

# VACUUMS & DUST COLLECTION

## AUTO FEATURES IMPROVE WORKER PRODUCTIVITY AND HEALTH

**D**ust collection on the job site is here to stay and manufacturers are working furiously to make vacuum-and-tool dust collection systems more integrated, efficient and convenient with features like auto filter cleaning and tool-triggered auto start. These top brands are leading the way to cleaner and healthier job sites.

### FESTOOL USA

Dust control is an integral part of the Festool system and design philosophy. Festool's dust collection lineup ranges from the 2.6-gallon CT Mini HEPA vac to the 12.7-gallon CT 48 HEPA vac. Festool also offers a non-HEPA alternative, the model CT36 AC AutoClean, which features a 9.6-gallon capacity and automatic filter cleaning.

"The 6.9-gallon CT 26 HEPA Dust Extractor occupies the sweet spot in the middle of this professional lineup," observes Festool USA's Michael Clark. "The CT 26 is equipped with tool-triggered auto start functionality so that when you plug your tool into the supplied outlet socket, the vacuum cycles with the tool. This delivers more efficient dust extraction with less noise and energy consumption versus a constant-on unit. Variable suction force allows you to regulate the suction based on your tasks; a detail sander may not need the full 137 cfm of this unit, but a router may require it.

This unit comes standard with a new self-cleaning bag which prevents suction-reducing dust particles from caking inside the bag. The low-profile, flat-top design doubles as a tool rest, an integrated hose garage and docking station that accepts optional Festool Systemainers for easy transport and storage. The low center of gravity, integrated center handle and extra-large wheels enable it to navigate rough terrain without tipping.



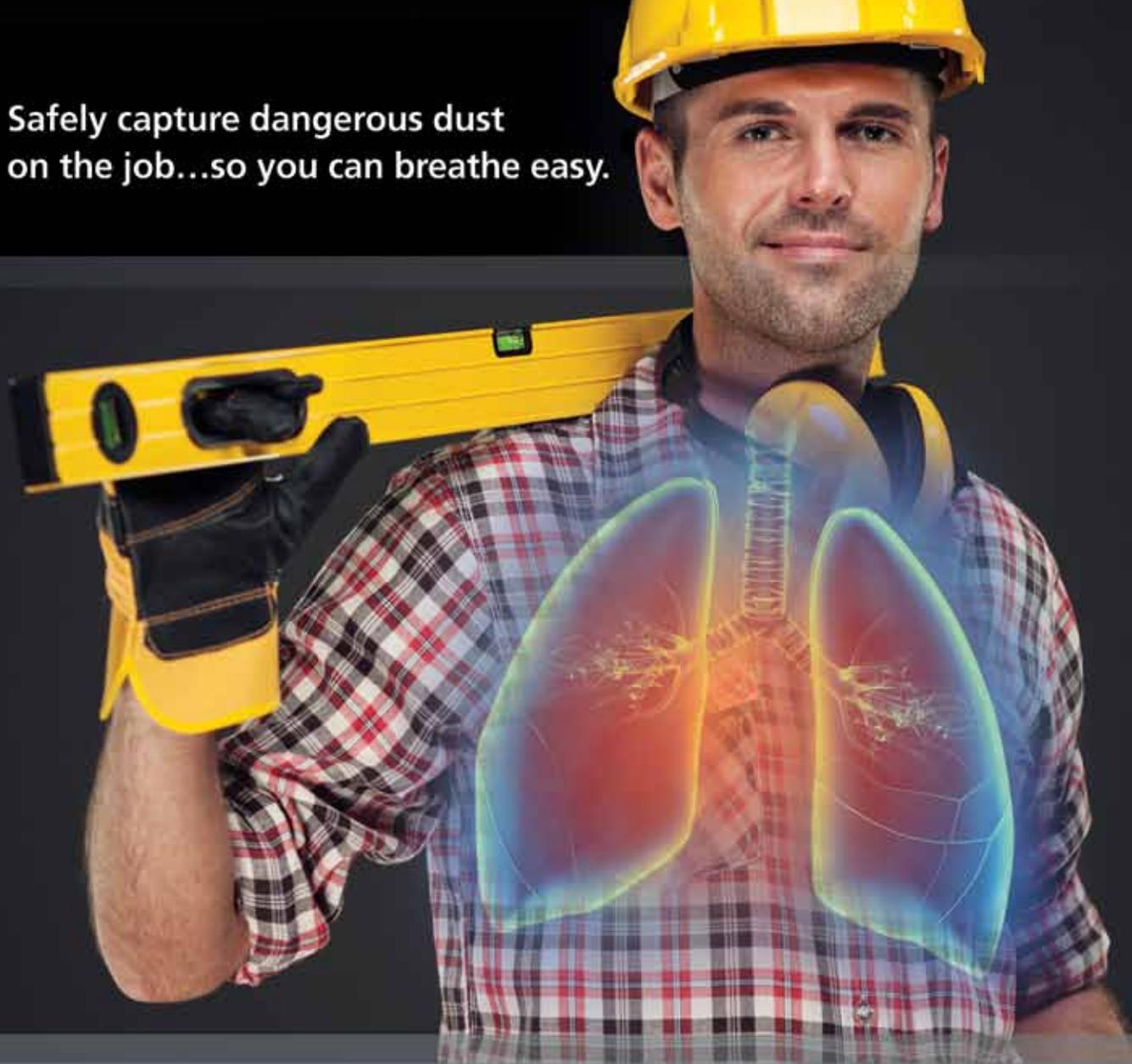
*Festool's 6.9-gallon model CT 26 Dust Extractor produces 137 cfm of suction, has tool-triggered auto-start and a flat-top docking station for transporting Festool Systemainers.*

A parking brake can even be locked to prevent unintentional roll off or drifting. The supplied 11 1/2-foot anti-static (AS) hose is long enough for power tool and general work site clean up tasks.

For wet (water) clean up tasks, the CT will shut off automatically when full thanks to Level Stop technology. With an industrial design for heavy use the CT is equipped with over 24 feet of 12 gauge cord.

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The Bosch VAC090A nine-gallon vacuum offers semi-automatic or automatic onboard filter cleaning options for dust-heavy applications such as tuck pointing and concrete drilling and surfacing.

**BOSCH**

As the benchmarks for job site dust and dirt collection standards continue to grow, Bosch is confident that users will find the right portable solution in its lineup of nine- and 14-gallon vacuums.

“The VAC090S and VAC090A nine-gallon vacuums and VAC140S and VAC140A 14-gallon vacuums not only improve dust extraction performance with best-in-class cfm and suction power, they also decrease the loss of suction by offering two options of on-board filter cleaning: semi-

automatic and automatic,” states Jim Stevens, product manager. “These features are especially important in applications that require premium dust extraction such as tuck pointing, concrete surfacing, concrete drilling, cutting and chipping concrete, and collecting a diversity of dust particles in stationary workshops.”

An unclogged filter is critical for optimal vacuum performance and dust extraction efficiency, and Bosch’s offering of integrated automatic and semi-automatic filter cleaning systems makes it easier for users to ensure that their devices are working effectively. These features also increase job site productivity by eliminating the need for filters to be tediously cleaned by hand.

Outfitted with an automatic filter cleaning mechanism, the VAC090A and VAC140A self-clean the flat pleated filter with reverse airflow every 15 seconds during operation without compromising suction or performance.

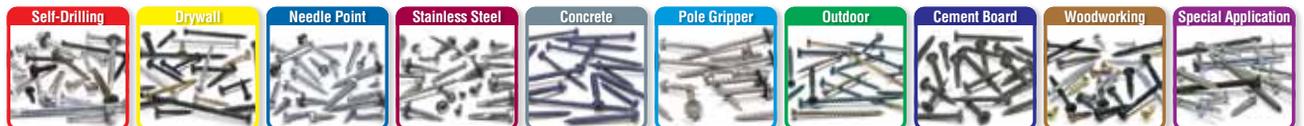
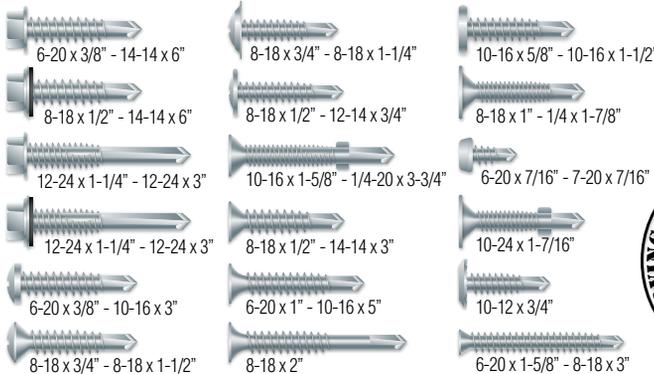
The VAC090S and VAC140S use a similar airflow cleaning process and include a module on the hose that allows the user to cut off suction and activate the filter cleaning

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with the push of a button. A power tool activation feature with power broker prevents blown circuits available in automatic filter cleaning models.

**METABO**

“The EPA RRP rule and the proposed OSHA Silica standard call for the use of a HEPA vacuum when working with power tools that create dust,” explains Terry Tuerk, senior product manager for Metabo. “When large amounts of dust are created in tuck pointing or concrete grinding applications, HEPA filters tend to clog faster and require more frequent user maintenance to clean than standard filters.”



TUERK

The new ASR 35 ACP nine-gallon Hepa vacuum greatly reduces the need for manual filter cleaning with advanced electronic pressure monitoring and filter cleaning. The ASR 35 ACP HEPA offers automatic electromagnetic filter cleaning that requires no user interface. Its two microfiber polyester HEPA filters have extreme longevity.

Electronics measure the pressure difference between



*The nine-gallon, 10.2-amp Metabo ASR 35 ACP Hepa vacuum features automatic electro-magnetic filter cleaning for uniform suction during filter cleaning and extended filter life.*



the suction side and the exhaust side of the filters during operation, and when a pressure drop is realized, the electromagnet filter cleaning engages, shaking first one filter, then the other. Near constant suction is maintained over the life of the filters, with no drop of suction during the cleaning cycle.

The ASR 35 ACP's 10.2-amp motor produces 130 cfm and 248 mBar. Large rear castors and lockable front swivel castors ease transportation around the job site.

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## MAKITA

Makita's expanding dust containment system now offers two new solutions for reducing concrete dust during demolition and tuck pointing applications. The model 197172-1 1 1/8-inch Hex Shank Dust Extracting Attachment attaches directly to a 1 1/8-inch demolition bit, one to four inches from the work surface. When used with the Xtract Vac or other job site vacuum, the attachment has a large opening and is engineered for maximum dust extraction, and includes convenient hose holders to keep the attachment out of the way during use.



"The new five-inch Dust Extracting Tuck Point Guard is an ideal solution for reducing dust," comments Brandon Stover, accessories product manager, Makita USA. "The cover features adjustable depth stops for more efficient work, with a viewing window and guide for improved visibility. The Tuck Point Guard can also be paired with the model A-96017 Makita five-inch Dual Sandwich tuck point wheel."

The new Tuck Point Guard is also available in two new kits that include Makita angle grinders with next-generation SJS II Super Joint System for improved gear and motor protection and less vibration. Kits include the model GA5040X1 five-inch SJS II angle grinder and the GA5042CX1 five-inch SJS II High Power 13-amp angle grinder. Used together, the grinder, guard and vacuum deliver a total solution with efficient dust extraction, improved gear protection and less vibration.

"The 12-gallon Xtract Vac wet/dry vacuum remains at the center of the Makita dust extraction system," Stover continues. "The VC4710 has a powerful 92 inches of water lift, lower noise at 59 dB(A), less weight at 27 pounds, HEPA filter compatibility and more. The filter blow-back process is set at timed intervals and is achieved with a rocker valve which isolates reverse air flow through each filter separately. The result is a more efficient filter cleaning system that does not interrupt vacuum suction and is engineered to extend filter life by up to 50 percent."

Makita's expanding dust extraction system is built around the 12 gallon Xtract Vac, and now includes a new Dust Extracting Attachment for use with 1 1/8-inch Hex Shanks to help reduce dust created from demolition applications.

## DYNABRADE

Dynabrade, Inc.'s new Raptor Vac portable vacuum systems are designed to aggressively capture dust and debris for a cleaner, safer workplace. These top-quality vacuums may be utilized in a wide variety of industries such as cabinet shops, counter top manufacturers and fiberglass fabricators. The product line includes electric and pneumatic vacuums, all with efficient HEPA filters. Offered in various configurations, Raptor Vac vacuums meet all North American and international safety standards.



"M-Class vacuums are suitable for general source capture and dry cleanup, ideal for use on non-metallic surfaces, such as woods and plastics," explains Gary Lojaco, Dynabrade manager of marketing communications. "Models are available with non-conductive polycarbonate canister, or conductive stainless steel canister."

M-Class vacuums may also be connected to the optional Dynabrade vacuum cart which offers convenient storage area for tools, accessories and abrasives.

"Division 2 vacuums are designed for workplaces where hazardous dust is not normally suspended in an ignitable concentration, but may accidentally exist," Lojaco continues. "These vacuums may be used in dry industrial settings with potentially combustible dusts, such as woods and plastics. They include a stainless steel canister and are certified as explosion-proof."

"Division 1 Vacuums are for dry-only collection where ignitable quantities of dust normally are or may be in suspension, or conductive dust may be present. Certified as explosion-proof and dust ignition-proof, they may be used for vacuuming exotic and potentially hazardous metals such as aluminum, magnesium and titanium."

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Dynabrade M-Class vacuum systems are available with nonconductive polycarbonate or conductive stainless steel canisters, and are designed for general use dry cleanup.





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- Tools are warranted against defects in material and workmanship.
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With the added Immersion Separator, Division 1 vacuums are guaranteed for the safe recovery of combustible or conductive dusts, by rendering hazardous material inert, using mineral oil as a neutralizing liquid. Certified as explosion-proof and dust ignition-proof, they may be used for vacuuming exotic and potentially hazardous metals such as aluminum, magnesium, titanium and other commercial alloys.

## RIDGID

In April 2015, RIDGID launched a new line of professional industrial wet/dry vacs engineered specifically for the Professional Industrial channel. This line includes 14 models, 12 of which are currently available. Two more are coming soon.

“One item to note in reference to dust collection, is the new RIDGID Smart Pulse RV3410,” says Christopher Burton, global director, brand management, Ridge Tool Company. “This is a large-capacity wet/dry vac engineered specifically for fine dust projects. The 14-gallon unit is designed with two filters and an integrated sensor.”



BURTON

The sensor continuously monitors suction efficiency. When the sensor detects a loss of efficiency, the vac begins an alternating pulsing cycle, back flushing air through the filter. The process cleans the filter automatically yet only when needed, providing uninterrupted performance. This feature allows the user to perform their cleaning task without having to deal with loss of performance or spend time shaking out a filter.



One of 14 all new models from RIDGID, the model 1650RV Motor-on-Bottom wet-dry vacuum, has a low center of gravity, a large-object trap door and enables canister emptying without having to lift out the motor.

“Another trend in vacuum systems is exemplified in the new RIDGID model 1650RV Motor-on-Bottom wet/dry vac,” Burton continues. “This unit features advanced technology new to the industry, which places the motor on the bottom of the drum instead of the top. This revolutionary configuration provides an easy-to-empty benefit — simply detach the drum from the power-sled base to empty, there’s no heavy motor head involved.”

This vac also features a lower center of gravity for increased stability in rough terrain job sites and the MOB (Motor-on-Bottom) also features an integrated foot activated power switch, which provides easy access and hands-free operation. Even with 24 percent more power than any previous RIDGID wet/dry vac, Scroll Noise Reduction technology provides quiet operation.

The new RIDGID Professional Industrial line of wet/dry vacs consists of vacuums ranging from four to 16 gallons with various features and distinctions throughout the line.

## DREMEL

Dremel aims to meet customers’ needs for orderly workspaces and improve efficiency by “Cutting-Out the Clean-Up.” Its latest innovation is the Dremel VRT1, a vacuum-powered rotary tool that cleans debris while in operation. The VRT1 transforms a shop vacuum into a versatile, turbine-powered rotary tool in an effort to improve workspace cleanliness and keep airborne dust to a minimum. As the only dustless rotary tool, it is designed to “cut-out the clean-up” involved with dusty projects in drywall, wood, glass, ceramic and a variety of similar dust-producing materials.

“Consumers were asking for a tool solution that helped them keep their workspaces and homes clean as they worked,” said Ed Pchola, product director for Dremel.

CONTINUED ON PAGE 74

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“The Dremel VRT1 does exactly that with its vacuum-rotary tool combo which increases project efficiency — there’s no need to stop to clean-up debris because it is happening while using the tool.”

With power similar to a 4.8-volt cordless rotary tool, the VRT1 can be used with a wet/dry vacuum with 2.5 hp or greater. Dual fans are activated when the airflow gets pulled into the shop vacuum through dust intake ports. This creates power and rotation to drive the accessory, while also allowing dust through and into the shop vacuum. The tool attaches with 1 1/4-inch shop vacuum hoses and adapters and can be used with the user’s favorite Dremel sanding, polishing, carving, drilling and engraving accessories.

The Dremel VRT1 also features speed control for greater tool versatility and adjustment of accessory speed and an on/off control that lets the user stop the tool but keep the vacuum running.

### NILFISK

“The construction industry faces impending OSHA rule-making on occupational exposure to crystalline silica, which will replace outdated exposure limits and compliance requirements,” observes Daniel Peterson, Nilfisk industrial vacuums product manager.

Workers can be exposed to silica when cutting, sawing, grinding, drilling and crushing materials such as stone, rock, concrete, brick, block, mortar and industrial sand. When inhaled, the fine silica dust can become embedded in workers’ lungs, where it causes silicosis, lung cancer and other health issues.

With silicosis, silica particles lodge in the lung tissue, causing scarring. The lungs become less flexible, making

*The vacuum-powered VRT-1 rotary tool uses the suction power of a shop vac to spin its turbine and remove tool-generated dust at the same time to keep workpieces and spaces clean and tidy.*

it difficult to breathe and do hard work. Once silicosis develops, the damage is permanent. There are an estimated 1,600 new cases of silicosis annually. OSHA estimates that the proposed rule will save nearly 700 lives and prevent 1,600 new cases of silicosis per year.

Builders and contractors can reduce the risk of exposure by using the latest housekeeping equipment and procedures to remove the dangerous dust from floors, walls and overhead areas.

“OSHA recommends HEPA-filtered vacuums with at least 80 CFM and equipped with a bag to contain all debris,” Peterson states. “The best vacuums have self-cleaning filters and an auto-tool start option to capture silica dust at the source. Source capture and local exhaust ventilation (LEV) systems can reduce respirable crystalline silica dust exposure by five to 20 times.”

“The Nilfisk-ALTO ATTIX 50XC with auto-tool start is a powerful, industrial-strength wet/dry vacuum that can handle the job. The vacuum uses XtremeClean automatic filter cleaning technology that cleans the filter every 20 seconds, saving the usual downtime taken to stop the vacuum and clean the filter manually. A continually clean filter means that the vacuum’s suction always operates at peak performance. In addition, filters last longer and workers are protected from silica dust blowing back into the air.” **CS**

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