

The background of the cover is a photograph of utility workers. In the foreground, a white bucket truck is parked on a grassy area. Two workers wearing high-visibility vests and hard hats are visible on the truck. In the background, a line of power poles stretches into the distance under a clear blue sky.

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March 2018

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**Klein® Tools Increases
Cable Pulling Power
with New Tools for
Linemen**

**Miller Vi-Go™
Ladder Climbing
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**Greenlee's New G-Series Smart Pull Cable Tension Monitoring System
Designed to Save Contractors From Costly Errors on Cable Pulls**

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APR Energy Presented with “Emergency Assistance Award”

The Edison Electric Institute today presented APR Energy with the association’s “Emergency Assistance Award” for its work quickly delivering large-scale power to Puerto Rico after Hurricane Maria.

The award recognizes EEI member companies for outstanding response in assisting other electric power companies in power restoration efforts, after service has been disrupted by severe weather conditions or other natural events. The winners were chosen by a panel of judges following an international nomination process, and the awards were presented during EEI’s Winter Board and Chief Executives Meeting in Scottsdale, Arizona.

Anticipating profound devastation, APR Energy began moving equipment toward the region even before Hurricane Maria made landfall in Puerto Rico. The company was on the ground in San Juan just days after the storm knocked the power grid offline, working around-the-clock to finalize an agreement that would deliver 50 MW of power to Puerto Rico’s capitol.

On October 13, the day after the contract was signed to deliver power to Puerto Rico, APR Energy’s mobile gas turbines arrived at the port of San Juan.

www.aprenergy.com

Ritchie Bros. Partners with Caterpillar Inc.

Ritchie Bros., the world’s largest industrial auctioneer and a leading equipment distributor, and Caterpillar Inc. today announced that they have entered into a strategic alliance agreement. The strategic alliance is expected to deliver significant benefits to both companies, Caterpillar’s independent dealers and their respective customers, continuing an accelerated delivery of Caterpillar’s Internet of Things (IoT) connectivity offerings to improve customer fleet utilization.

Under the terms of the agreement, Ritchie Bros. will become Caterpillar’s preferred global partner for live onsite and online auctions with respect to used Caterpillar equipment, and will complement Caterpillar’s existing dealer channels. Ritchie Bros. will provide Caterpillar and its dealers with access to proprietary auction platforms, software and other value-added services, thereby enhancing the exchange of information and services between customers, dealers and suppliers. The strategic alliance is also expected to strengthen Ritchie Bros.’ relationship with Caterpillar’s independent dealers around the world by providing them enhanced and continued access to a global auction marketplace to sell their used equipment.

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TUS INDUSTRY NEWS

Takeuchi-US Adds Ditch Witch of Georgia to its Dealer Network

Takeuchi-US, an innovative global leader in compact equipment, has added Ditch Witch of Georgia to its dealer network. The company serves the trenching, grading, city and county governments, utility, directional drilling, locate electronics, water/sewer and landscaping markets, among others throughout Georgia.

Established over 55 years ago, the full-service dealer in Albany, Georgia now offers the full lineup of Takeuchi equipment — excavators, skid steer loaders, track loaders and wheel loaders.

“There is a reason Ditch Witch of Georgia has been around for over a half-century backed by strong customer service and continually expanding its portfolio,” said Kim Robinson, director of sales at Takeuchi-US.

“There is a great demand for compact equipment in our area and Takeuchi machines will fill that need,” said Ricky McCrary, branch manager, Ditch Witch of Georgia - Albany. “Not only does Takeuchi offer well-performing machines, but they are also a local manufacturer and just a few hours up the road from us. The brand carries a strong reputation around here and we are excited to showcase their products.”

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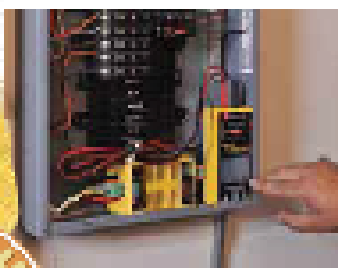
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Greenlee's New G-Series Smart Pull Cable Tension Monitoring System Designed to Save Contractors From Costly Errors on Cable Pulls

Greenlee, a Textron Inc. company, has developed the patent-pending G-Series Smart Pull, a real time cable pulling monitoring system designed to alert contractors when a cable pull has met or is exceeding the amount of tension recommended by the cable manufacturer. This saves contractors time and money by avoiding overstretching the cable leading to faulty cable installation.

"We've learned that an overstretched cable can lead to diminished transmission capabilities and even a potential fire hazard," said Sumeet Pujari, Greenlee Project Manager – Pulling + Fishing. "We also found that an overstretched cable can be costly to a contractor if a pull has to be reworked."

The new Greenlee Smart Pull alerts the user when pulling force exceeds 80% of the cable's limit. Physical, visual, and auditory warnings allow the worker to take action before the cable is damaged. A second alert is given when the pulling force has met 100% of the manufacturer's recommended tension limit. The Smart Pull has an accuracy of +/- 2 percent up to a load limit of 10,000 pounds (44.48 kN). Information obtained during the pull is stored directly onto the Smart Pull's 128MB of onboard memory. Pull data can be seamlessly exported via the onboard USB port or emailed directly through the PullCalc app.

"This proof of work helps contractors to avoid liability and provides building engineers with documentation that the cable was pulled to specification," added Pujari.



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A modern touch screen interface makes the Smart Pull easy to operate. The on-screen prompts make setup simple, and the unit is equipped with Bluetooth® technology, allowing connection to Greenlee’s PullCalc app. This application monitors pull force, speed, and distance in real time. An external USB port exports files in .CSV format. Files can also be transferred to the mobile app and emailed to other stakeholders.

The Smart Pull is compatible with rope sizes up to 7/8-inch diameter. The five-roller design holds the rope in place and maintains consistency to the sensor, eliminating the need to specify rope diameter. The Smart Pull operates on the 18V Makita® battery platform, and is compatible with 1.5Ah to 5Ah batteries. A single 5Ah battery will run for 20 uninterrupted hours.

The lightweight skeletal design and roll handles make this device easy to handle on the jobsite. The product comes in a carrying case with mounting hardware, battery and charger. It is compatible with the existing Greenlee Mobile VersiBoom™ II and floor mounts.

The Greenlee Smart Pull is available exclusively at the following distributors:

- A.A. Casey Co.
- California Service Too
- Colonial Electric Supply
- Contractors Choice, Inc.
- Crawford Electric Supply
- Electrical Engineering & Equipment Company
- Fasteners Inc. Southwestern Supply
- Lumen
- McNaughton-McKay Electric Company
- Platt Electric Supply
- Total Tool Supply, Inc.
- Von Rohr Equipment Corporation
- WESCO

The new G-Series Smart Pull is a real time cable pulling monitoring system that provides an innovative solution for Faster, Safer & Easier® cable pulling from Greenlee. For more information, visit www.greenlee.com or call 1-800-435-0786.

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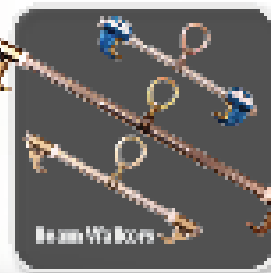
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GSSI Announces Flexible, Configurable Ground Penetrating Radar System for Utility Detection and More

GSSI, the world's leading manufacturer of ground penetrating radar (GPR) equipment, announces the release of the UtilityScan Pro, the latest addition to the company's popular UtilityScan GPR product line. UtilityScan systems are the industry standard for efficiently identifying and marking the location and depth of subsurface utilities, including gas, sewer, and communication lines. Featuring the SIR 4000 control unit, the UtilityScan Pro delivers the configurability and flexibility to address a wide range of utility applications.

This advanced GPR system is ideal for locating gas, communications, sewer lines, and other metallic and nonmetallic targets, including underground storage tanks and PVC pipes. The UtilityScan Pro also allows for real-time data collection, with a back-up cursor and cross-hair cursor that allow the user to accurately locate targets. Additionally, the new GPR system allows users to utilize multiple different techniques to calculate the depth of targets, for added flexibility. It effortlessly integrates with GPS and has the ability to store and replay data easily.

In addition to utility detection, the UtilityScan family of GPR solutions is configurable to the needs of Non-Destructive Testing (NDT) and environmental applications, including bridge deck assessment and concrete scanning. With a number of different cart and antenna configurations, the UtilityScan Pro can be tailored to meet a wide range of needs. All UtilityScan Pro configurations deliver exceptionally high-quality data and are rugged enough to withstand years of field usage, and include a two-year warranty.

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About GSSI

Geophysical Survey Systems, Inc. is the world leader in the development, manufacture, and sale of ground penetrating radar (GPR) equipment, primarily for the concrete inspection, utility mapping and locating, road and bridge deck evaluation, geophysics, and archaeology markets. Our equipment is used all over the world to explore the subsurface of the earth and to inspect infrastructure systems non-destructively. GSSI created the first commercial GPR system nearly 45 years ago and continues to provide the widest range and highest quality GPR equipment available today.

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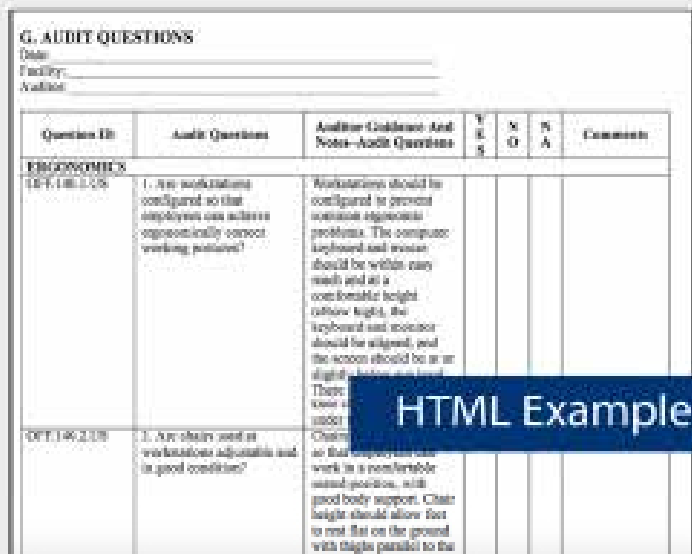
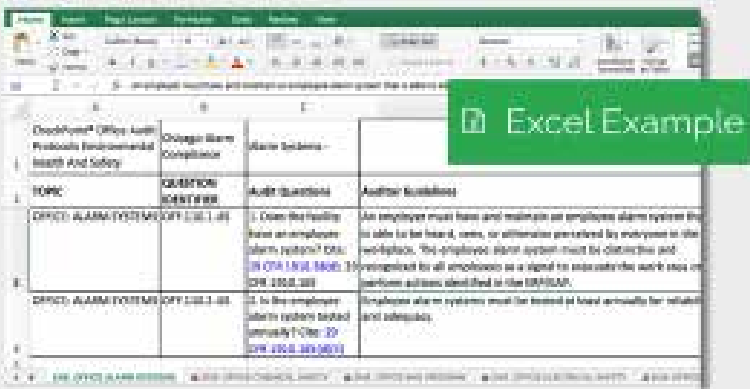
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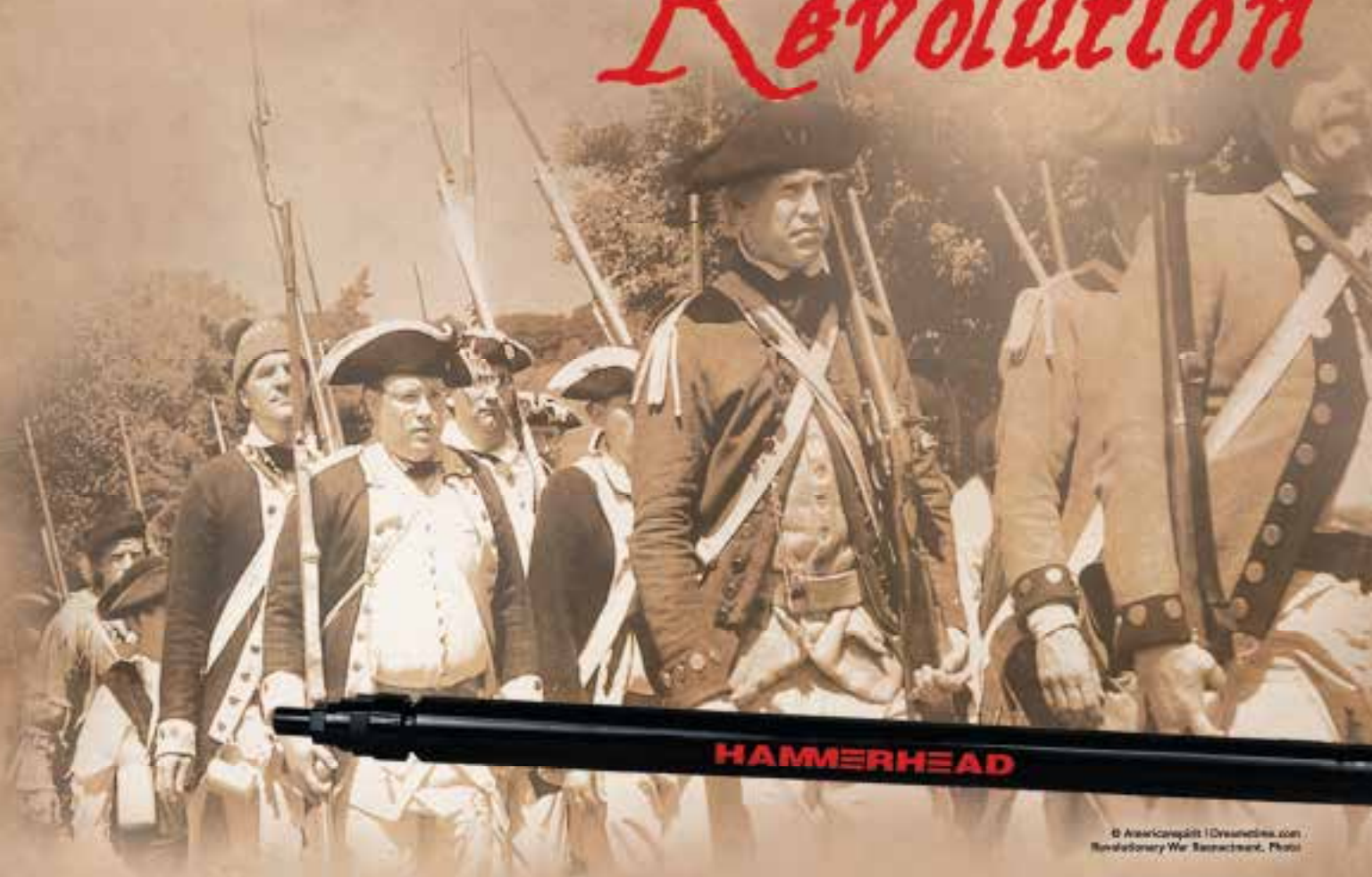
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Klein® Tools Increases Cable Pulling Power with New Tools for Linemen

Klein Tools, for professionals since 1857, introduces two new tools designed specifically with linemen in mind, the Howe Wire Tool with Handle and the Parallel Jaw Grip. The Howe Wire Tool provides an easier grip when pulling cable, while the Parallel Jaw Grip offers a lighter-weight option for Klein's innovative, high-traction solution for HDPE-coated cable. These two new U.S.-made products are designed to provide professional linemen with more convenient and reliable pulling power.

Howe Wire Tool with Handle (Cat. No. 1702-20HH)

- Versatile tool quickly sags service connections
- Added handle provides an easier grip during pulling
- Double-locking snap hook makes switching between grips convenient
- Forged steel swivel hook can reach under insulators with a large opening and long shank
- Safely pulls loads up to 500 lb (227 kg)
- Strap is built to last with tough nylon webbing
- Galvanized metal parts increase durability

Parallel Jaw Grip, HDPE-Coated Cable to 1.362" (Cat. No. 1716-70)

- Securely pulls HDPE-coated cable, commonly known as "tree wire"
- Innovative, high-traction surface grips cable without damaging the outer jacket
- Pulls cable diameters 0.625" - 1.362" (15.875 mm - 34.595 mm)
- Spring-loaded for convenient one-handed operation and easy placement on conductors
- Tough carbide grit technology withstands harsh jobsite conditions
- Wider cable diameter range and 3 lbs lighter than alternate model (Cat. No. 1716-60)
- Common tree wire cable types include General Cable, Hendrix® aerial systems, Rite Lite BLL conductor and Southwire® S2 covered cable
- Hendrix® is a registered trademark of Marmon Utility, LLC
- Southwire® is a registered trademark of Southwire Company, LLC

"Over 160 years ago, the first pair of Klein pliers was forged together for a telegraph line-man in need," says Kozeta Topchian, product manager at Klein Tools. "Today, we continue to serve linemen with innovative solutions to everyday challenges. Both the Howe Wire Tool and the Parallel Jaw Grip give linemen and utility workers more convenient ways to get their jobs done right."





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About 70% of drops happen during the exchange of the lanyard from one tool to another. The Snap-on Tools@Height system features independent tethering, which means each tool is attached to its own lanyard. Minimizing exchanges reduces the likelihood of drops and increases safety.

MINIMIZE RISK

Independent tethering also allows the tool to be removed from and returned to its holster or pouch using just one hand. Safety is improved by allowing the user to maintain the critical "three points of contact" when working at height.

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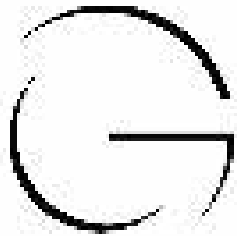
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Miller Vi-Go™ Ladder Climbing Safety Systems (Cable)

Miller Vi-Go™ Ladder Climbing Safety Systems from Honeywell provide the ultimate in safety with continuous fall protection when climbing fixed ladders. The systems are available in easy-to-install kits or as a build your own option.

The uniquely-designed, patent-pending Vi-Go Cable Sleeve automatically bypasses intermediate cable guides, keeping both hands free for climbing; travels smoothly along cable and locks instantly in the event of a fall — to provide uninterrupted fall protection.

In addition, no pins/chains or external parts to lose or damage means easy, one-hand operation.

Features

- Attachment mechanism engineered to prevent incorrect installation – Unit will not open if attached incorrectly
- Cable sleeve integrated shock-absorbing element – Provides a “dual shock-absorbing system” to further reduce fall forces. Protects the system and ladder from damage
- Accommodate up to four (4) workers at a time
- Accommodate 5/16-in. (8 mm) or 3/8-in. (10 mm) cable
- Select Automatic or Manual Personal Fall Arrester Cable Sleeves - Both cable sleeves are designed to follow the user along the lifeline while ascending or descending, instantly locking in the event of a fall

Vi-Go System Kits with Automatic Pass-Through

- Uninterrupted fall protection– Uniquely-designed, patent-pending Vi-Go Cable Sleeve automatically bypasses intermediate cable guides, keeping both hands free for climbing; travels smoothly along cable and locks



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instantly in the event of a fall

- Easy, one-hand operation for attachment/detachment from the system. No pins/chains or external parts to lose or damage
- Automatic pass-through cable guides secure lifeline to prevent cable wear and enable the system to accommodate curves.
- Withstand harsh environments– The Vi-Go Cable Sleeve is constructed with durable, corrosion-resistant aluminum and stainless steel components
- Attachment mechanism engineered to prevent incorrect installation, ensuring greater safety. Unit will not open if attached incorrectly
- Cable sleeve integrated shock-absorbing element
- Accommodate 5/16-in.(8 mm)or 3/8-in.(10 mm)cable

Vi-Go System Kits with Manual Pass-Through

- Require manual removal/insertion of cable with intermediate guides.
- Cable guides secure lifeline to prevent cable wear.
- Manual Vi-Go Cable Sleeve follows the worker while ascending and descending.

- Cable sleeve locks instantly in the event of a fall.
- Accommodate 3/8-in. (10 mm)cable.
- Cable sleeve must be purchased separately.

Build Your Own System- For multiple system installations requiring cutting cable on site

On a job site, exact cable lengths may vary and pre-cut cable length system kits will not meet installation requirements.

The solution is to Build Your Own System by selecting the following components:

- Top bracket assembly
- Bottom bracket assembly
- Vi-Go cable guides – continuous or manual -(Minimum one (1) required per 40-ft. [12.2 m] length)¹
- Fast-Attach Fitting for 3/8-in.(10 mm)diameter galvanized steel cable
- Cable
- Vi-Go cable sleeve – automatic or manual

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Lightest, Most Balanced: Milwaukee® 12T Utility Crimper Delivers Ergonomics Advantage

Milwaukee Tool continues to deliver industry specific products for Linemen with the introduction of the M18™ FORCE LOGIC™ 12T Utility Crimper. Developed specifically for the challenges linemen encounter on a daily basis, the new tool optimizes weight and balance for best in class ergonomics and the easiest way to crimp.

Traditional 12T crimpers are extremely front heavy and unbalanced putting additional strain on the wrist, making aligning crimps a challenge for one person. Understanding the importance of accuracy and ergonomics, Milwaukee® delivered the lightest crimper on the market. Repositioning the handle to fully balance the tool gives the user maximum control. This thoughtful engineering, combined with a 350° rotating head and red alignment marks provides for a neutral wrist position regardless of the way the user needs to crimp and delivers the easiest alignment in the industry.

Featuring Predictive Force Monitoring (PFM™), an adaptive pressure control system, the tool constantly measures force output delivering consistent speed, that won't bog down on larger connectors, and accurate pressure every time. This crimper provides Linemen with instant pressure verification through a green LED indicator. Pre-crimp battery check automatically ensures there's enough battery charge to fully complete each crimp and not get stuck on a connector.

Powered by M18 RED LITHIUM™, the batteries and hydraulic system are optimized for consistent performance from -18°C/0°F to 55°C/122°F ensuring the tool works in the harshest and most remote environments where

Linemen work every day. For maximum protection against the elements, sealed electronics keep dirt, dust and moisture out, while PFM™ protects internal components for the longest tool life in the industry.

As a complete problem-solving solution, the M18™ FORCE LOGIC™ 12T Utility Crimper is compatible with the digital platform, ONE KEY™,** which allows the user to sync the tool wirelessly with their mobile device or desktop. Users will be able to upload data and history to create custom reports that track the success and timing of electrical terminations, identify where and when the tool was last seen, and track the utilization and service intervals of the tool to maximize uptime and keep inventory lean.

From the power plant, through transmission and distribution, it is Milwaukee's goal to improve reliability and productivity for Linemen by offering cordless solutions on one battery platform replacing the traditional corded, gas and truck hydraulic solutions used today. With a base of tools on the M18™ system already used by Linemen, the launch of game-changing 6T Utility Crimpers in 2015 and the introduction of three uniquely innovative Utility Cable Cutting solutions this year, Milwaukee® is committed to making this goal a reality.

*FORCE LOGIC™ is engineered to not only improve upon, but fundamentally change the way high-force tools are used in the field. Through thoughtful design focused on workflow, each tool simplifies a complicated process to deliver the best user experience of its kind and the smartest way to work.



**ONE-KEY™ is the first digital platform for tools and equipment. By integrating industry-leading tool electronics with a custom-built cloud based program, ONE-KEY™ provides a new level of control and access to information that revolutionizes the way work gets done. The ability to customize, track, and manage through ONE-KEY™ fundamentally changes the way users interact with their tools

Specifications:

M18™ FORCE LOGIC™ 12T Utility Crimper (2778-22)

- Output Force: 12 Tons
- Length: 16"
- Head Rotation: 350°
- Full Pressure Indicator: Yes
- Adaptive Pressure Control: Yes, PFM™
- ONE KEY™ Enabled: Yes

Includes M18 FORCE LOGIC™ 12T Utility Crimper, Carabineer, (1) M18™ RED LITHIUM™ 5.0 XC Battery Pack, (1) M18 RED LITHIUM™ 2.0 Compact Battery Pack, M18™ AC/DC Wall & Vehicle Charger and Utility Bag.

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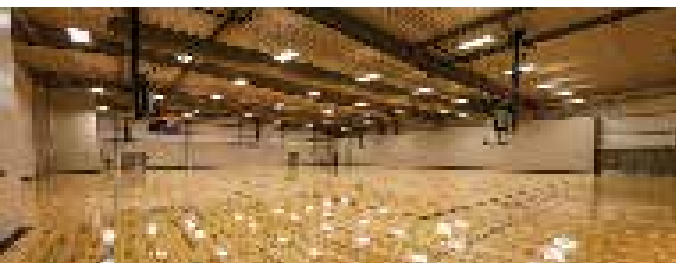
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HD Electric Company's New DoubleVision™ Dual Display Phasing Voltmeter

HD Electric Company, a Textron Inc. company, continues to drive innovation with the new DoubleVision™ Dual Display Phasing Voltmeter. The DDPM-40 is a compact, high accuracy wireless voltmeter and phasing set with capacitive test point mode and peak hold capability. The DDPM-40 will show the leading or lagging phase as well as the phase angle during wireless phasing operations.

The DDPM-40 measures voltage from 5V to 43kV and can be used in both overhead and underground applications. The DDPM-40 is accurate and repeatable to within 1 percent. The voltage is displayed on the two large bright LED displays that are synchronized wirelessly to make voltage measurements and phase identification easy, especially when working over a distance across switches. The DDPM-40 has a single button interface that controls all modes including: line to line measurements; line to ground measurements; capacitive test point; and real time & peak hold reporting.

The wireless phasing voltmeter is lightweight and its weather-resistant construction is ideal for use in tight work environments with minimum approach distances or with storm duty during disaster relief.

www.HDElectricCompany.com



GSSI Announces the Release of UtilityScanO HS

GSSI, the world's leading manufacturer of ground penetrating radar (GPR) equipment, announces the release of the UtilityScanO HS, the newest product in its popular UtilityScan GPR system line. The UtilityScan line is the industry standard for efficiently identifying and marking the location and depth of subsurface utilities, including gas, sewer, and communication lines. The newly released UtilityScan HS model incorporates the 350 HS antenna, a state-of-the-art digital antenna designed with features GSSI's patented HyperStacking™ technology. HyperStacking technology greatly improves the depth and data resolution performance over traditional RTS technologies.



HyperStacking is a revolutionary real-time sampling (RTS) technique patented by GSSI, which greatly improves the receive performance of a GPR system while maintaining the measurement speed and radiated emission limits. By incorporating the 350 HS antenna, the UtilityScan HS deliver higher data resolution, better RF noise immunity, and better depth penetration than traditional GPR antennas. The 350 HS can reach depths of up to 12 meters (40 feet). The UtilityScan HS also provides advanced signal processing tools such as stacking, signal floor tracking and background removal.

www.geophysical.com

Cree, Inc Announces Next Generation of LED Bulbs



Cree, Inc. announces a completely new portfolio of next generation LED bulbs aimed at delivering better light experiences for consumers. The new bulb portfolio consists of 25 new products, offering better light quality, better dimming, better lifetime, better warranty and better pricing to deliver on the true promise of LED technology to make lighting better than it was before.

“Cree is committed to innovation and unlocking the true potential of LED technology,” said Betty Noonan, Cree chief marketing officer and general manager, consumer lighting. “Many new LED products fail to live up to the promise of LED technology; shouldn’t you choose a better bulb when it will live in your house for decades? Cree believes it’s now more important than ever to give consumers a better choice.”

“The Home Depot continues to offer the latest innovations in LED lighting, as can be seen with this new portfolio of Cree® LED bulbs. Our customers are looking for a high quality LED lighting experience that combines the latest technology with the benefits of energy savings and durability LEDs are known for,” said Joey Corona, Merchant, The Home Depot.

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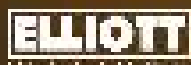
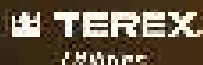
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