



Makita Anti-Vibration Technology (AVT) is more than just a padded handle — it's a synchronized, three-component system engineered into the tool to effectively reduce vibration without compromising performance.

# CONCRETE EQUIPMENT

## FOR 2016, MORE UPGRADES, LESS DUST AND VIBRATION

Vibration reduction and dust containment continue to headline improvements in concrete equipment for 2016, but engine and performance

improvements are also on tap. From air and electric tools to gas equipment and even curing blankets, these manufacturers are making their mark on the slab.

### MAKITA

For reduced vibration when breaking, drilling and chipping concrete, a simple padded handle won't cut it. Makita Anti-Vibration Technology (AVT) revolutionized vibration reduction with a counterbalance system engineered inside the tool for more effective vibration reduction, giving

users low vibration levels without a compromise in performance. Makita offers AVT in every major hammer category, from two-inch rotary hammers to 70-pound breaker hammers.

"With the new Advanced Anti-Vibration Technology (AVT), Makita raised the bar with engineering innovation that's changing the way contractors work," states David Fernandez, product manager,  FERNANDEZ metal working and concrete products, Makita U.S.A. "Advanced AVT is more than a padded or spring-loaded handle. It's a synchronized three-component system that is engineered into the tool to more effectively reduce vibration."

As proof, Makita says its 1 9/16-inch model HR4013C and two-inch HR5212C rotary hammers, both with Advanced AVT, have the lowest vibration ratings in their categories, with no compromise in speed and impact energy.

"The new 70-pound model HM1812 Advanced AVT breaker hammer gives contractors the best of both worlds: an electric hammer with the performance of an air hammer," Fernandez adds. "With 53.9 foot-pounds and 72.8 joules of impact energy, the HM1812 is engineered to perform like a pneumatic hammer with less noise, less vibration and zero hassle with an air hose and compressor."

CONTINUED ON PAGE 28

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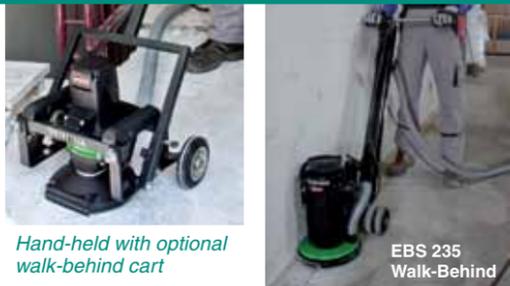
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Bartell Morrison is rolling out a raft of new features for 2016, including upgrade options such as easy-pitch handles for its 46-inch B-446 Mega-T walk-behind power trowel.

The HM1812 features the latest Advanced AVT Technology, a synchronized three-component system that more effectively reduces vibration. The internal mechanical counterbalance system, vibration-absorbing housing, and rubberized fixed movement handles are engineered for significantly less vibration during concrete breaking applications for greater efficiency and productivity combined with greater user comfort.

#### BARTELL MORRISON

"When you look over the years at the trowel industry, there have been great strides made on bigger eight- and ten-foot hydraulic riding trowels," observes Jeff Durgin, president of Bartell Morrison USA. "These offer more power and easier methods to steer, all wrapped up in significantly higher prices. While it has increased production on mega slabs, we haven't seen much change in walk behind trowels or mechanical six- and eight-foot riders."



DURGIN

For 2016 Bartell is launching newly redesigned walkers and riders focusing on power, ergonomics and ease of use. New handle designs allow greater operator comfort while keeping the "Bartell balance" in mind. The new handle will also make it a snap to convert the existing fine-pitch handle to the company's new easy-pitch design. No separate part numbers or weight kits will be necessary to

convert the trowels and there's a significant cost savings as well.

"Our rider lineup is getting more power and a whole host of ergonomically-minded features," Durgin continues. "Keep an eye out for our new Titan series riders. We've spent the last two years working on 25 different improvements that will save the contractor time and effort on the job, and bring ease of use back to mechanical riders."

"Imagine an eight-foot rider that's as easy to operate as a six-footer; costing thousands less than a high maintenance hydraulic unit. Bartell is where the pioneering continues — stay tuned."

#### DEWALT

DEWALT is continually reinventing its products to give contractors more power, better ergonomics, and greater convenience and productivity on the job. Its newest rotary hammers for concrete pros offer either corded or cordless options for maximum versatility.

In corded tools, DEWALT released four new SDS hammers last June, including the 1 1/8-inch D25263K, the one-inch D25262K, a one-inch pistol grip version, D25133K and the 7/8-inch D25260K.

The line-leading 1 1/8-inch model D25263K claims to deliver 15 percent faster average drilling speed than the Bosch Bulldog Extreme Max (RH228VC) when drilling 5/8- by three-inch holes. An 8.5 amp high performance motor delivers 0-1,450 rpm and 0-5,350 bpm with 3.0 joules of impact energy.

"The D25263K hammer also features three operation modes; hammer drill, chipping and drill only," says product manager Brian Koll. "And each SDS rotary hammer also features a rotating brush ring that delivers full power in reverse for bit jam incidents."

DEWALT's growing cordless lineup now includes its first brushless rotary hammer, the one-inch 20V MAX XR brushless SDS hammer, model DCH273P2. It provides 2.1 joules of impact energy and is optimized for chipping work and drilling diameters of 1/2 inch or less. With only 6.6 m/s<sup>2</sup> vibration felt by the user at the handle, this lightweight, SHOCKS-equipped rotary hammer is designed for comfortable use.

CONTINUED ON PAGE 30

DEWALT's three-mode 1 1/8-inch model D25263K brushless rotary hammer produces 0-1,450 rpm and 0-5,350 bpm with 3.0 joules of impact energy.



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Hitachi offers five models of its AC brushless rotary hammers (1 9/16, 1 3/4 and 2 1/16 inches, including the DH40MEY shown), all with AHB Aluminum Housing Body construction and UVP User Vibration Protection.

## CARDI AMERICA Concrete Drilling Products



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CONTINUED ON PAGE 32

### HITACHI

"From the compound miter saw to the cordless impact wrench, Hitachi is known for its innovative contributions to the tool world," begins Chris Harris, commercial product manager.



HARRIS

"Our new AC brushless platform is no different. We have a number of new AC brushless rotary hammers coming to market in February 2016, and demolition hammers will follow."

Hitachi currently has two models of AC Brushless impact wrenches in the market as well. Most users know the benefits of brushless in the cordless market but Hitachi is bringing brushless to the corded market, too. AC brushless enables smaller tools to produce the same power as a larger tool with carbon brushes.

Users also get the added benefit of little to no voltage drop when using the AC brushless tools on long extension cords, as well as the added benefit of being able to use the tools on any gasoline generator.

"With the new Hitachi Rotary hammers, you get a smaller tool to use in tighter work spaces, a lighter tool for more comfortable operation, and you can use the tool on a job site with limited or no power source due to the fact you can run the tools on long extension cords or a generator," Harris says. "The best part is there's no down time to replace worn carbon brushes."

"Combine all of this with Hitachi's AHB (Aluminum Housing Body) for durability and UVP (User Vibration Protection) to reduce vibration transfer and exposure time to the user. With Hitachi, you have the best tool for the job."

lightweight and easy-to-use tool for demolishing concrete, metal and steel on construction and renovation jobs," Armbruster says. "The rivet buster has an eight-inch stroke, weighs just 30 pounds and generates as many as 1,140 bpm for consistent, hard-hitting power."

The TEX 830 features a six-foot whip hose with a claw coupling to minimize setup times. Contractors simply push and twist the coupling to quickly attach the hose to an air compressor and it's ready to go. The unit requires 44 cfm to operate, so contractors can use it with a compact and cost-effective compressor, such as Atlas Copco's XAS 90.

"Atlas Copco offers the rivet buster with a pistol or D-style handle for optimal comfort at a variety of angles," Armbruster adds. "It's used with an 11X jumbo shank and tool steel such as 10-, 12- or 18- inch moil points or narrow chisels."

The TEX 830's teasing throttle adjusts easily for optimal control and accuracy and its long stroke delivers consistent, high-impact energy for fast and effective demolition. In addition to the eight-inch-stroke TEX 830, Atlas Copco offers six- and 11-inch rivet busters.



The Atlas Copco TEX 830 rivet buster gives contractors a lightweight (30 pounds) and easy-to-use tool for demolishing concrete, metal and steel on construction and renovation jobs.



CS Unitec's Trelawny MHS11 multi-headed concrete floor scabbler produces seven times less vibration than standard models thanks to a three-point mechanical vibration damping system.

for waterproofing — any situation requiring gentle, effective scabbling without damaging the substrate below. Integrated Vibro-Lo vibration reduction technology helps keep crucial substrates intact.

"CS Unitec's Trelawny MHS11 multi-headed concrete floor scabbler operates with seven times less vibration than standard models," Carroll adds. "A three-point mechanical vibration damping system offsets the hammer vibration created when the head impacts the work piece. This system enhances operator comfort and has a vibration level of 4.96 Aeq m/s<sup>2</sup>. The unit can operate from a single compressor, consuming 55 cfm of air at 90 psi."

### ATLAS COPCO

Founded in 1873, Stockholm-based Atlas Copco has been producing compressors, vacuum and air treatment, construction and mining equipment for 143 years. The company has more than 44,000 employees in more than 180 countries. Gus Armbruster is product manager, handheld construction tools for Atlas Copco U.S.

"The Atlas Copco TEX 830 rivet buster gives contractors a

The DCH273P2 brushless SDS hammer comes kitted with a 5.0-Ah Lithium-ion battery and is compatible with DEWALT's onboard cordless HEPA dust extractor (D25303DH, sold separately). The rotary hammer also includes a retractable utility hook that allows it to be hung from a belt, lift, ladder or cart. The hammer also features an LED with a 20-second delay that provides visibility in dimly lit spaces.

### CS UNITEC

Pouring and finishing concrete is not as easy as it looks. When initial finishes go awry or when doing retrofit work, equipment like scabblers come into play. Scabblers and other floor prep equipment must be used properly to keep tasks such as removing laitance from become much larger jobs.



CARROLL

"CS Unitec's 11-headed MHS 11 concrete floor scabbler is the ideal machine for concrete keying and laitance removal without damaging the substrate below," states Tom Carroll, CS Unitec president. "The MHS 11 (Model 159.6051) is designed with 11 one-piece piston tungsten, carbide-tipped bush hammer heads that supply 24,200 total light blows per minute."

The MHS 11 has a built-in dust shroud (model 437.0120) to reduce hazardous dust, collect debris and maintain work site cleanliness when connected to a vacuum.

This heavy-duty, pneumatic floor scabbler has a cutting width of 9 5/6-inches with a production capacity of approximately 100 square feet per hour.

Applications include laitance removal from large floor areas, roughing concrete prior to resurfacing and bridge deck preparation



**Conkure Wet Curing Blanket** from Strong-man consists of a highly absorbent synthetic needle-punched fabric coated with a white reflective film. Unlike burlap, it will not rot or mildew.

**STRONG MAN SAFETY PRODUCTS**

Contractors have long relied on burlap for curing concrete, but it's prone to mold, smells bad and can stain. A stronger alternative to protect against moisture during the curing process is the Conkure Wet Curing Blanket from Strong Man Safety Products. Designed to produce the strongest concrete in the industry,

the Conkure blanket protects the surface of concrete as it dries and keeps moisture locked-in, preventing the formation of cracks and minimizing shrinkage. The result is concrete that's not only strong and crack-free, but built to last.



KINDER

"The Conkure blanket can be used in the construction of roads, pavement, columns, bridges, tunnels, decorative concrete and more—meaning you're more likely to run out of projects far before you feel the need to dispose of your blanket," advises Jay Kinder, Strong Man president. "Or not — our blankets are strong enough to be reused when cared for properly."

CONTINUED ON PAGE 34



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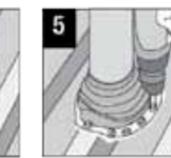
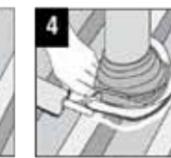
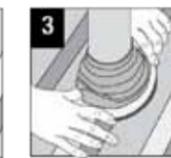
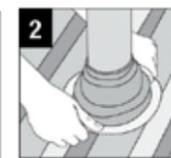
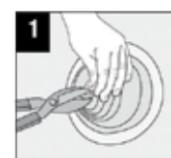
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Wacker Neuson's M1500 and M2500 motors for its HMS flex shaft vibration system weigh less than their predecessors have double-insulated construction, increased thermal capacity and dual air filters.

dual air filter. When the filter does need replacement, it is quickly accessed from the outside by loosening just one screw."

Wacker Neuson's flex shaft system allows contractors to combine a variety of flex shafts, ranging from 1.5 to 30 feet and vibrator heads with diameters from one to 2.75 inches. The M2500 is adaptable to all shaft and head combinations. **CS**

**WACKER NEUSON**

Wacker Neuson's newest motors for its popular HMS flex shaft vibration system, the M1500 and M2500, combined with a variety of heads and shafts, provide optimum concrete consolidation for every type of application.

"The M1500 and M2500 electric motors weigh less than previous

models and offer extremely long service life with carbon brushes that last up to 500 hours of run time," says Luke Sevcik, product application and training specialist for Wacker Neuson.

"Also contributing to these rugged motors' long life is the double-insulated construction with increased thermal capacity and the

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