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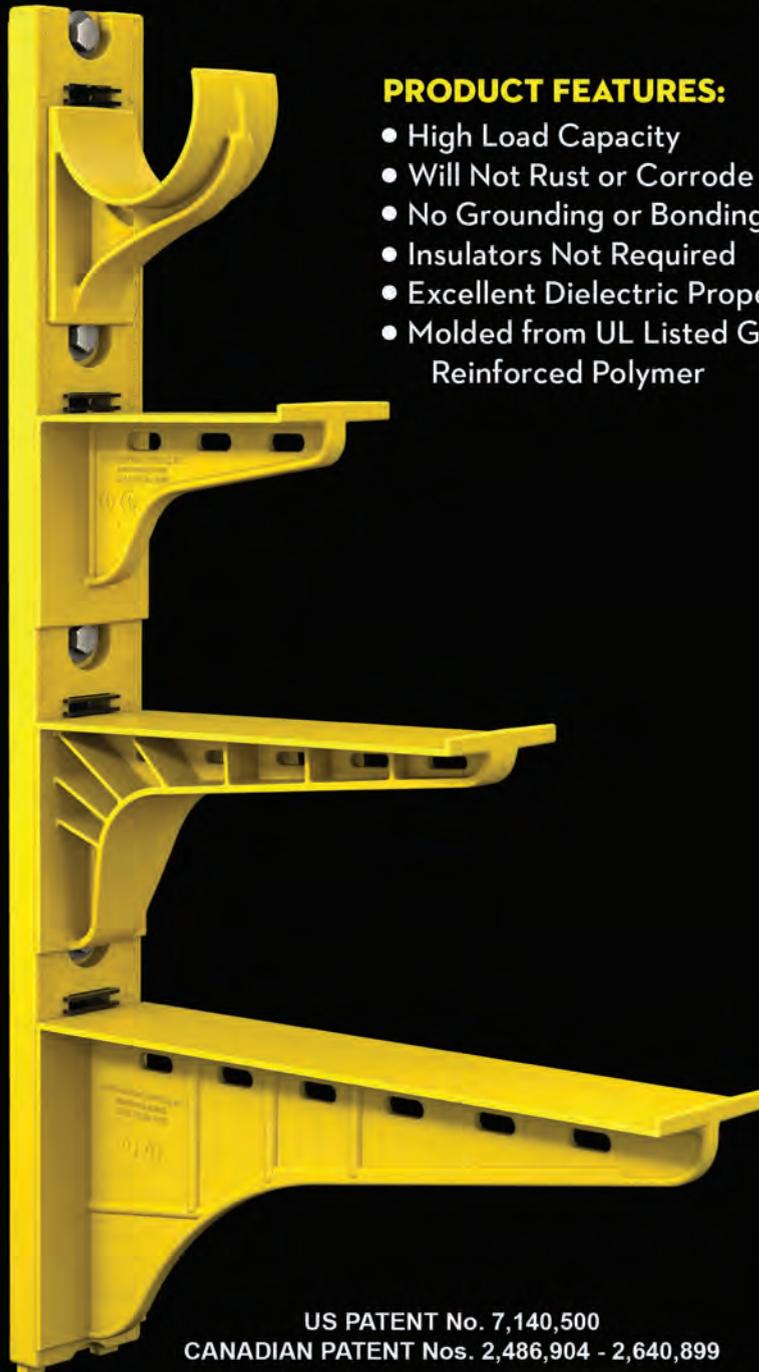
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HDL Arm Lock shown with
RA04 Arm and CR36-B Stanchion



3HDS - 3" throat saddle shown with
a cable secured by cable ties.



RA08 - 8" arm shown with three
cables secured by cable ties.

US PATENT No. 7,140,500
CANADIAN PATENT Nos. 2,486,904 - 2,640,899

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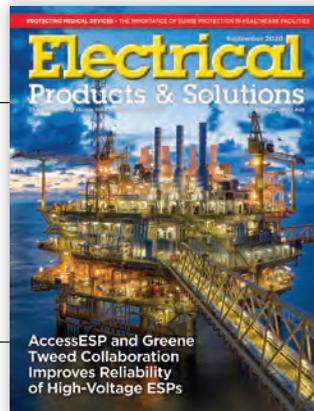
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Image courtesy of AccessESP and Greene Tweed



AccessESP and Greene Tweed Collaboration Improves Reliability of High-Voltage ESPs



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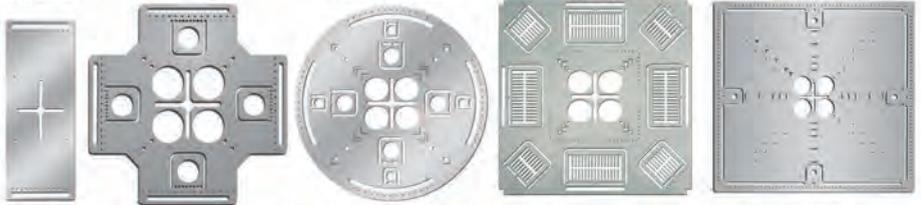
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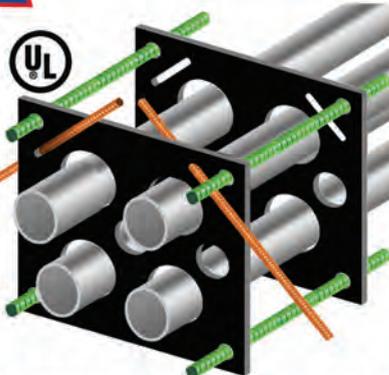


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Generator InterLock Technologies, LLC

Generator InterLock Technologies, LLC, is a small-based company that manufactures and sells its products across the country. The company was founded after Hurricane Isabel hit the east coast in 2003. The product was developed to meet the need for a safe way to use portable generators to power homes in the event of power loss.

The initial inspiration for the product came from a persistent friend of an electrician working for Master Electrical Services. As electrical contractors, they had seen various unsafe and illegal methods that people had used to try to power their houses with their portable generators. The electrician set out to develop a product that would meet National Electrical Code requirements and at the same time be cost effective and convenient for the homeowner. From that original inspiration came a new company: Generator Interlock Technologies or GIT.

The Interlock Kit is a simple safety product that locks out the Main breaker in the existing home panel and allows for the portable generator to power the home through a back feed generator breaker. While many electrical inspectors liked the product; they all agreed that the product would have to be listed to UL standards. After thousands of dollars in fees, rigorous tests, a year of changes and modifications, the Interlock Kit was finally approved for production to be used with panels listed under UL Standard 67.

The company started fulfilling orders in early 2005, using Master Electrical Services as its basis for customer awareness.

Starting with a few kits that fit the most recent Square-D and Cutler Hammer panels, the offerings grew to over 30 different models in less than one year. Generator Interlock Technologies now has kits for panels from 30 years ago to the most current and they continue to add new kits to meet their customer's needs. While contractors in Florida and the North East are the biggest customers, Interlock Kits have been sent throughout the United States and parts of Canada. Whether the power loss is due to coastal hurricanes or from crippling ice storms in the northern, GIT has a kit that will allow customers to keep the power on in their homes.

The Interlock Kits are designed to be installed by licensed electricians and are cost effective for both the customer and the installer. Other products on the market such as generator sub-panels and transfer switches require extensive rewiring of the home panel, often taking the electrical contractor 6 to 8 hours to install. With the Interlock Kit, a qualified electrician can install a complete system in 2 hours or less by simply mounting the correct kit to the face of the panel and wiring a gen-



erator convenience outlet to a breaker installed in the panel.

To use their portable generator, a homeowner plugs an extension cord from their generator to the new generator convenience outlet. He then starts the generator, turns off the main breaker, slides the Interlock Kit, turns on the generator breaker and selects the circuits for use up to the capacity of the generator.

Generator Interlock Technologies' Kit is a defining safety product that has been recognized as an Innovation Award Winner by *Electrical Contracting Products* magazine and one of the Top Products by *Electrical Products and Solutions* magazine.

Generator Interlock Technologies, LLC, has taken a problem of safety and convenience and developed a system to keep danger and expenses to a minimum. Starting with an idea of helping a friend in need, to helping thousands across the country, GIT continues to grow due to its commitment to deliver a quality product. Visit www.interlockkit.com for a complete list of products and details. □

With the Interlock Kit, a qualified electrician can install a complete system in 2 hours or less by simply mounting the correct kit to the face of the panel and wiring a generator convenience outlet to a breaker installed in the panel.

INTERLOCKKIT

A Generator InterLock Technologies Product



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**Quickly & Safely Connect
Portable and Standby Generators to
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- Our kits allow you to safely and legally use generators to feed the existing panel, permitting quick and convenient use of all original circuits.
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Protect Yourself

Miller Safety Consultants — A Leader in Arc Flash Protection

Vince Miller started Miller Safety Consultants, a veteran owned business in 1999. The goal of the business was to provide cost effective safety consulting, employee training such as: confined space entry, fall protection, electrical safety and provide sales of electrical shock and flash protective equipment and fall protection equipment to businesses in the Washington DC area.

Reliance Industries provided fall protection products and much of the sales and training was on behalf of the supplier. In 2000, the owner decided to retire from his business, and Vince decided to discontinue the fall protection line of his business and concentrate more in the electrical training and products.

Vince had been a distributor for Certified Insulated Products (CIP), a manufacturer of electrical insulated tools and electrical arc flash clothing manufactured by Otex in Rochester, New York. As a distributor, Vince provided sales through his internet website and much through relationships with electrical contractors. His training was a classroom environment and was provided directly to customers but he also taught as a sub-contractor for other safety consulting companies and the

Chesapeake Safety Council in Baltimore, Maryland. In 2005, Vince partnered with Vivid Learning Systems in Cascades, Washington to provide on-line training in safe work practices.

Training in electrical safe work practices is still provided locally in the Washington DC area and as a partner with an electrical engineering firm and online. The training is based on the Occupational Health and Safety Administration (OSHA) standards and the National Fire Protection Association (NFPA) 70E standard.

Miller Safety Consultants is now a distributor for Cementex USA, Burlington, New Jersey, for insulated tools and equipment and clothing from OTEX Protective, Rochester, New York.

The majority of his sales of products are from the web-based store. Cementex is

naturally known for their quality equipment. Otex Protective is becoming more known for their quality clothing. For years, they have manufactured their products under other provider labels. Vince chose to not create his clothing line, but to sell the manufacturer product.

Vince has worked with many electrical company employees to fine-tune the clothing to be more comfortable for the user. Working closely with the manufacturer, they have made slight changes in how the cloth pattern was modified to meet final product. An example is the lightweight 40 Calorie vented hood offered by Otex.

The material is of the latest technology. The vented assembly is constructed for balance on the back of the hardhat and the airflow is 27 CFM to prevent fogging of the face shield and provide cooling to the worker. It took over a year to develop the product with the user prior to having the hood “flash tested”. This product is now standard issue with many electrical contractors.

Being a small business and having quality providers has resulted in satisfied customers for Miller Safety Consultants. Being a direct supplier for OTEX Protective, another small business means customized customer needs can be met. □

*For more information, visit
Miller Safety Consultants at:
www.electricalsafety.com, email
Vince at: sales@mlsafety.com
or give him a call at (703)367-0404.*



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AccessESP and Greene Tweed Collaboration Improves Reliability of High-Voltage ESPs

Development of an advanced “power delivery” system to eliminate conventional ESP electrical connectors and cable performance weaknesses.

AccessESP, a Houston-based provider of rigless electrical submersible pump (ESP) conveyance solutions for the global oil industry, developed a retrieval technology that reduces costs by enabling quick and easy ESP installation and retrieval using slickline, wireline, or coiled tubing. The system eliminates the need for a workover rig to pull and reinstall an ESP, lowering intervention costs and minimizing lost production.

(CONTINUED ON PAGE 10)



AccessESP's unique solution is based on technologies with long-standing use in oilfields and other industries. The company's key innovation has been to integrate these proven technologies into a radically simplified, rigless conveyance solution, differentiated by using a proprietary, high power density, high efficiency, permanent magnet motor.

The Challenge

AccessESP's Reliability Management initiative demanded the development of a new advanced "power delivery" system to eliminate conventional ESP electrical connectors and cable performance weaknesses.

As the provider of the most effective solution in the market, AccessESP permanent magnet motors are capable of operating from low horsepower up to 1,300 hp, necessitating the engineering of a robust, customized, bulkhead connector system rated up to 8.6 kV phase-phase, and a continuous operating temperature of up to 400°F (204°C).

Addressing AccessESP's demanding voltage creep requirements, as well as their high-temperature and high-pressure requirements, meant forsaking a typical connector design that used metal load washers. As a conductive material, metal could introduce a pathway to voltage

breakdown. To improve reliability, AccessESP required a thermoplastic load washer that could provide the mechanical support traditionally expected from a metal washer.

Given the customer's highly specific material and technology needs and their

desire for a global company with a local presence to foster a collaborative and responsive relationship, AccessESP contacted Greene, Tweed.

The Solution

After reviewing the application requirements and understanding AccessESP's concerns regarding voltage and creep distance, Greene, Tweed proposed a Seal-Connect® solution for the connector assembly, using a combination of its high-performance materials, including Arlon® 1000, Arlon® 3000 XT, and Chemraz® 629.

Arlon® 1000, Greene Tweed's non-filled PEEK material, a market leader for its combination of mechanical, thermal, chemical, and electrical properties, was chosen for the body of the electrical connector. Chemraz® 629, a perfluoroelastomer, was recommended for its high-temperature and electrical insulative properties for the seal between the bulkhead and contact block interface.

The company recommended Arlon® 3000 XT, Greene Tweed's exclusive, non-filled, cross-linked PEEK, as a solution to address AccessESP's concerns regarding voltage creep and tracking distance. Arlon® 3000 XT, patented by Greene, Tweed, provides (CONTINUED ON PAGE 12)



Arlon® 1000



Arlon® 3000 XT

Chemraz® 629



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Arlon® 3000 XT's best-in-class combination of electrical and mechanical properties provided AccessESP with a connector that demonstrated significantly improved performance over existing PEEK and PEK materials in an over-molded solution.

improved volume resistivity 30 times that of PEK at 400°F (204°C) and dielectric strength, measured at 730 V/mil in an ASTM D149 testing.

In addition, Arlon® 3000 XT has 1.5 to 6 times higher mechanical properties compared to PEEK in tensile, compressive, flexural, and shear tests at a test range of 392°F to 500°F (200°C to 260°C), which enabled the company to design a load washer offering the support typically provided by a metal element. Arlon® 3000 XT was also used for insulator sleeves on the bulkhead connector.

The Results

Arlon® 3000 XT's best-in-class combination of electrical and mechanical

properties provided AccessESP with a connector that demonstrated significantly improved performance over existing PEEK and PEK materials in an over-molded solution.

"Greene, Tweed is pleased to partner with AccessESP engineering," said Ericka Richardson, Sales Representative. "Our collaboration enabled us to share critical information that helped expedite the successful development of this innovative, next-generation product."

Greene, Tweed's Seal-Connect® solution passed all acceptance tests under IEC 60502-1 and API 11S6 standards for a 5-kV rated connector. Furthermore, the use of Arlon® 3000 XT lengthened the creepage distance be-

tween the pins, enabling the connector to pass the 5-minute, 13-kV AC test at 300°F (149°C).

"We continue to be pleased with Greene, Tweed's proposed Seal-Connect® solution for the connector assembly," said David Malone, AccessESP CEO. "This connector provided us with the required performance in order to guarantee a long and safe life with extremely high levels of reliability."

This agile client/customer collaboration, along with Greene, Tweed's proprietary materials portfolio and engineering and design expertise, provided AccessESP a customized connector solution that improved the performance of their innovative ESP system. □

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Protecting Medical Devices

The Importance of Surge Protection in Healthcare Facilities

BY JUAN CHAVEZ

PEOPLE RELY ON HOSPITALS to provide the expertise and equipment needed to keep them healthy. However, if the electrical equipment fails at any point, doctors cannot provide this care and patients are put at risk. Here, Juan Chavez, vice president of transient surge protection specialist Energy Control Systems, explains how the UPS and transient detection solutions take care of equipment, so that doctors can take care of their patients.

Medical facilities rely on a steady flow of power to operate electrical medical equipment, keep the lights on and access patient data online. Equipment or system failure could lead to breakdowns, downtime and fatal consequences for patients.

For example, in summer 2019, a large-scale power outage left 48 million people across Argentina, Uruguay and Paraguay without electrical supply. Power was out for only a day, but it impacted vital infrastructure, including hospitals, which had

to use generators to continue treating patients. Power outages like this are out of the control of hospital directors and doctors but we can take preventative steps to ensure that power fluctuations do not impact operations.

Returning to Power

Generators can help to provide power in desperate situations, but some critical equipment such as ventilators and other monitors must have a constant stream of power to reduce risks to patients. Instead of relying on temporary power generators, hospital directors and facilities managers should have a plan to stop any (CONTINUED ON PAGE 18)



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interruptions to power flow.

An uninterruptible power supply (UPS) system should be a key part of a healthcare facility's preventative maintenance strategy. UPS systems supply backup energy in the event of power losses and can protect electrical and electronic systems from issues when losing the primary power source. A UPS is an essential bridge between a mains supply and the power provided by a backup diesel generator.

Protecting Equipment

However, power loss isn't the only issue that the managers of medical facilities should have on their agenda. Medical device equipment is incredibly sensitive – as is the human body. In fact, once the electrical insulation provided by our skin is taken away, for example during open surgery, a voltage as insignificant as the one passed on when you touch your mobile phone screen can be lethal.

Given that IBM estimates that there

are 120 power quality problems effecting sensitive equipment in a typical building every single month, it is clearly important to keep our medical equipment in perfect condition.

One way of doing this is to eliminate the low-level switching events, or transients, that occur constantly in electrical supply. Transients have high energy, with magnitudes in the thousands of volts, and short duration with rise times in the 1-10 microsecond range. While these surges are short, transients can disrupt, damage or destroy electrical and electronic equipment in an instant. Eliminating these transient surges reduces electrical damage and improves patient service by keeping electrical equipment out of the maintenance bay.

Energy Control Systems has developed SineTamer — a range of highly efficient surge and transient protection systems that help to protect valuable microprocessor based assets. SineTamer tracks events close to the sinewave,

which would be invisible to most power quality devices, and eliminates the problems caused by regular transient events. Our experts will also work with hospital directors to develop a bespoke system with any special configurations needed to comply with medical industry regulations.

Contact Energy Control Systems today to find the right system to help medical professionals forget about power and care for their patients. □

About ECS International: Energy Control Systems (ECS) is a global company with over 30 years' experience in the Surge Protective Devices and electrical power quality industry. ECS offers the industry's most complete and capable line of SPD for industrial, commercial and defense applications.

Juan Chavez is the vice president of transient surge protection specialist for Energy Control Systems.

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It's loaded with articles, industry news and new products from each issue of EPS.

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The Purchasing Guide for Electrical Contractors
www.epsmag.net

The screenshot displays the homepage of the Electrical Products & Solutions website. At the top, there is a navigation bar with links for HOME, ARTICLES, NEWS, VIDEOS, PRODUCTS, SUBSCRIBE, and CONTACT. Below the navigation bar, there are several featured articles and product highlights. One prominent article is titled "Frederik Meijer Gardens & Sculpture Park Finds Power with Wiremold® Ground Boxes". Other articles include "More Bold & Best Flame-Free Considerations When Designing an Electrical Enclosure" and "The Impact of What's in the Cabinet and How to Align". There are also sections for "WHAT'S NEW" featuring products like "Rocket Back releases Rocket Rod NSF certified All Thread rod with FDA-compliant encasement for clean, professional hygienic installations", "Easily Manage Tool & Equipment Inventory with Milwaukee Tool's New One-Key™ Asset ID Tags", "Klein Tools® Adds Neck and Face Band to Line of Cooling Products", "Dialight Improves Upon Versatile LED Area Light Fixture with Most Installation Flexibility for the Heavy Industrial Market", "Unjacketed Flexible Stainless Steel Conduit - Type SSL", and "Condux Tamesc Offers Underground Puller in Track Mounted Configuration". At the bottom, there are sections for "INDUSTRY NEWS" (Hy-Brid Lifts Appoints South-Central Territory Manager) and "CURRENT ISSUE: JUNE 2020" (Protect yourself from "Arc Flash").

REPAIR CONDUIT IN A SNAP!

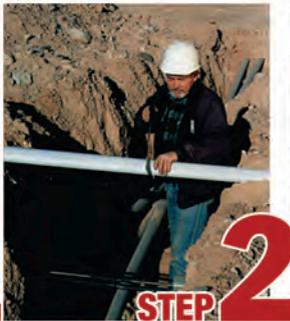
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New Retrofit Solution to Fire Rate Low-Profile LED Recessed Lights

Tenmat Announces the Only Foldable Fire Rated Enclosure for Modern LED Downlights

With the introduction of two new products, FF109-250 and FF109-200, Delaware-based Tenmat now offers the first flexible, fire rated barriers for modern, low-profile recessed light fixtures.

Both models are fire tested and approved by ETL-Intertek for use in 1 hour fire resistance-rated ceilings, providing a 60 minute firestopping barrier to protect ceiling openings for recessed light fixtures from flames, smoke and heat as required by the building code.

The cone-shaped covers can be installed in seconds without the need of any special tools, or additional foams or sealants. The ultra flexible nature of the material allows the cover to get rolled up for easy retrofit, remodel or new construction installation from below the ceiling.

The unique design gives the architect, specifier and installer more freedom in fixture selection as the covers covers are suitable for most low profile LED lights, ultra-thin wafer LED recessed lights, LED recessed retrofit downlights, LED recessed ceiling light and recessed spotlight remodel kits installed in floor/ceiling or roof/ceiling assemblies (attic spaces).

In addition to their fire stopping function, Tenmat covers also exhibit excellent acoustic insulating properties, reducing the noise transmission to and from the living area.

The covers come ready-to-use and do not require any assembly, making them a smart and affordable solution for contractors to meet the building code. Once in place the covers do not require any additional maintenance and are unaffected by moisture.

Tenmat Recessed Light Covers are used in thousands of applications throughout the entire United States and Canada; from small apartments, over single-family homes to multi-family dwellings, college dormitories, hospitals, assisted-living facilities, hotels and office buildings. To learn more about the new Fire Rated Low-Profile LED Downlight Covers and Tenmat's other innovative products please visit our website at www.tenmatusa.com. □

Fire Rate Low Profile LED Downlights **IN SECONDS**

INTRODUCING THE NEW

FF109-250 AND FF109-200

Fire Rated LED Light Covers



Fire Rated LED Light Covers



Designed for **modern**, low-profile LED downlights

The ideal solution for **retrofits** and new construction



Fits in **small spaces** • Installed in **seconds** • 60 minute **fire tested** • Fits up to **6"** tall downlights

KAI Experts Say COVID-19 Pandemic Causing Major Shift in Traditional Office Design and Function

Businesses encouraged to embrace the design changes or risk becoming irrelevant

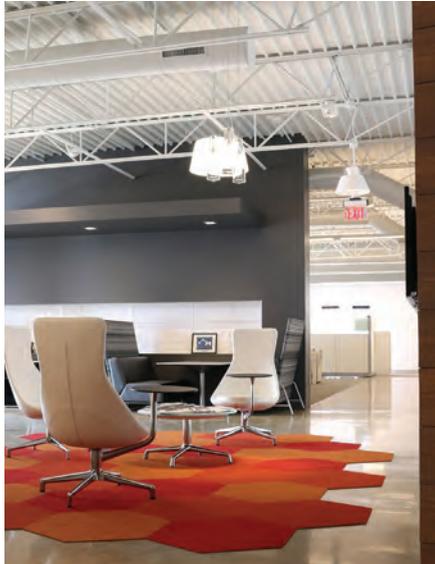
The COVID-19 pandemic is forcing the reassessment of long-established criteria for office layouts, conferencing, group activity space and other areas where people interact, say the experts at KAI Design. Traditional building materials will also be replaced more consistently with products that actively promote cleanliness, health and safety.

“We will most assuredly see these changes in new construction opportunities, and we will likely see a rise in business renovation and improvements. While COVID is the current crisis – it will not be the last. This moment in time will force an evaluation of business continuity and future operation challenges,” said KAI Managing Partner Brad Simmons, FAIA.

Simmons predicts a continued decrease in business travel and group events in general as employees become more acclimated with working remotely and with less concentration of staff. Collaboration approaches and team building efforts will also see ongoing change through reduced interactions, says Simmons. Design will have to change to accommodate these new norms.

“Concentrations of people will be diluted, driving a change in culture-building for companies. The question will be how do we find the balance of personal interaction that we all fundamentally need and seek, but design new safety and healthy practices within a facility that people will demand,” he said.

Design will continue to focus on limited touchpoints; from the time a person



enters a building using a touchless door operation, to interaction with a receptionist, how and where visitors sit while waiting, how visitors are offered a beverage while waiting, the greeting protocols, the pathway to a meeting room location and how the meeting room space is designed – it is all in question according to Simmons.

Employee kitchens and break rooms will also look different with more spacing and cleanliness standards and minimal touchpoints. How businesses physically space people in an open office environment will grow from the drive to cut square footage per person as businesses evaluate how many people they effectively need in an office versus work-from-home staff. Private offices and semi-open

offices could well be on the rise again, said Simmons, and conference rooms will also look different with more spacing and fewer people.

Technology will be the enabler to successfully implementing these new design practices and creating a business environment that fosters safe, healthy and intelligent interactions. Many businesses have long touted their use of technology, multi-office delivery platforms and ability to work nationally or globally. The majority of businesses routinely don’t get the full ROI out of their technology systems, says Simmons.

“I predict there will be a surge to challenge the ROI of current technology teams and collaboration systems for business. This is likely a tipping point where businesses will look for advantages to outposition their competitors,” said Simmons. “They will get the chance to see who can really work and thrive in that new world order, where relationships may have to be truly forged over technology platforms. Definitely a pivotal moment for businesses; embrace change or become irrelevant.”

For more information about office design modifications related to COVID-19, contact KAI Enterprises Managing Partner Brad Simmons, FAIA at 314-754-6389 or bsimmons@kai-db.com. □



ABOUT KAI ENTERPRISES:

KAI Enterprises is a national design and build firm providing delivery-oriented building solutions with a diverse portfolio of experience, in-house multi-discipline professionals, and expertise in both design and construction delivery. Founded in 1980, KAI has grown into one of the largest minority-owned firms in the AEC industry. For more than 40 years, KAI has been instrumental in transforming communities through its expertise in residential, commercial, K-12, higher education, healthcare, science and technology, aviation, mobility, sports and entertainment, government, water and community-focused projects. KAI Enterprises is comprised of four distinct business units—KAI Design, KAI Engineering, KAI Build and KAI 360 Construction Services. To learn more about KAI, visit www.kai-db.com.

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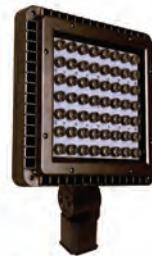
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KOHLER Launches 300-500 kW Gas-Powered Generators

New 300kW, 350kW, 400kW, 450kW, 500kW models feature patent-pending dual fuel system

KOHLER Power Systems is launching several new models of 60Hz and 50Hz gaseous-powered industrial generators, ranging from 300 to 500 kW, targeting mission critical, industrial, and commercial applications.

The new REZXD generator set lineup features an 18.3 liter, V-10 engine powering the 300kW and 350kW models, while the 21.9 liter, V-12 engine powers the 400kW, 450kW and 500kW models. The generators' turbocharged engines integrate durable cast iron cylinder heads with forged steel crankshafts and are optimized for power generation to maximize performance.

These generators provide users with the flexibility to select the appropriate gas fuel source for a specific application including natural gas (primary) and LP (secondary), and feature a dual fuel option with a patent-pending fuel reset box. This dual fuel system enables the generator to switch automatically from natural gas to LP, and when sensing that LP is low it reverts back to natural gas. There is also a switch on the reset box that allows users to switch from one fuel to the other manually without operation disruption. For ease of installation, a fuel inlet connection is provided on the skid wall along with an oil drain connection.

The new units are ideal to provide reliable standby power for a variety of applications including commercial and municipal buildings, water treatment, educational facilities, apartment complexes, health clinics and nursing homes, and more.

"We understand that installation versatility and footprint parameters are always

important considerations for our customers, so we focus a great deal of attention on designing a compact package without sacrificing power and performance," said Amy Haese, associate product manager for KOHLER industrial generators.

"Our 400 and 500 kW enclosures were designed with a 34-inch reduction in length and 10-inch reduction in width to ensure flexibility in installation."

The generators are available as open or closed units and can be specified with KOHLER-designed sound-attenuated enclosures. The durable aluminum enclosures are also hurricane-rated and meet the most stringent and widely recognized Testing Application Standards (TAS) within the Florida Building Code for wind load and projectile impact.

Users have their choice of controllers including the APM402 and APM603. Both of these options offer precise voltage regulation, a digital display and menu control for easy access to local data, seamless remote communication through standard protocol including support for remote annunciation, and building management system integration.

The newer APM 603 provides enhanced performance and monitoring features such as (+/- .25%) voltage regulation, dual fuel control, expanded inputs and outputs, a larger seven-inch display, and the ability to parallel as many as eight generator sets.

"Our gas generators are suited for a wide array of industrial settings and



because they're fully-integrated units, KOHLER provides one-source responsibility for the generating system and accessories – including fast, easy access to our genuine aftermarket parts and service," said Haese.

The 300-500 REZXD generators are now exclusively available through KOHLER's extensive network of dealers/distributors throughout the United States. A Distributor Locator can be found online here: <https://kohlerpower.com/en/generators/industrial/distributor-locator>. □

KOHLER®

ABOUT KOHLER:

A global force in power solutions since 1920, KOHLER manufactures complete power systems, including generators (portable, marine, residential, commercial, and industrial), automatic transfer switches, switchgear, monitoring controls, and accessories for emergency, prime power and energy-management applications all around the world. The company is committed to reliable, leading edge power-generation products as well as comprehensive after-sale support. For additional details, please visit www.KOHLERPower.com.



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New My Leviton Pro Support and Rewards Program Available for Smart Home Installers

Through the updated My Leviton app, pros can set up customers' smart homes to earn and redeem awards points

Leviton announced recently that the company is now accepting applications for My Leviton Pro – a new support and rewards program geared toward professional installing contractors. The program is available through the My Leviton app for Decora Smart Wi-Fi devices, which has been updated on iOS and Android platforms. The app now includes a special login for professional electricians and integrators, an exclusive 1-800 support number, and easy-to-earn rewards.

“The new My Leviton Pro Support and Rewards Program further ensures that our valued electrical installation partners have the modern tools they need to effectively and efficiently turn every home into a smart home,” said Greg Rhoades director, marketing for Leviton. “For nearly 115 years, Leviton has assisted professional electricians, and our new My Leviton app features are just another way to show our appreciation and commitment to our partners.”

Through the new program, reward points are earned automatically upon Decora Smart Wi-Fi device enrollment to the My Leviton cloud – there are no invoices to submit and the points accrue almost immediately. With Pro Mode in the My Leviton app, electricians can use their own smartphones or tablets to log into their Pro accounts, create the homeowner's residence, add smart devices to the cloud, and then transfer control of the devices in the home to the homeowner. Reward points vary based upon the complexity and cost of the My Leviton-compatible device, and points expire two years after a device is enrolled.

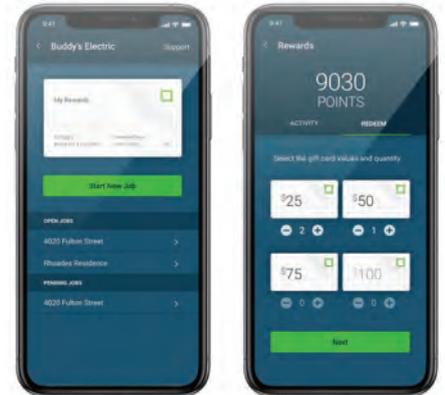
At any time, the owner or administra-



tor can use the My Leviton app to redeem gift certificates to the Leviton Logo Store in increments of \$25, \$50, \$75, or \$100. Redeemed gift certificates expire a year after receipt, ensuring long-term accrual is possible to earn the higher-value gear from brands like Carhartt, Nike, Titleist, Otterbox, Under Armour, Swiss Army, and more. Additionally, a rewards tracking dashboard provides a historical reference of when points were earned and what smart devices were enrolled. Beyond on-demand rewards, grand prizes will also be randomly raffled, including – YETI coolers, and a trip to New Orleans to meet the development team for a private dinner and ride in a real Mardi Gras parade with hotel, air, and beads provided.

In addition to the pro program and features, all My Leviton app users can now enjoy several new user experience enhancements to the popular app:

- A modernized and improved look, with the option to customize icons for smart devices and activities, such as “Movie Time”
- Access and updated new firmware for all My Leviton devices in one place
- Status of residence and lights, plus the option to easily engage home/away with the new “At a Glance” dashboard



- feature on the improved home screen
- Ability to turn lights on and off with one tap, instead of two
- Faster streamlined device setup with new illustrations and instructions.

These new features are coupled with all the great existing features, such as custom device settings, control from anywhere, schedules, activities, and integrations.

The My Leviton Pro Program is now accepting applications from US-based electrical contracting companies at <http://my.leviton.com/pro> and inquiries may be sent to MyLevitonPro@leviton.com. Upon approval, a Pro-level My Leviton app login will be provided, and the company owner or administrator may use the app to invite their electricians to earn reward points. □



ABOUT LEVITON:

Every day, Leviton is engineering possibilities that make the future happen, meeting the needs of today's residential, commercial, and industrial customers globally. From electrical, to lighting, to data networks, and energy management, Leviton develops thoughtful solutions that help make its customers' lives easier, safer, more efficient and more productive. Driven by its commitment to its customers, the ingenuity of its employees and the safety and quality of its products and solutions, with Leviton, the FUTURE IS ON. For more information, visit www.leviton.com, www.facebook.com/leviton, or www.youtube.com/Levitonmfg.



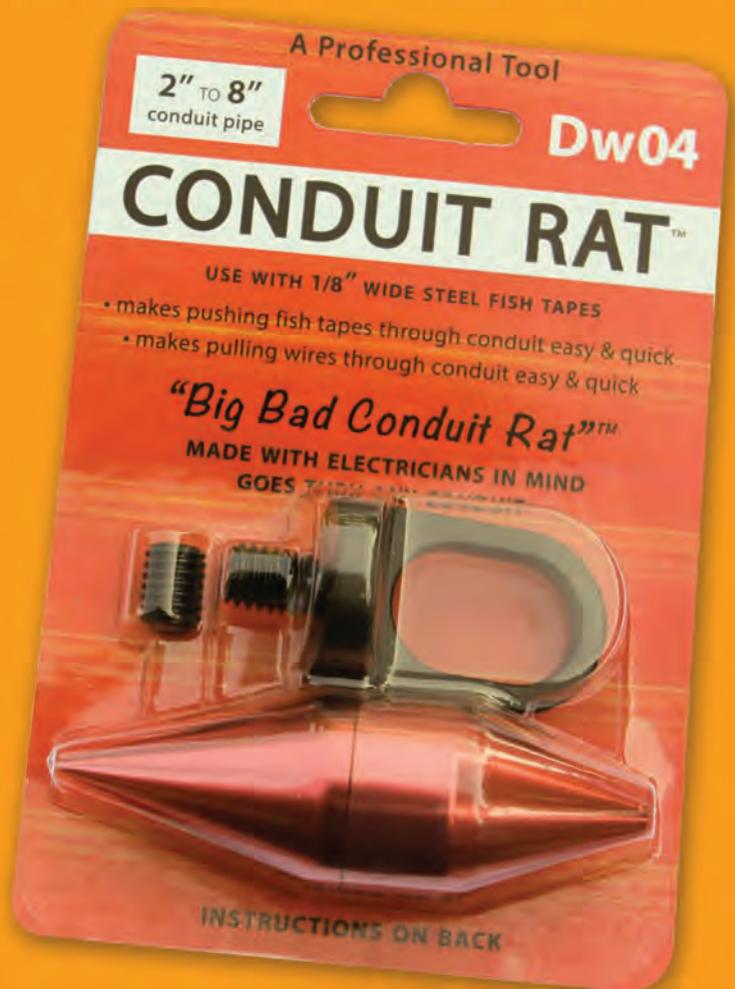
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LED Social Distancing Signage

Barron Lighting Group, the parent company to Exitronix life safety and emergency lighting, announces the addition of Social Distancing Signage to its line of LED products.

Available in a wide variety of enclosures including die-cast aluminum, thermoplastic, attractive edge-lit designs and outdoor configurations, Exitronix Social Distancing Signage has a solution for any application. They are built with the same quality components as our exit signs, and are available with red, green or blue legends and in single- or double-face configurations.

“In today’s health-conscious environment, social distancing has become a necessity,” said Heather McCune, Vice President, Sales and Operations. “Exitronix is committed to helping keep your employees, customers, patients and visitors safe.”

Exitronix Social Distancing Signage is ideal for retail, restaurants, bars, schools, hospitals and concert venues as a highly visible, effective means to enforce social distancing guidelines.



For more information, visit
barronlgt.com

Channellock® Introduces New Forged Wire Stripper

Channellock, Inc., is expanding its line of specialty tools with the introduction of the new CHANNELLOCK® 968 Forged Wire Stripper. Created with those in the electric, automotive and HVAC industries in mind, the tool is designed for superior quality, greater ease of use and is made with pride by CHANNELLOCK® associates in Meadville, Pa., from 100% forged U.S. steel.

“The 968 is a tool that pros have been asking for – and CHANNELLOCK® answered,” said Ryan DeArment, Vice-President of Sales and Marketing for Channellock, Inc. “Those pros demand precision and reliability. The CHANNELLOCK® 968 Wire Stripper is exceptionally strong and versatile, and is forged with the durability to outlast traditional wire strippers.”

The CHANNELLOCK® 968 Forged Wire Stripper strips 10-20 AWG solid and stranded wire. It has screw shears that are precision-machined to prevent damage to threads when cutting 6-32 and 8-32 machine screws and its curved cutting shear is designed to contain material during handling. By incorporating CHANNELLOCK® XLTTM Xtreme Leverage Technology, the tool requires considerably less force to cut than traditional high leverage designs, reducing hand fatigue. In addition, the 968 Wire Stripper has:

- A spring-loaded handle for easy, one-handed operation
- A lock for safe storage
- A curved shear that is uniquely shaped to contain material during handling
- A reaming head to deburr, clean, and flare up to 1-inch conduit with the versatility and strength

of a forged reaming head with precision-machined grooves.



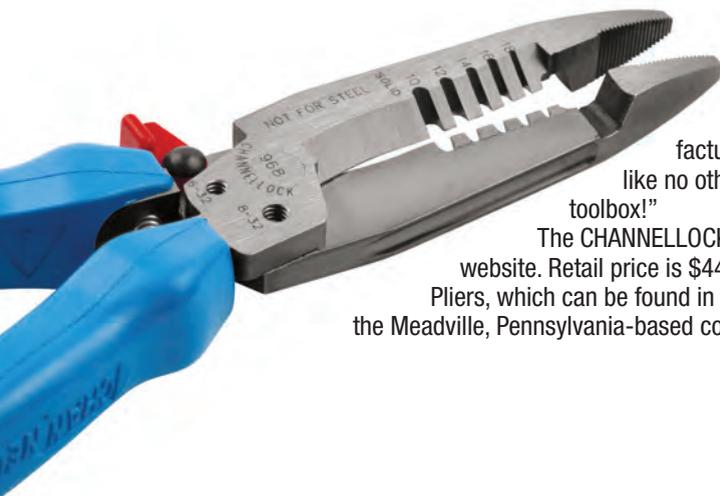
CHANNELLOCK BLUE® Comfort Grips

“After using the 968s, they’ve become my go-to wire stripper,” said HVAC specialist Rocky Hyatt. “They’re perfectly matched with most manufacturers’ wire insulation and don’t harm the conductor. The handles have a grip like no other tool on the market. Every pro needs this cutting-edge technology in their toolbox!”

The CHANNELLOCK® 968 Wire Stripper is available for purchase directly through Channellock’s website. Retail price is \$44.99.

Pliers, which can be found in quality retailers around the world. Founded by George B. DeArment in 1886, the Meadville, Pennsylvania-based company is now in its fifth generation of family ownership and operation.

For more information, visit
www.channellock.com



Emerson Escape Lights Provide Emergency Illumination in Oil Refineries and Petrochemical Plants

Appleton FDBAESLED Lights Approved for Hazardous Locations

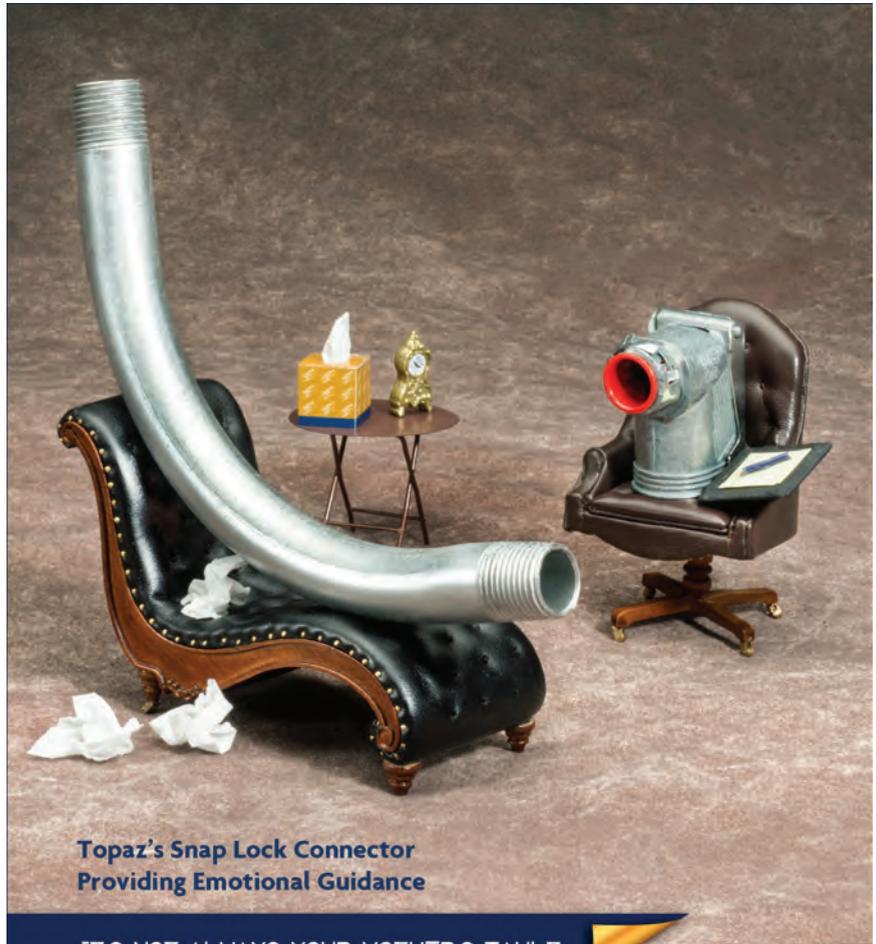
Emerson's Appleton™ FDBAESLED Series of flameproof LED escape lights that provide safe, reliable illumination indoors or outdoors in areas designated as Zone 1 and Zone 2 (hazardous gas), and Zone 21 and Zone 22 (hazardous dust) during a power failure to the lighting system. Capable of one hour of operation in emergency mode, they are ideal for escape route lighting in or around pulp and paper mills, oil refineries and petrochemical plants.

To ensure maximum dependability, these standalone LED units are entirely self-contained within a flameproof enclosure, and feature an automatic built-in self-test system with memorization of tests. FDBAESLED lighting can be remotely controlled and checked without switching the mains off using an optional remote control unit. It is designed to be installed in a safe area or within a flameproof box, which allows manual switching of up to 300 units for visual inspection.

In addition, a booster repeater unit can be integrated to increase the length of the network allowing up to 1000 emergency lighting units to be on a single control system. This provides for use of a single computer to centralize the management of the facilities emergency lighting system

Appleton FDBAESLED escape lights are available in switched, unswitched, addressable switched, and addressable unswitched hazardous area versions. In addition to oil and gas production, the lights are recommended for installation in industrial manufacturing, wastewater treatment plants, pulp and paper production, or other areas where hazardous gases and dusts are present.

For more information, visit www.masteringLED.com



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New LED Intigo Omni-Directional 35W Lamp

Replaces 175W MH/HPS Equivalent

HyLite is excited to announce the New Intigo Omni-Directional 35W Lamp. This New lamp is a high quality LED Retrofit Solution that replaces traditional 175W MH/HPS lamps. The HyLite LED Intigo Omni-Directional 35W Lamp enhances Vision for better Optical Acuity, and provides Clean, Crisp light. Suitable for Fully Enclosed Fixtures, its Compact Size makes it the ideal Replacement for CFL, MV, HID, and HPS Lamps in existing Fixtures. The Omni-Directional 35W Lamp comes standard with 3,000°K and 5,000°K and Products with 2,400°K-6,500°K are available as Special Orders only.

Designed for Easy Installation in New Fixtures or Existing Luminaires, HyLite LED Intigo Omni-Directional Lamps are Suitable for a Wide Variety of Applications. Can use the Intigo Omni-Directional 35W Lamp Base Up & Base Down. They feature excellent optics for Increased Visibility, and Low Power Consumption. With Lamp Life of up to 60,000 hours, they significantly reduce Energy Consumption and Relamping Costs, consequently decreasing Maintenance and Disposal Costs. The Intigo Omni-Directional 35W Lamp is IP65 rated for complete protection against contact, dust infiltration and water splashes.



**For more information, visit
hyliteledlighting.com**

Klein Tools® New Impact Wrench Joins Battery-Operated Tool Family

Klein Tools, for professionals since 1857, expands its offering of battery-operated tools with a better, more ergonomic way to fasten in the field. The 90-degree impact wrench allows the user to reach around a utility pole more easily, for better access with less fatigue. Engineered and designed by Klein Tools in the USA.

90-Degree Impact Wrench (Cat. No. BAT20LW)



- Right angle provides versatility for better reach around a utility pole with less effort
- Patent pending, bolt-through design for long bolt applications
- Delivers 300 ft-lb of max torque for installing fasteners into wood, metal and concrete
- Featuring 1-1/8", 1", 13/16" and 3/4" square drives
- 0 – 1800 RPM variable speed trigger for better control
- Safety lockout switch
- Worklight illuminates darker spaces
- D-ring for hanging
- Kit includes batteries, charger and bag (Cat. No. BAT20LW1)
- Engineered and designed by Klein Tools in the USA
- Powered by DeWALT 20V lithium-ion batteries



"Klein Tools' 90-Degree Impact wrench is the only one on the market to feature a bolt-through design specifically for long bolt applications" says Kozeta Topchian, senior product manager at Klein Tools. "The 90-degree impact wrench was engineered and designed by Klein Tools in the USA to provide a better, more ergonomic way to fasten in the field. The right angle of the tool makes reaching around poles easier and reduces the amount of wrist and shoulder fatigue experienced during the more traditional methods of fastening".

**For more information, visit
www.kleintools.com**

Megger MTR105 Rotating Machine Tester

- Full colour graphic display
- 3 Phase insulation resistance
- Temperature correction for insulation resistance
- Guard terminal
- DLRO four wire Kelvin
- Continuity and diode test
- Motor direction of rotation
- Capacitance and inductance
- CAT III 600 V up to 3000 m
- Environmental protection to IP54

The MTR105 is a dedicated Static Motor Tester with Megger's tried and trusted suite of insulation resistance tests (IR), plus all the great traditional features and reliability of Megger's testers.

The MTR105 takes the test abilities of Megger's proven IR test instruments adding DLRO four wire Kelvin low resistance test, inductance and capacitance tests to provide a versatile motor tester, all packaged in a robust hand held instrument, which up to now has simply not been available.

Additionally the MTR105 incorporates temperature measurement and compensation (for IR tests), motor direction of rotation plus supply phase rotation tests.

These new test abilities make the MTR105 a real world, versatile, hand held motor test instrument.



For more information, visit
us.megger.com

Milwaukee® Introduces Second Generation M12™ HAMMERVAC™ Universal Dust Extractor



Milwaukee Tool continues to drive improved safety and productivity on the jobsites with the second generation of the M12™ HAMMERVAC™ Universal Dust Extractor. Compatible with any brand of SDS Plus Rotary Hammers, the redesigned M12™ HAMMERVAC™ Universal Dust Extractor is OSHA® Table 1 compliant,* features a new AUTOPULSE™ filter cleaning system, and is the only dust-extraction solution with an integrated method that allows it to be emptied without any exposure to the user.

The AUTOPULSE™ Filter Cleaning System is an automatic, self-cleaning filter mechanism designed to offer better performance and suction. It does this by consistently knocking out dust during operation to ensure the dust is loosened in the dust box and easier to empty. Once the visible dust box is full, users can easily suction out the dust with a vacuum, mitigating the risk of that dust becoming airborne.

To achieve universal compatibility, the new M12™ HAMMERVAC™ comes equipped with one handle that fits all SDS Plus rotary hammers, both AC and DC, and the capacity to drill holes up to 8" deep and 1-1/4" in diameter. For ease of use, the HAMMERVAC™ features an adjustable depth gauge for easy and precise depth adjustments, an automatic activation switch to conserve battery when drilling, and small and large nozzles for use with any diameter bit.

Per HEPA standards, the certified HEPA filter will remove 99.97% of particles greater than 0.3 µm. The M12™ HAMMERVAC™ will continue to feature a replaceable filter so that the user can replace the filter independently of the dust box to cost-effectively maintain suction efficiency.

The M12™ HAMMERVAC™ Universal Dust Extractor joins the M12™ Cordless System, the largest sub-compact system on the market, focused on delivering industry-leading durability and power in the tightest spaces. Currently the M12™ System is made up of more than 100 solutions.

* In order to be compliant with the OSHA® regulation 29 CFR 1926.1153 on respirable silica dust companies must prove they are under the PEL by following Table 1 standards, demonstrating objective data, or conducting their own self-monitoring programs, as laid out by OSHA.

For more information, visit
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Arc Flash and Shock Hazard
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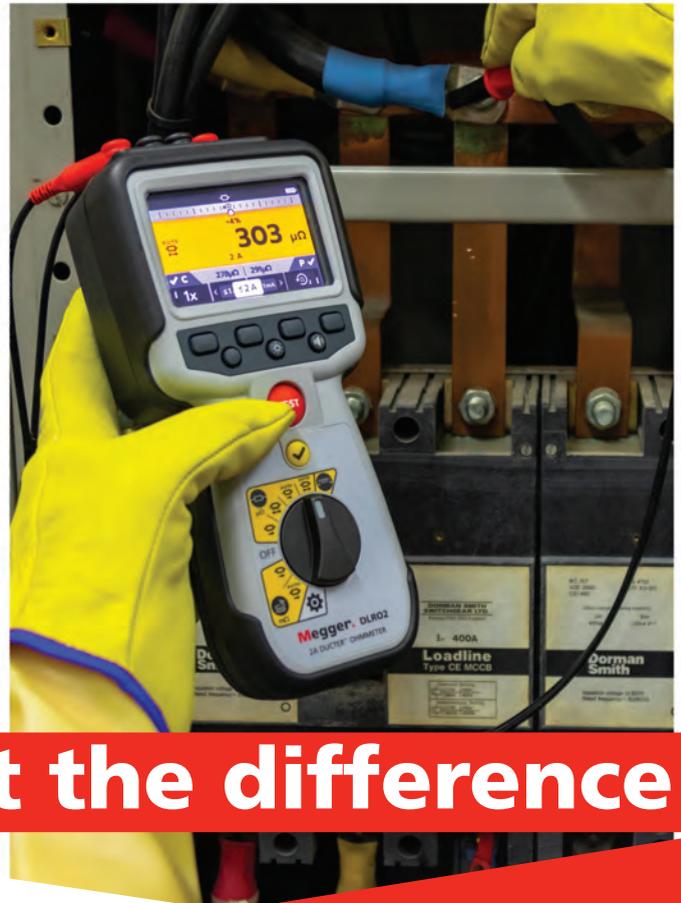
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