



CS Unitec's comprehensive tool-and-vacuum systems include hand-held and walk behind concrete grinders; a 7-inch wet/dry electric diamond circular saw for stone and concrete; a 5-inch saw for tile and stone; and 6- and 7-inch wall slotters.

# VACUUMS & DUST COLLECTION

WITH SEPTEMBER 23 LOOMING, MANUFACTURERS GEAR UP FOR A DUST-UP

**A**s mandatory dust collection and silica dust exposure prevention become the order of the day, manufacturers have been creating HEPA systems to comply with OSHA's new directives. These top 11 manufacturers have contractors ready to comply.

**CS UNITEC**

"OSHA's new regulations regarding silica dust go into effect on September 23rd and are changing the way contractors work with all types of tools that cut, grind or sand any material where a silica dust is created," begins Thomas Carroll, president of CS Unitec. "The new standard for silica dust control is designed to protect



CARROLL

the construction worker from excessive exposure during their everyday work by specifically identifying the time and exposure amount."

These requirements are influencing the design and application of many tools that are used by professional building tradesmen. CS Unitec, keenly aware of the impending regulations, offers systems that include the tool along with a dust extraction vacuum that meets or exceeds the requirements set forth in the new regulations.

CS Unitec's complete tool/vacuum systems include 5-, 7- and 9-inch hand-held and walk behind concrete grinders; a 7-inch wet/dry electric diamond circular saw for cutting stone and concrete; a 5-inch saw for cutting tile and stone; and

6- and 7-inch wall slotters for cutting grooves into concrete/masonry walls and floors.

"These tools include integrated dust guards and brush rims to capture dusts and debris when attached to an industrial vacuum," Carroll says. "This entire list of tools can be easily matched with CS Unitec's OSHA-compliant vacuums for complete source capture of silica dust created by the routine operation of the tools near the professional contractor."

"In addition, CS Unitec is diligently working to bring accurate information on the new standards to the building trades in the form of announcements, white papers and compliant-product information."

CONTINUED ON PAGE 74

## COMPLIANCE DEADLINE



### Get the tools you need to control silica dust now!

Your deadline to comply with OSHA's new silica dust rule for construction is September 23, 2017. Nilfisk can help.

Nilfisk's line of HEPA filtered wet/dry vacuums safely collects silica dust and contains it so it doesn't blow back into the air. And self-cleaning filters keep the vacuum running at peak performance. So now you can breathe easy, knowing your job sites are safe and compliant.

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The 14-gallon RIDGID 3410RV Smart Pulse Wet/Dry Vac features a self-cleaning dual filter system with an integrated sensor that continuously monitors suction.

"With cordless tools gaining momentum on job sites, DEWALT has launched an onboard dust extractor used along with their cordless SDS+ hammers that is compliant to OSHA Table 1, using a patented filter cleaning mechanism," Srinivasan says.

#### RIDGID

"RIDGID's new 14-gallon Smart Pulse Wet/Dry Vac with Smart Pulse Technology has the most advanced self-cleaning dual filter system of its kind and provides uninterrupted performance, maximizing efficiency, extending performance and saving cleanup,"



says Dave Hough, marketing manager, Emerson Tool Company. "With a dual blower wheel driven by the 11.5-amp motor to deliver the heavy-duty, high-lift suction, this is the ultimate vac for picking up fine dust and powder from drywall sanding to concrete grinding."

The Smart Pulse vac features two filters and an integrated sensor that continuously monitors suction. When the system identifies a drop in efficiency, it instantly switches to the clean filter and begins blasting air through the clogged filter. This process cleans the filter, yet only when needed, making it the efficiency expert for dust collection from sanding, drilling, grinding and refinishing.

"Pro users push the RIDGID vacs to their limits. With the Smart Pulse, their work doesn't have to stop," Hough adds.

#### BOSCH

"With the latest change to the OSHA silica regulation, workers will need to adapt to a new way of working in applications that

CONTINUED ON PAGE 76



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DEWALT's newest option for OSHA-compliant portable drilling is the D25303DH Dust Extractor, shown here attached to a DEWALT DCH273P2 1-inch 20V MAX SDS Plus rotary hammer.

#### DEWALT

Drilling, cutting and grinding concrete, stone, hollow block and brick generate crystalline silica dust. While some applications can mitigate dust generation with water, most applications preclude water and require an efficient dust extractor to capture the dust generated and limit the exposure of the user within the permissible limits.

The OSHA ruling on crystalline silica construction that will come into effect in September 2017 has been the main driver that has influenced the design and performance parameters of dust vacuums and collections systems to help users adhere to the guidelines laid down in OSHA's Table 1 ruling.



"The key features that drive the design and performance are: sufficient airflow rate and capacity (for grinding/cutting applications, extractors need to deliver 25 cfm per inch wheel diameter); filter efficiency (99 percent or greater); HEPA filters required for cleaning holes; and a filter cleaning mechanism to prevent clogging of filters," says Suresh Srinivasan, director of product marketing.

DEWALT has been in the forefront of driving dust management on job sites for years as part of their Perform & Protect Strategy. So, when OSHA's ruling on crystalline silica was announced, DEWALT was ready with a full suite of dust solutions to support the user comply with the new regulation. DEWALT provides a Table 1-compliant solution for almost all applications which does not require the need to provide objective data and is a huge benefit to users who implement Table 1 controls as method of compliance.



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create dust,” begins David Pizzolato, group manager, Robert Bosch Tool Corporation. “We understand that users are concerned about loss of productivity, increased product costs and protecting worker health. Bosch has heard the market and is working on overall product solutions that focus on tools that increase current productivity, while reducing dust and allowing users to be compliant. The risk will always be there and it’s important that we find ways to help our users overcome these issues.”

The trend is similar to cordless power tools, offering convenience and integrated solutions to increase productivity. The Bosch GDE18V-16 18V Dust Collector is a self-contained unit that incorporates a HEPA filter to control dust and is designed to work with the GBH18V-26 18V SDS-plus rotary hammer. According to independent testing, this integrated HEPA dust extraction system meets OSHA’s silica exposure limits, averaged over an eight-hour day.

The collector mounts directly to the hammer and receives power from the hammer’s battery. Vacuum suction automatically starts when you begin drilling and then powers off after a two-second delay once the hammer trigger is released to collect remaining dust. It has a Dust Eye, which is a bit target designed to align the hammer and bit, making drilling with the attachment more precise.

“Like many other categories in the professional power tool market, products for masonry applications, including dust collection, are seeking solutions that feature increased performance and productivity,” Pizzolato says. “For example, as the industry transitions from a corded to cordless power sources, manufacturers still need to meet the top four needs: power, runtime, performance and size/weight.”

*For dust containment on the go, the Bosch GDE18V-16 Dust Collector snaps onto the GBH18V-26 18V SDS-plus rotary hammer. This system meets OSHA exposure limits averaged over an eight-hour day.*



**TRIMACO**

“We’ve all seen the dust created during a construction and paint job, so why not take a few precautionary steps to prevent the dust from getting into unwanted areas?” begins Charlie Reaves, Trimaco vice president. “Our E-Z Up Poles will keep debris and dust contained to the work area, reducing clean up and making the customer very happy.”

Trimaco’s Heavy Duty E-Z Up Dust Containment Pole works with plastic sheeting to create a dust barrier on the job site. The E-Z Up Pole is made of heavy-duty aluminum and has no loose parts. It is available in three maximum heights – 12, 16 and 20 feet. Simply attach the plastic with the quick clip and adjust the pole to ceiling height. The unique foot pedal ensures a snug fit.

The Trimaco Peel + Stick Zipper creates an instant door on tarps and plastic sheeting and provides instant resealable access. The zipper is double sided for ease of operation from either side and workers can use two zippers to create a roll-up door.

“Federal law requires that contractors performing renovation, repair

*Trimaco’s E-Z Up Poles and Peel + Stick Zippers quickly create dust free pass-through plastic barriers for rooms up to 20 feet tall. The E-Z Up Pole Bag can carry four poles from job to job.*

and painting projects in homes, child care facilities and schools built before 1978 must be certified and trained to follow specific work practices to prevent lead contamination,” Reaves advises. “Our E-Z Up products help contractors comply.”

Trimaco also offers E-Z Up Dust Containment Door Kits for fast dust containment protection. The unique C-shape zipper allows for quick access in and out of the job site. The kit can even be reused; just reapply with E-Z Up double-sided tape.

Finally, for convenience, Trimaco offers an E-Z UP Pole Bag, which can carry up to four containment poles. This heavy-duty bag has a reinforced zipper and straps and its comfort-grip handle makes transportation easy.

CONTINUED ON PAGE 78

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The Nilfisk ATTIX 44 IC features InfiniClean automatic filtration technology to clean the filter every 15 seconds. A double valve system minimizes performance drops during the cleaning cycle.



PETERSON

powerful reversed air pulse activated every 15 seconds keeps airflow at a high level while a double-valve system minimizes performance drops during the cleaning cycle," says Dan Peterson, product manager.

"When developing this new line, it was important to limit user exposure to hazardous dust during filter changes. The ATTIX 33 and 44 feature a hatchback with angled filter position for easy access and maintenance of the filter without removing the motor head from the machine."

Another compliance feature is an auto tool function which automatically collects dust while using power tools. The feature allows power tools to control the vacuum, turning the vacuum on only when needed.

CONTINUED ON PAGE 80

exposure limit) of 50 micrograms of silica dust exposure per eight hours is the use of a true HEPA-filtered vacuum. HEPA filters should capture 99.97 percent of particles down to 0.3 microns and come with a DOP-test (Dispersed Oil Particulate) certificate ensuring that they meet the standard as advertised. A vacuum equipped with the right filter cleaning system can prolong the life of the HEPA filter as well as the vacuum itself.

"Nilfisk's new ATTIX 33 IC and 44 IC models come with InfiniClean automatic filtration technology. A

## NILFISK

Using a vacuum cleaner with proper filtration is one of the easiest ways to prevent the health hazards associated with lead, silica and other hazardous dusts. With OSHA's latest silica dust ruling and this year's September 23 deadline for building and construction to comply, it is more important than ever to meet house-keeping and regulatory standards for silica dust compliance.

One method to comply with the standard's new PEL (permissible



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Skilsaw's MEDUSAW is the first worm drive concrete saw that delivers a complete concrete cutting system with an integrated wet/dry dust management system and a GFCI that protects both the tool and its user.

## SKILSAW

Scoring concrete is a tough application both for the saw and the user which, until now, did not have an efficient solution. Users typically had to buy costly third-party attachments for their worm drive saws and it often required up to three workers to make the cuts; one using the saw, one holding a water hose or vacuum hose to collect the dust, and a third holding down a straight edge.

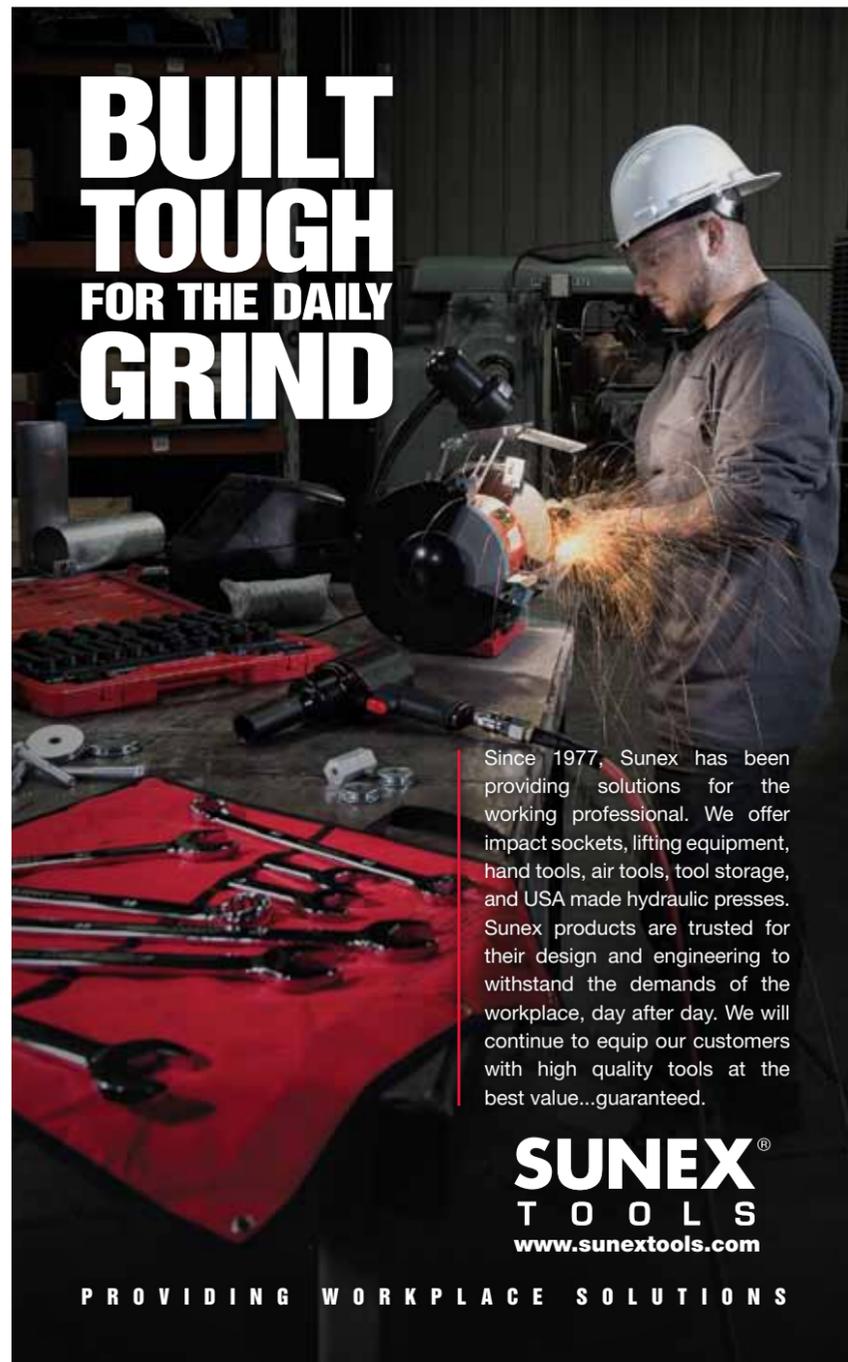
This problem led SKILSAW Power Tools to develop the MEDUSAW 7-inch Worm Drive saw for Concrete, model SPT79-00. The MEDUSAW is the first worm drive concrete saw that delivers a complete concrete cutting system with an integrated wet/dry dust management system and GFCI protection that extend the life of the tool and protect the user. The dust management system takes dust out of your way for cleaner cuts and longer tool life. Additional features allow the user to make straight, accurate cuts and consistent plunge cuts without help from additional workers.

"We take our queue from what's needed on job sites everywhere," says Gregg Mangialardi, product manager, Saws at SKILSAW. "We head out to the field to talk and work with pros about how to improve the tools they use. We develop prototypes, do field testing, make changes and test again until we have a saw that meets our legendary standards. The result is a line of saws specifically made to cut new and emerging materials that pros can rely on day after day. As construction materials continue to evolve, SKILSAW will continue to provide the pro with the best saws for cutting them. That's how we Stay True."



MANGIALARDI

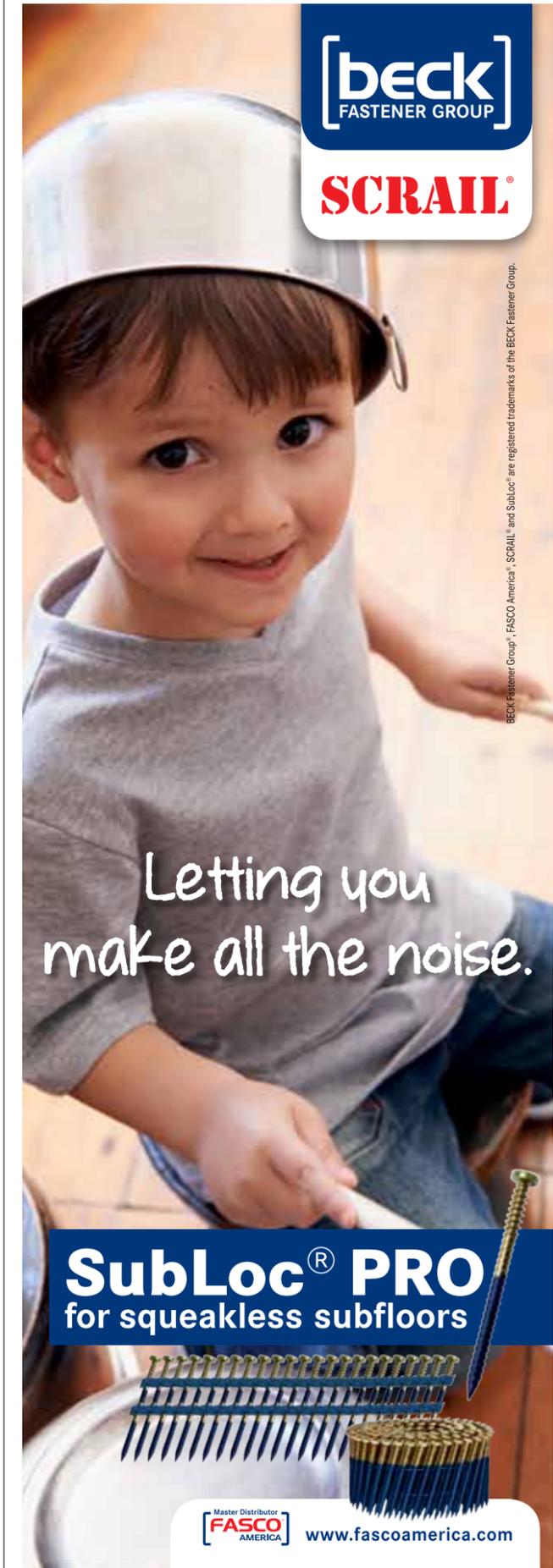
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produces consistent suction for cleaner air.

Launched in conjunction with the new Dust Extractor are 5- and 7-inch surface grinding dust shrouds, a 5-inch cutting dust shroud, SDS-Max dust extraction attachment, SDS-Max chisel boot and vacuum bits that work with the Extractor to maximize dust collection during concrete applications.

“These new accessories join our lineup of HAMMER-VAC dedicated and universal dust extractors — the industry’s most complete SDS Plus system of cordless, battery-powered dust extraction solutions,” Plowman adds.

**MINNICH MANUFACTURING**

Minnich Manufacturing, a leading manufacturer of concrete dowel pin drills, concrete vibrators and vibrator monitoring systems, highlighted its dust collection system for dowel-pin drills at World of Concrete 2017.



MINNICH

The Minnich dust collection system meets the requirements for dowel pin drills found in Table 1 of OSHA’s final respirable crystalline silica standard when used with an appropriate filter. Filters supplied with the Minnich dust collection system comply with the OSHA filter efficiency requirement. Construction employers have until Sept. 23, 2017, to comply with the final silica rule.

Featuring Venturi-style suction and manual or automatic purge control, the pneumatic dust collector removes dust from the air as the operator drills. The canister-style unit can be retrofitted to any Minnich on-grade, on-slab, machine-mounted or utility drill model. It can also be adapted to fit other dowel pin drill makes and models.

Minnich’s new dust collectors for its concrete dowel pin drills feature onboard Venturi-style suction canisters that meet the new OSHA Table 1 guidelines which take effect September 23.

CONTINUED ON PAGE 82



“Just recently, we announced the largest expansion of our Dust Extraction System to date, all completely compliant with the new OSHA regulation. With the launch of an 8-gallon Dust Extractor and accessories, our full lineup of rotary hammers and grinders are compliant through either Table 1 or Objective Data Requirements.”

Milwaukee’s new OSHA-compliant 8-gallon Dust Extractor, model 8960-20, delivers 148 cfm and 92 inches of water lift at just 69 dB. It has a 13-foot anti-static hose and a 24-foot cord.

The 8-gallon Dust Extractor provides users with an OSHA-compliant solution for the regulation on respirable crystalline silica dust (29 CFR 1926.1153). An automatic filter cleaning mechanism activates on the main filter to help maintain consistent airflow and suction at 148 cfm in tough dust-producing applications.

The extractor’s unique two-step filtration system includes a 99.97-percent-efficient HEPA filter as the final step of filtration after the main filter, leading to cleaner air, increased lifetime of the HEPA filter and reduced service cost over time. These features lead to a product that

**MILWAUKEE TOOL**

The new OSHA regulation on respirable crystalline silica dust has helped to drive much of the recent momentum in dust collection/vacuum trends.

“Because Milwaukee Tool provides a full range of corded and cordless grinders for all concrete cutting and surface prepping applications, and offers a complete lineup of rotary hammer solutions, it is crucial that we provide our users the ability to work more safely when using these tools” says Andrew Plowman, vice president of product management.



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The dust collection system requires 40 scfm for hydraulically powered drills and 50 scfm for pneumatically powered units, and 60 to 110 psi. Each canister can accommodate up to two drills and offers a 60-square-meter filter area. The system comes with drill rod guide collection boots, a 5-gallon pail-type hopper and up to 20 feet of vacuum hose per drill.

According to the Table 1 guides on dowel-pin drilling, workers must also use a respirator with an assigned protection factor (APF) of at least 10. A HEPA-filtered vacuum must be used when cleaning holes.

"The final silica rule is a complex challenge for contractors. We're here to help," said Rob Minnich, vice president of marketing at Minnich

Manufacturing. "The Minnich dust collection solution can help simplify the compliance process."

**MAKITA USA**

Makita's expanding system of corded and cordless dust extraction solutions includes four fully OSHA silica dust compliant backpacks and canister vacuums.

"For users seeking simplicity in concrete drilling applications, Makita offers a cordless solution with a built-on dust extractor: the 18V LXT 1-inch rotary hammer has a HEPA dust extractor attachment with an efficient brushless motor that powers both the tool and the separate vacuum motor with a single 18V battery," says David Fernandez,



FERNANDEZ

The 18V X2 (36V) Brushless 1/2-gallon HEPA Filter Backpack Dry Dust Extractor is ideal for concrete drilling when used as part of a dust extraction system.



product manager, Commercial Products, Makita USA. "The XRH011TX is performance (objective data) option compliant for the OSHA Silica Regulation, 29CFR 1926.1153, with produced objective data test results."

For higher capacity and performance without sacrificing cordless convenience or mobility, the 18V X2 (36V) model XCV05ZX LXT Brushless

CONTINUED ON PAGE 84

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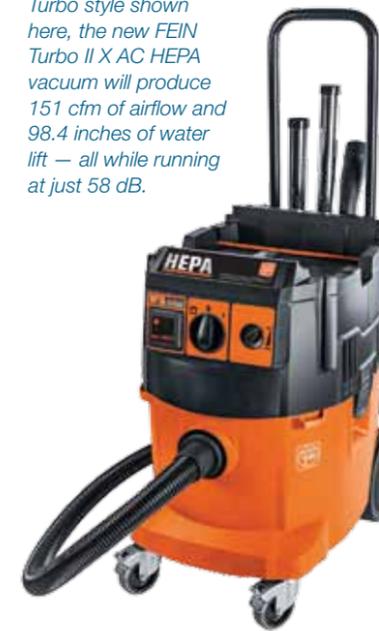
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Based on the existing Turbo style shown here, the new FEIN Turbo II X AC HEPA vacuum will produce 151 cfm of airflow and 98.4 inches of water lift — all while running at just 58 dB.



FEIN Turbo II models also feature fully automatic filter cleaning (AC) for uninterrupted work thanks to the longer service life of the flat pleated PES filter. An autostart outlet with power-on delay prevents current spikes and electronic shutdown ensures outstanding wet vacuuming performance. Ergonomic features including push handles and case and accessory fastening areas make these models easy to move from job to job. Tool cases from various systems can be secured on the vacuum lid. **CS**

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“The fourth solution is the powerful 12-gallon Xtract Vac Wet/Dry Dust Extractor,” Fernandez says. “The VC4710 has the highest level of suction power in its category (12-amp motor with on-board power outlet). The HEPA-certified filter is offered as an optional accessory which captures 99.97 percent of dust particles 0.3 microns and larger, and an OSHA-compliant automatic filter cleaning mechanism.”

**FEIN TOOLS**

With new laws like the EPA’s Lead Renovation, Repair and Painting (RRP) Rule and the coming silica guidelines, the industry needs better HEPA vacuum systems. The newest ruling is focused on the containment of silica dust. A vacuum system has to contain very small particles and at the same time shake the dust from the filter to clear it and be able to continue to operate without stopping the work progress.

Typically, the vacuum is used in conjunction with a tool hood or, in some systems, with hollow core bits that remove dust as they drill a hole. The cost of upgrading vacuum and dust collection accessory systems can be far outweighed by possible large fines if users do not comply.

“FEIN’s existing range of wet/dry and HEPA vacuums have proven themselves on job sites all over the world,” states Richard Tisza, marketing product manager and training coordinator for FEIN. “Soon to be



TISZA

released, the FEIN Turbo II X AC HEPA vacuum system will be independently tested to comply with the new silica law. This new system is based on the current Turbo II design. This powerful model will produce 151 cfm of airflow and deliver 98.4 inches of static water lift. In addition, it will run at a near whisper-quiet 58 dB.



Makita’s 12-gallon model VC4710 Xtract Vac Wet/Dry Dust Extractor claims the highest level of suction power in its category — 135 cfm and 92 inches of water lift. This feature-packed unit runs at just 59 dB.

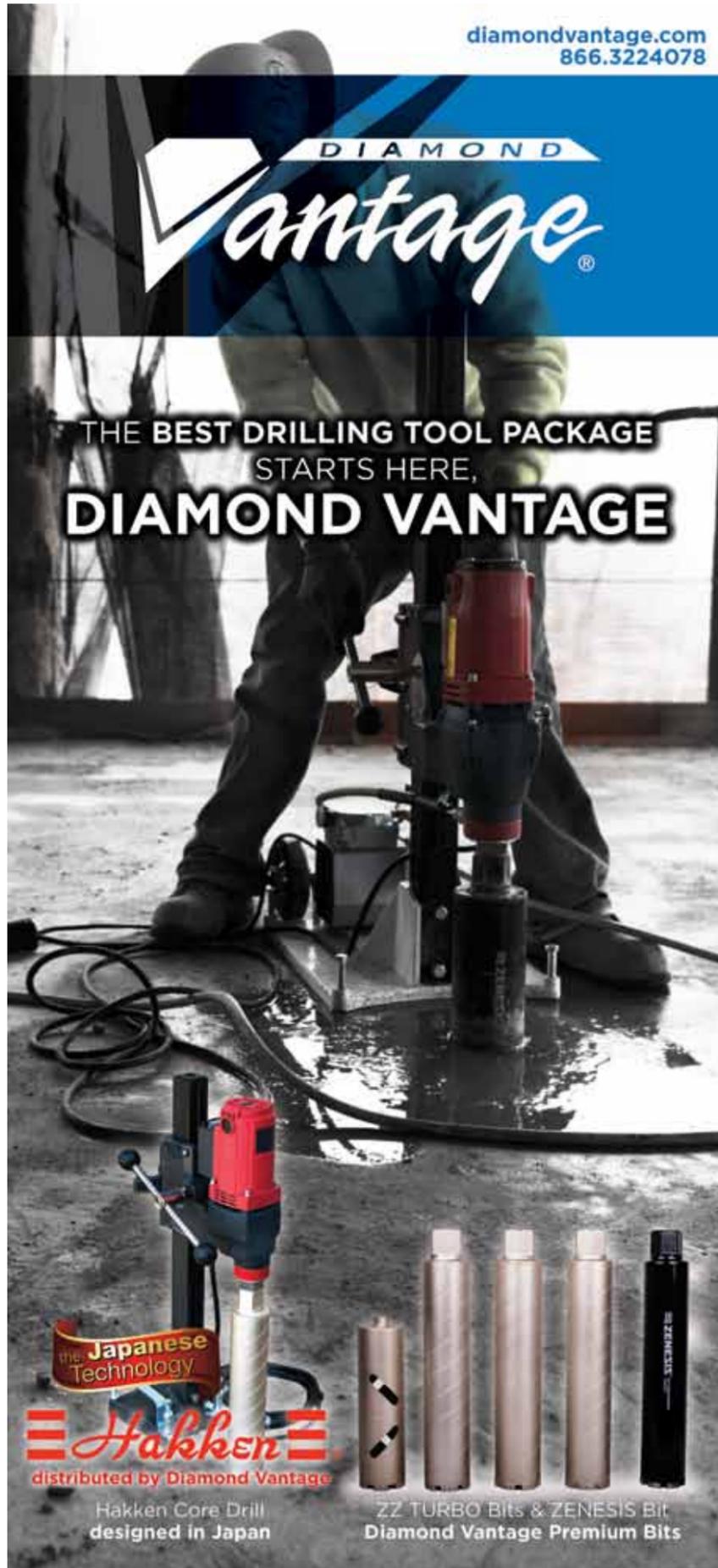
1/2-gallon HEPA Filter Backpack Dry Dust Extractor is powered by two 18V batteries and effectively bridges the gap between limited-capacity on-board dust extraction systems and the larger capacity and limited portability of wheeled canister vacuums. It is ideal for concrete drilling when used as part of a dust extraction system.

A third solution provides added capacity and more application versatility while maintaining cordless convenience and mobility. The 18V X2 (36V) LXT Cordless/Corded 2.1-gallon Dry Dust Extractor/Vacuum is powered by two 18V batteries for maximum cordless performance and also offers corded operation. The XCV04Z has a three-stage HEPA filtration system that captures 99.97 percent of dust particles and a filter cleaning mechanism as required by OSHA Rule 1926.1153.

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