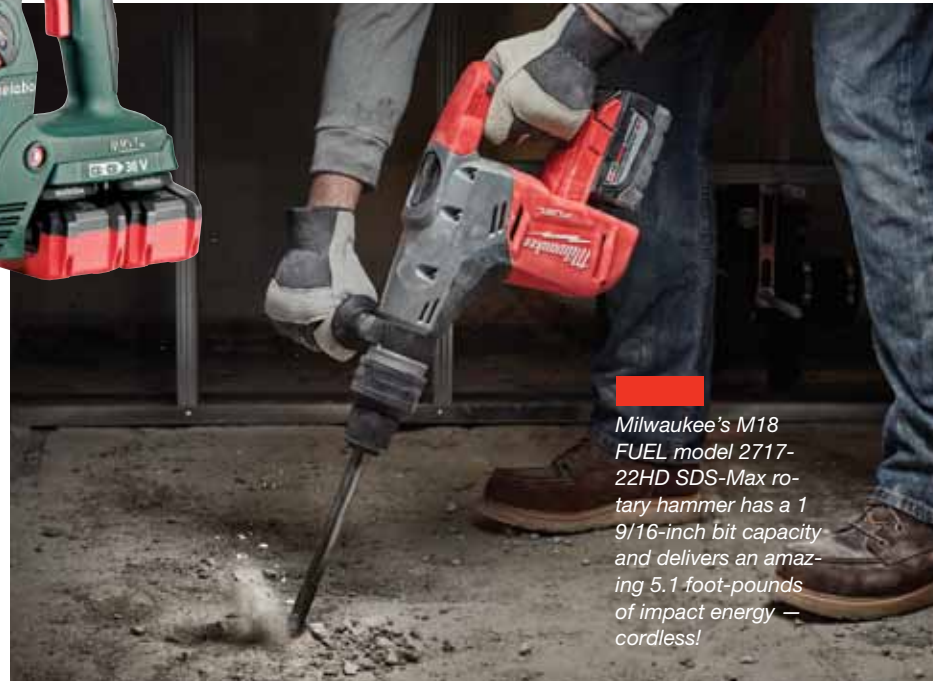
needs are growing and we see a larger demand for a high-performance tool. More customers are requesting our Made in Germany products that will provide a higher return in the long run.

"For example, the new KHE D-26 1-inch D-handle combination hammer is designed to be the fastest anchoring machine from 3/16 to 1/2 inches and its early success illustrates the willingness of customers to pay for performance."

The hot topic this year is the new OSHA ruling on occupational safety silica dust exposure.

"Combining our leadership in power tool safety and experience with stringent European regulation, we have anticipated this and already offer our customers the most advanced dustless systems. With the smartest HEPA filter management technology and highest suction performance, our vacuum and shroud combinations allow our customers to serenely comply without compromising performance."

Metabo's newly formed safety team also provides safety trainings on job sites and helps customers better understand the implications of the OSHA regulations, including the kinds of engineered solutions needed and levels of dust filtration required.



Milwaukee's M18 FUEL model 2717-22HD SDS-Max rotary hammer has a 1 9/16-inch bit capacity and delivers an amazing 5.1 foot-pounds of impact energy — cordless!

"We are also happy to introduce a series of new tools that outperform current competitors' standards. Our best-in-class 36V 1 1/4-inch rotary hammer is now offered in a 2x 18V configuration which allows any contractor already in the 18V family to step up to 36V power. And our new UHEV 2860-2 Quick "universal hammer" is now more powerful than ever. It combines a two-speed drill and a rotary hammer."

MILWAUKEE

"As users look for increased productivity, Milwaukee's advances in motor and battery technology have made it possible for us to provide the first full range of SDS-Plus solutions and the world's first 18V SDS-Max rotary hammer on a single battery platform,"



begins Andrew Plowman, vice president of product management. "Until now, the technology did not exist to use a single battery platform that was small enough for use on compact tools but powerful enough for medium and large tools. This has allowed the rotary hammer market to trend away from corded and into cordless solutions."

Based on M18 FUEL technologies, Milwaukee developed a single-battery system solution that meets the full range of user needs. The full solution includes a lightweight M18 5/8-inch hammer for the compact segment, M18 7/8-inch and M18 FUEL 1-inch tools for the medium segment which makes up the majority of the market and an M18 FUEL 1 1/8-inch hammer for the most demanding applications in the large SDS-Plus segment.

"Most recently, Milwaukee introduced a first to the industry — an M18 FUEL SDS-Max rotary hammer with a 1 9/16-inch drilling capacity," Plowman adds. "This hammer is the first of its kind to provide SDS-Max drilling and chipping in a cordless solution. With the launch of this new rotary hammer, Milwaukee is now the only power tool manufacturer to provide a full line of rotary hammer solutions all on one battery platform." **CS**

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