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## THE UTILITYSOURCE

Products and Services for Today's Electric, Telecom, and CATV Utilities

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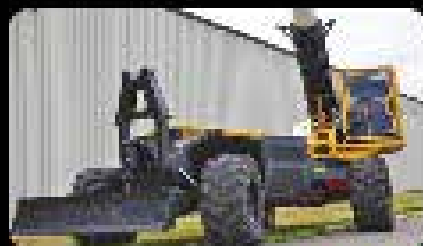
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## Felling Trailers, Inc. Holds 5th Annual Online Auction Benefiting Special Olympics Minnesota



Felling Trailers, Inc. conducted its fifth annual online auction of an FT-3 drop deck utility trailer to benefit a non-profit organization, Special Olympics Minnesota in October of this year. To close the chapter on this year's story, Felling Trailers, Inc. presented the donation checks to two Special Olympics Teams, Special Olympics Golden Eagles and Young Athletes teams. "Special Olympics Minnesota was very gracious to allow Felling Trailers to keep the donated funds local. The Special Olympics Golden Eagles team is comprised of participants from the Sauk Centre and Melrose, MN areas and the Young Athletes team of the Sauk Centre area," said Brenda Jennissen, CEO of Felling Trailers, Inc. The winning bid of \$2,900 was divided between the two groups with \$2,000 going to the Golden Eagles team and \$900 going to the Young Athletes team. "It was truly a pleasure to meet those

that will directly benefit from the dollars raised through our Trailer for a Cause Auction," said Jennissen.

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### Aclara Industry Conference in May

Hundreds of delegates from electric, water and gas utilities around the world will come together at Aclara's annual industry conference and exhibition, Aclara-Connect 2018, being held May 14-17 at the San Diego Marriott Marquis & Marina.

This year builds on last year's theme of being a utility-industry game changer by emphasizing the power of coming together as a team to tackle challenges through innovation, open new avenues of economic growth and transform the industry.

AclaraConnect offers unparalleled opportunities for utility representatives to gain new skills, glean new perspectives and connect with colleagues from around the globe. Designed to inspire and inform, the extensive program includes real-world case studies, insights into technology innovations, panels with leaders and innovators, actionable takeaways and abundant networking opportunities.

"AclaraConnect is an event where leaders, innovators, and utility-industry professionals gather to learn about the latest advances and to share their stories. The program creates ongoing opportunities for delegates to learn from colleagues who are building smart infrastructure solutions and to gain insights from experts on how the utility industry is evolving," said Allan Connolly, president of Aclara and divisional vice president of Hubbell Power Systems.

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## Purpose-Built Rubber Track Carriers for the Utilities Industry

Morooka VDL-Series – Built for the work you do

In 2017 Morooka USA unveiled its purpose-built utility carrier line, the Morooka VDL series. Specifically designed for aerial installation and manufactured at the Morooka facilities in Virginia, these carriers offer utilities companies something that's been missing for a long time – carriers designed specifically for the work they do.

Ken Byrd, president of Morooka USA in Ashland, Virginia, said Morooka recognized the needs of the utilities industry differ markedly from the construction industry, which most rubber track carriers are designed to serve. One primary difference is the greater need for rapid mobilization. A utility company's carriers are often called out on a moment's notice, any time of day, any day of the week. A snowstorm on

Friday can cut service to customers a full weekend – even more during holidays – if the provider has to wait for special transportation permitting of track-mounted equipment to service a downed line or blown transformer.

Byrd said that's why Morooka USA spent more than five years in research and development of utilities applications, surveying end-users, aerial equipment manufacturers and third-party installers. In late 2017 it launched its purpose-built VDL series with five models currently available with aerial capacity spanning 42 to 125 feet in vertical reach.

It's all about the frame

Byrd said while all carriers in the VDL-series range offer the same Morooka quality materials and manufacturing as its construction industry rub-

ber track carriers, the VDL models offer specific advantages for use in utilities applications from the base up. "It's all about the frame." One advantage is ease of mobilization due to the DOT-friendly 8 foot 6 inch width of several models. That means they can be towed without special permitting behind most company pickups, on trailers the company already has in its fleet. The result is instant mobilization capability.

Ease of transport is also enhanced by an offset engine location in the larger models. This configuration lowers the carrier's trailered height, allowing the boom to nestle down between the engine and cabin during transportation. It also lowers their center of gravity, improving handling on the road, and the lower trailered height all but eliminates clearance concerns posed by low overhead lines, signs and bridges or tunnels with low ceilings.



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## Installation advantages

The Morooka VDL-series frames are a solid, one-piece design made to precise OEM specifications. "We work closely with all major manufacturers of aerial devices, so we know their safety requirements, not just the specific mounting specs for dimensions or bolt holes. And length of frame is not at all limited to a catalog offering. We can easily customize frame length."

The one-piece Morooka frames reduce cost of equipment installation. Byrd said, "It saves installers anywhere from 30 to 50 hours of installation time, not only reducing labor cost but cutting out all cost for extra material that would be required for a fabrication."

Since the models are built here in the U.S., in the company's Ashland and Mechanicsville facilities, a Morooka carrier's high value comes from both its

competitive pricing and coast-to-coast product support. All Morooka carriers are built to high U.S. standards using parts and materials readily available throughout the North American market. That makes them easy to service and maintain, with excellent parts availability and greatly reduced risk of shipping delay.

A U.S.-build machine also means Morooka has no trouble customizing carriers to meet an individual OEM's needs. In addition to lengthening or shortening the one-piece upper frame rail, for instance, Morooka can also modify a carrier using a variety of hydraulic and fuel tank sizes to match requirements for operation or to accommodate specific attachments. Any items specific to the OEM's build process can be incorporated in the design and build processes at Morooka to save time and expense in the final build.

For these reasons, many of the largest providers of aerial equipment in the U.S. partner with Morooka to carry their OEM products. "For the utilities industry, it's primarily aerial equipment. But the VDL-series carriers can take any mount, from personnel carriers to cement mixers and hydroseeders – there's really no limit. Anything you can put on a truck, you can put on these carriers, all with no special modification during installation."

## Range

All of the utility carriers in the Morooka utilities lineup feature ROPS-certified open canopies and cabins. All use backup cameras for operator and job-site safety, and the larger units have remote mirrors to ensure that operators can stay in contact with their surroundings. H1 hydraulics with built-in charge pumps simplify installation, as do their truck-dimension frames.

## MST600VDL

The Morooka MST600VDL is the smallest carrier in the line, with a machine weight of 8,800 pounds. It comfortably

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supports digger derricks and bucket trucks up to 42 feet in working height. The MST600VDL is available in the standard open ROPS or the new ROPS cabin with or without air conditioning. Its small size and easy operation also make it an ideal rental machine.

#### MST800VDL

The newest utility carrier is the Morooka MST800VDL. It is designed for

attachments up to 55 feet in height. Air conditioning in this size class is a new option in 2018. OEMs have found the 800VDL to be one of the most easily adaptable carriers and are finding more aerial equipment to mount on this model every day. The 800VDL weighs 14,000 pounds.

#### MST1500VDL

Supporting aerals up to 75 feet, the

Morooka MST1500VDL is powered by a Caterpillar C7.1 Tier 4 Final engine. The engine has been relocated from the normal center position of its sister model for the construction industry, to create a well between the operator's cabin and the engine compartment. The well provides a place for the aerial attachment to be stowed for transport. It is an 8 foot 6 inch wide machine that can be easily transported between jobs without special permitting.

#### MST2500VDL

The MST2500VDL has been called a "real game-changer" for carriers in a road-legal size. It has the capacity to support aerals with up to 100 feet vertical reach and is powered by a 250 hp version of the Caterpillar C7.1 Tier 4 Final engine. The engine is located to the right front platform, as on the 1500VDL, providing a well for aerial storage to lower trailered height and enhance stability during transport.

#### MST3500VDL

To meet the increasing need of the utilities industry for off-road carriers with longer reach, Morooka created its MST3500VDL utility carrier. The 3500VDL shares all features of the other Morooka carriers in the line-up but has an aerial reach of up to 125 feet. Its 9 foot 10 inch wide frame offers greater stability, and a 15 foot 1 inch rear frame rail offers the flexibility for a variety of aerial installations. Power is supplied by the 300 hp Caterpillar C7.1 Tier 4 Final engine.

#### MST4500VDL

Morooka designed its MST4500VDL – the largest rubber track utility carrier available – in close alliance with the major aerial manufacturers across America. Powered by a Caterpillar C9.3 Tier 4 Final engine, the 4500VDL offers 19 feet 5 inches of rear frame space with exceptional stability.

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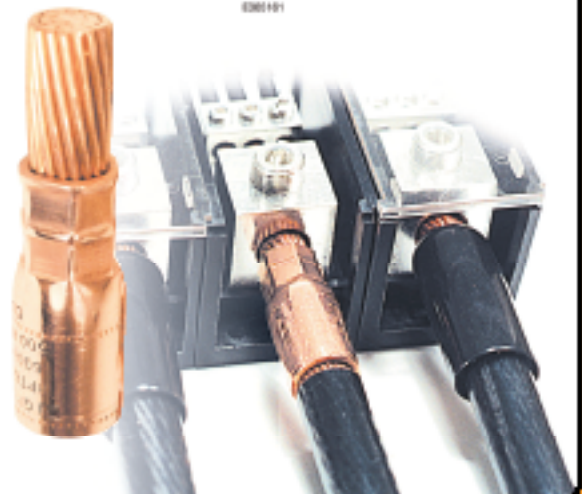
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## Terex® to Show HyPower™ IM with Operational Aid Enhancement at TechAdvantage

HyPower™ IM, the popular idle mitigation solution from Terex Utilities, will be featured on a Hi-Ranger™ LT40 aerial device from Booth 711 at TechAdvantage 2018 Conference & Expo, in Nashville, Tenn. The patent pending HyPower Hybrid System for aerial devices offers a lighter weight system that reduces fuel usage and exhaust emissions, at a lower price point than other hybrid systems.

HyPower IM is a 48v Lithium ion battery system that charges from either a standard 120V plug in or the 12v chassis engine alternator during road travel. Using fewer, more efficient batteries than other hybrid systems, HyPower IM decreases overall vehicle weight and increases payload capacity. It automatically switches from battery-stored power when the truck is in idling mode to engine-supplied power when hydraulic controls are engaged. Workers do not have to remember to engage the system to gain the benefit of utilizing the battery power system as it is integrated into the unit.

"Fleet managers were looking for efficient solutions to reduce emissions," said Joe Caywood, Director of Marketing.

"Terex develops new products and features like HyPower IM, as a result of listening to challenges our customer's face, then seeking solutions to meet those needs. This is also the case with a new operational aid concept we are showcasing at TechAdvantage," said Caywood.

The positive lanyard attachment warning system is designed to reduce the chance of an operator elevating the bucket without a lanyard attached. When an operator hooks the lanyard into the lanyard anchor a switch is displaced signaling that the lanyard is attached. Optional data recording can be used for training purposes.

"Terex continues to listen to industry feedback in order to deliver progressive solutions," said Caywood. "The positive lanyard attachment device is currently a concept in development and we welcome additional customer partners to help develop this into a production-ready option."

Visit Terex Utilities at TechAdvantage at Booth 711 and learn more at [www.terex.com/utilities](http://www.terex.com/utilities) •



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arXiv:1607.02652v1 [math.NA] 10 Jul 2016

**Pine**



# 7 Ways Drones Can Transform the Utility Industry

By Seth Hutcherson, Director of Strategy Planning and Business Development at Skyward

To remain competitive in today's digital economy, utility companies need to rethink their operations. And one technology that offers tremendous potential is drones. Drones are poised to revolutionize how the utility industry manages operations, offering a dramatic way to cut costs, reduce time, and prevent injuries—while giving utility companies the real-time, detailed information they need to precisely manage their operations.

To understand the enormous benefits drones offer, consider this: In the U.S. alone, there are 200,000 miles of high-voltage transmission lines and 5.5 million miles of distribution lines that need periodic inspection. Manned aircraft for line inspections typically cost between \$1,000 and \$2,000 per hour, compared to about \$200 to \$300 an hour for drones—generating cost savings of as much as 90 percent. In addition, drones can fly closer to the infrastructure than manned aircraft, collecting the detailed data needed to accurately monitor what's happening on the ground.

Transforming the way utilities operate

So how exactly can drones transform utility industry operations? Here are seven ways:

1. **Reduce inspection times.** Drones can make maintenance inspections both faster and cheaper. Using a drone to inspect a 100-kilometer gas pipeline in Mexico, for example, one company spotted a fissure possibly caused by seismic activity, along with other potential problems, in just one hour. The same work would have taken weeks using traditional methods. Whether you're managing vegetation along transmission and distribution lines, searching for leaks in water pipelines, or conducting preventive maintenance on wind turbines, using drones leads to faster, more accurate inspections.
2. **Rapidly pinpoint maintenance problems.** Globally, network outages cost the power and utilities sector \$169 billion, according to PwC. Using drones to quickly identify compromised power lines and other maintenance problems, utility companies can dramatically reduce outages. They can also use drones to spot deteriorating equipment before it actually malfunctions—and then take rapid action before their assets break down.
3. **Enhance employee safety.** Drones offer huge safety benefits, reducing the need for workers to climb towers, trim foliage near high-voltage equipment, physically assess damage after a natural disaster, or drive remote roads. With the close-up aerial images that drones provide, utilities can spot maintenance issues without the need to climb



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poles or physically access hard-to-reach equipment. Companies can identify problems around pipelines—for example dying vegetation that may indicate a methane leak. They can also monitor potential construction site hazards, helping project managers to mitigate safety risks before accidents occur.

4. Improve construction site monitoring. Using drones, project managers can obtain construction site imagery and data in real time so they can track changes and report on their day-to-day project progress. Whether it's reporting on the number of rigs at any one site, or documenting avoidance of endangered species set-aside areas, drones can make it easy to monitor and report on construction site activity.
5. Speed up site selection. Through the use of drones, the utility industry can make better siting decisions for transmission lines, pipelines, dams, solar farms, and wind farms. For example, one of the world's leading solar utilities uses drones to scope sites for new solar farms, cutting the cost of siting work while maximizing future energy input. In the same way, imagery and other data gathered from drones can help managers assess the impact of power plants, electricity transmission networks, and other infrastructure on the environment and local communities—helping to identify red flags before a site is chosen.
6. Strengthen environmental compliance. Using drones, utility companies can more efficiently achieve environmental compliance. For example, one engineering firm used drones to reduce its impact on wildlife and plants in sensitive habitat as it planned new transmission lines.
7. Monitor suspicious activity. Finally, utility companies can use drones to prevent trespassing, vandalism, and other crimes. Using drones, they can quickly spot damaged fencing. They can monitor for potential terrorist security threats. And they can search for illegal drug labs and other criminal activity in remote areas.

## Managing your drone operations

As you add drones to your operations, it's important to consider what software is needed to accompany their use. Drones are great at flying, but utilities also need to invest in software to make sense of all the photographic, GIS, thermal, and infrared data gathered by sensors and cameras mounted on them. In addition, they need to implement integrated management software, such as that offered by Skyward, to manage their personnel, fleet equipment, and flight planning in a single place.

As utilities make the digital transformation, drones offer a powerful way to improve their operations, while bolstering worker safety. Now's the time to make these unmanned aerial systems a part of your everyday operations. •



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## EasyLoad Hoist from National Fleet Products Features Double-Axis Positioning, a 45.5-Inch Boom and Lifts Up to 1,100 Pounds

National Fleet Products' EasyLoad Hoist stores inside vehicles at ceiling height, extending 3.79 feet and gliding up to 8 feet laterally, to put up to 1,100 pounds of lifting and lowering capacity precisely where it's needed.

National Fleet Products, a leading North American supplier of cargo lifting equipment, loading ramps and other aftermarket accessories for commercial vehicles, announced the unveiling of its new MAD EasyLoad Hoist. The quiet, powerful, easy-to-install 12-volt electric hoist is now in stock, and will be on display in booth 409 at the 2018 NTEA Work Truck Show in Indianapolis, Ind.

The MAD EasyLoad Hoist is the intelligent alternative to post-mounted cranes. The EasyLoad remains inside the vehicle, away from the elements, and can be stowed above shelving on either side of the vehicle or in the center of the cargo hold until needed. Its boom is easily positioned for the task at hand because it can move on two axes, sliding laterally up to 8 feet, depending on the vehicle, and extending up to 45.5 inches in length.

"The dual-axis MAD EasyLoad Hoist makes it easy for oper-

ators to lift and lower cargo with pinpoint accuracy because they don't have to worry about positioning the vehicle in exact relationship to a target," Steven Peterson, president of National Fleet Products, said. "The EasyLoad allows operators to navigate cargo through manholes and to position the winch for optimal load securement, even when the host vehicle isn't perfectly oriented."

A robust 12-volt, 100-amp electric motor drives the boom and winch action, lifting maximum loads at up to 2 inches per second, at lengths of up to 65 feet. Handheld controls are easy to understand and operate even with one hand, and an 8-foot cable enables operators to position themselves safely in relationship to cargo as the EasyLoad moves. Unlike most winches, the EasyLoad operates quietly, allowing verbal communication to continue even during its operation.

The MAD EasyLoad Hoist is simple to install, and only takes

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about four hours to do so. A low-profile tubular steel structure is easily configured to fit virtually any commercial van, service vehicle or box truck. The design transfers the load to the floor, and the four-legged configuration maintains structural integrity by attaching to the rear doorframe and interior structural members with just four brackets. Cast iron mounting feet secure the framework to the deck. The system is easy to wire, and a simple door switch prevents the hoist from operating when the vehicle is closed.

"The MAD EasyLoad Hoist is a smart new solution to an old problem," Peterson said. "It's truly a game changer in comparison to post-mounted cranes and other traditional lifting technology."

Unlike post-mounted cranes that can lose lifting capacity when fully extended, the MAD EasyLoad Hoist provides full-length boom travel with no loss of capacity. With its 45.5-inch boom extension combined with a 1,100-pound lifting capability, it also outperforms the majority of vehicle-based post-mounted cranes.

The EasyLoad not only offers better lifting characteristics, but it has superior loading capabilities as well. Unlike swiveling cranes that do well to simply position a load at the threshold of

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a cargo hold, the EasyLoad can take the load well into the cargo space, forward of the vehicle's rear axle, depositing it with its unique dual-axis precision.

The 1,100-pound capacity, heavy-duty EasyLoad Hoist weighs 330 pounds, minus its steel framework, which varies according to the vehicle it serves. Its boom is 90 inches in length when fully retracted, and its winch uses a three-sixteenth-inch steel cable. The light-duty EasyLoad Hoist can lift up to 550 pounds and weighs only 220 pounds, minus its steel framework. Its boom is just 75 inches in length when fully retracted, and it uses a .19-inch steel cable. Both systems are easy to maintain, requiring just one annual service interval and periodic cable inspections.

Parties interested in scheduling a demonstration of the MAD EasyLoad Hoist may contact National Fleet Products directly by calling (763) 762-3451 or by sending an email to [sales@nationalfleetproducts.com](mailto:sales@nationalfleetproducts.com). The EasyLoad Hoist is in stock now and available in the United States and Canada through the company's extensive distribution network of convenient distribution locations. Please contact National Fleet Products to locate a distributor near you.

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# Jarraff Announces New Jarraff All-Terrain Tree Trimmer with Exclusive Rotating Saw Head



Jarraff Industries recently unveiled a new Jarraff All-Terrain Tree Trimmer with updated design, new look, higher power output and improved efficiency. The significantly updated Jarraff features a patent pending rotating saw head design that allows the operator to rotate the blade assembly 180 degrees, an industry exclusive. A new touch screen information center gives the operator unmatched control, engine monitoring, high definition camera display and more. The new Jarraff features a Cummins 130 horsepower, Tier 4 engine that meets all environmental emission standards and mandates.

Jarraff President and CEO Heidi Boyum said, "Since the first Jarraff debuted in the late 1970s, Jarraff Industries has been dedicated to evolving with times and pushing design and innovation to meet the demands of the market by offering the best equipment available. This latest Jarraff model is a result of those continuing efforts. It's embracing technology, as well as a creative engineering team, to provide our clients with the safest, highest quality most efficient and productive product possible."

The Jarraff All-Terrain Tree Trimmer provides ROW maintenance contractors a dynamic field of operation. A rotary manifold offers a 360-degree plus range of motion as a standard feature. The unit also provides lateral tilt and 75-foot cutting height. Two four-way joysticks and fingertip controls offer optimal precision.

In addition, the Jarraff's cab is completely ROPS, FOPS and OPS certified. Full panel, lexan windows prevent distortion and provide a clear view of operations. The Jarraff adds safety to every job because workers never leave the ground.

[www.jarraff.com](http://www.jarraff.com) •

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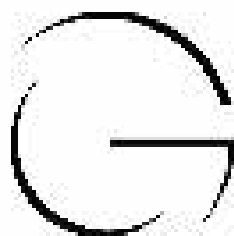
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# Klein® Tools Increases Cutting, Crimping and Drilling Power with Battery-Operated Tools

Klein Tools, for professionals since 1857, brings over 160 years of quality, durability and expertise to a new line of battery-operated tools, including a variety of cable cutters, crimpers and an impact wrench. Engineered to help linemen work more efficiently, these tools have the performance and durability professionals expect from Klein – powered by DeWALT® lithium-ion batteries.

## **Battery-Op 7-Ton Cable Cutter and Crimper Kit (Cat. Nos. BAT20-7T14, 7T5)**

- 7-ton hydraulic force cuts and crimps a larger capacity faster than similar models on the market
- One tool with six different heads depending on what the job requires
- Cuts and crimps copper, aluminum, ACSR, EHS Guy wire and Grade 8 steel bolts
  - Includes tool, three cutting jaws, three crimping jaws, two batteries, charger and bag
- Cuts 3/8" EHS Guy Wire and Grade 8 bolts
  - Includes cutting jaw, two batteries, charger and bag
- Green light indicator confirms when a good crimp has been made
- Two work lights to help illuminate darker areas
- Compatible with industry standard W-style dies
- Replacement blades and additional 7-Ton Cable/Cutter and Crimper products sold separately
- Powered by DeWALT 20V lithium-ion batteries
- DeWALT is a registered trademark of the Black & Decker corporation

## **Battery-Operated 12-Ton Crimper Kit (Cat. No. BAT20-12T1651)**

- 12 tons of force crimps copper, aluminum and ACSR
- 360-degree rotating head provides flexibility in positioning
- Green light indicates full pressure to confirm when a good crimp has been made
- Four working lights to help illuminate dark work areas
- Compatible with industry standard U-style dies
- Safety lockout switch for extra safety on the job
- Includes tool, two batteries, charger and case
- Powered by a DeWALT 20V lithium-ion battery
- DeWALT is a registered trademark of the Black & Decker corporation





**Gear-Driven Cable Cutter Kits (Cat. Nos. BAT20-G1, G10, G2, G7)**

- Cuts copper and aluminum or ACSR cable in both open and closed-jaw styles
- Closed-jaw style provides higher cutting capacity
  - o Cuts up to 600 MCM copper, 1500 MCM aluminum and 1590 MCM ACSR cable
  - o Cuts 750 MCM copper and 1500 MCM aluminum cable
- Open-jaw style is ideal when working in tight spaces
  - o Cuts up to 400 MCM copper, 900 MCM aluminum and 795 MCM ACSR cable
  - o Cuts up to 600 MCM copper and 1000 MCM aluminum cable
- Safety lockout switch for extra safety on the job
- Two work lights to help illuminate darker areas
- Gear-Driven Cable Cutter Kits include tool, two batteries, charger and bag
- Replacement blades available
- Powered by DeWALT 20V lithium-ion batteries
- DeWALT is a registered trademark of the Black & Decker corporation

**Battery-Operated Impact Wrench Kit, 7/16" (Cat. No. BAT20-7161)**

- Up to 500 ft-lbs of maximum torque makes driving fasteners into wood, metal and concrete easier
- 7/16" (11mm) quick-release chuck increases efficiency
- 0-1900 RPM variable speed trigger provides better control
- Safety lockout switch for extra safety on the job
- Brushless DC motor provides reliable drilling action and a longer tool life
- Includes batteries, charger and bag
- Powered by DeWALT 20V lithium-ion batteries
- DeWALT is a registered trademark of the Black & Decker corporation

"Klein's new line of battery-operated tools helps linemen work more efficiently by reducing time and effort spent on each task," says Kozeta Topchian, product manager at Klein Tools. "The complete product line is built to be Klein tough, standing up to the jobsite challenges professionals face every day. Powered by DeWalt lithium-ion batteries, these tools help get the job done with greater cutting, crimping and drilling power than alternative models."

For more information, visit [www.kleintools.com/new-products](http://www.kleintools.com/new-products) or search for #NewKleins on social media.

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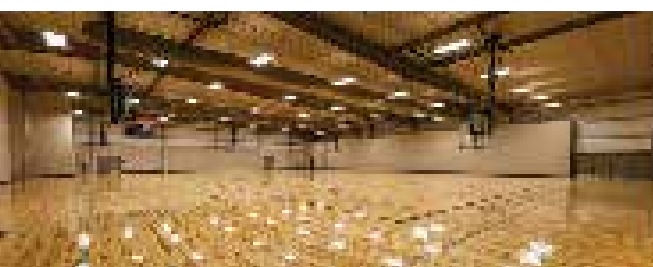
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A Tethered Tool System for Applications  
Involving Work at Height

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## SAVE TIME AND MONEY

Engineered attachment points don't interfere with the functionality of the tools, and are more durable than simple "add-ons" that require frequent maintenance or replacement.

## BEAT THE STATISTICS

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.

## RETAIN CONTROL

Our modular approach means you can configure the tools/holsters based on a user's personal preference, while providing a system that meets your safety standards.

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# HoistCam's New Low Profile and 360 Degree Rotation Delivers Better View of the Load

Netarus LLC, maker of the HoistCam™ remote camera monitoring systems, announces the Low Profile HC140 (Gen3) camera for applications where placement of the camera is critical for viewing the load. "An upgraded camera with a new connection point and 360 degree lens rotation provides the operator the flexibility to position and orient the view at virtually any angle that suits the needs of the application," said Chris Machut, Chief Technology Officer.

The lower profile design was achieved by relocating the connector for the camera so that it attaches at the Video Transmission Box (VTB). With new 360 degree rotation, the camera orientation can be directed to the exact perspective needed by the operator. For example, if the crane's hook block is located 90 degrees to the left, the lens can be oriented 90 degrees to the right so the view of the camera on the monitor is in the correct orientation. Or, when mounted on other types of equipment, such as a rubber tire gantry or straddle carrier, it is possible to orient the camera for a view of the pins on the spreader bar.

When the application changes, the operator can readjust the camera's perspective by manually loosening a screw on the camera, adjusting the camera's orientation, and re-tightening the screw. Further increasing the flexibility of the camera is a unique magnetic mounting system allowing the camera to be installed at various locations on the equipment as needed for the best possible view of the load.

Other improvements found on HC140 (Gen3) are an upgraded camera, delivering wide angles and infrared illuminators for night time viewing. Plus a higher quality housing and nitrogen filled enclosure provides the HC140 with an IP69K rating for optimum performance when fully submerged in water or when working in high operating temperature environments, up to +50°C.

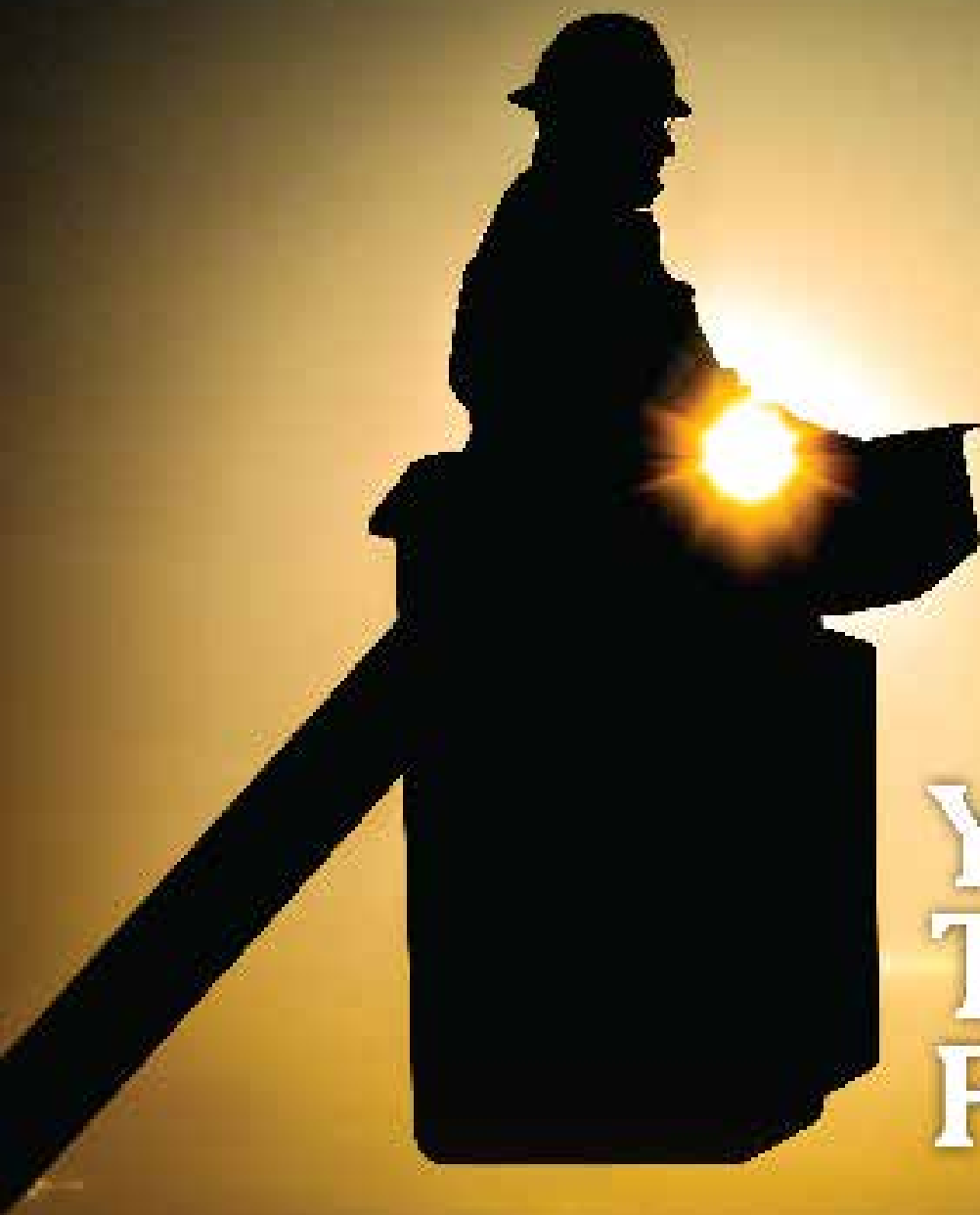
"Our customers were asking for a camera solution for complicated load handling scenarios. On its own, the HC140



(Gen3) offers that flexibility, which is further maximized when the setup is customized for unique situations, such as having multiple units feed to a single split screen or when special power supply requirements, such as solar generated power, must be met," said Machut.

Optional remote monitoring and recording with HoistCam™ Director enables construction managers to view and manage the jobsite from afar. Information about current real-time job progression improves communication with other contractors and work flow. HoistCam Director is also useful for risk management and accident investigation. HoistCam Director transfers video and images to a mobile digital video recorder (MDVR), which captures and stores data from up to eight HoistCam cameras. The MDVR can be configured to automatically upload to the cloud for analysis or archive.

[www.hoistcam.com](http://www.hoistcam.com) •



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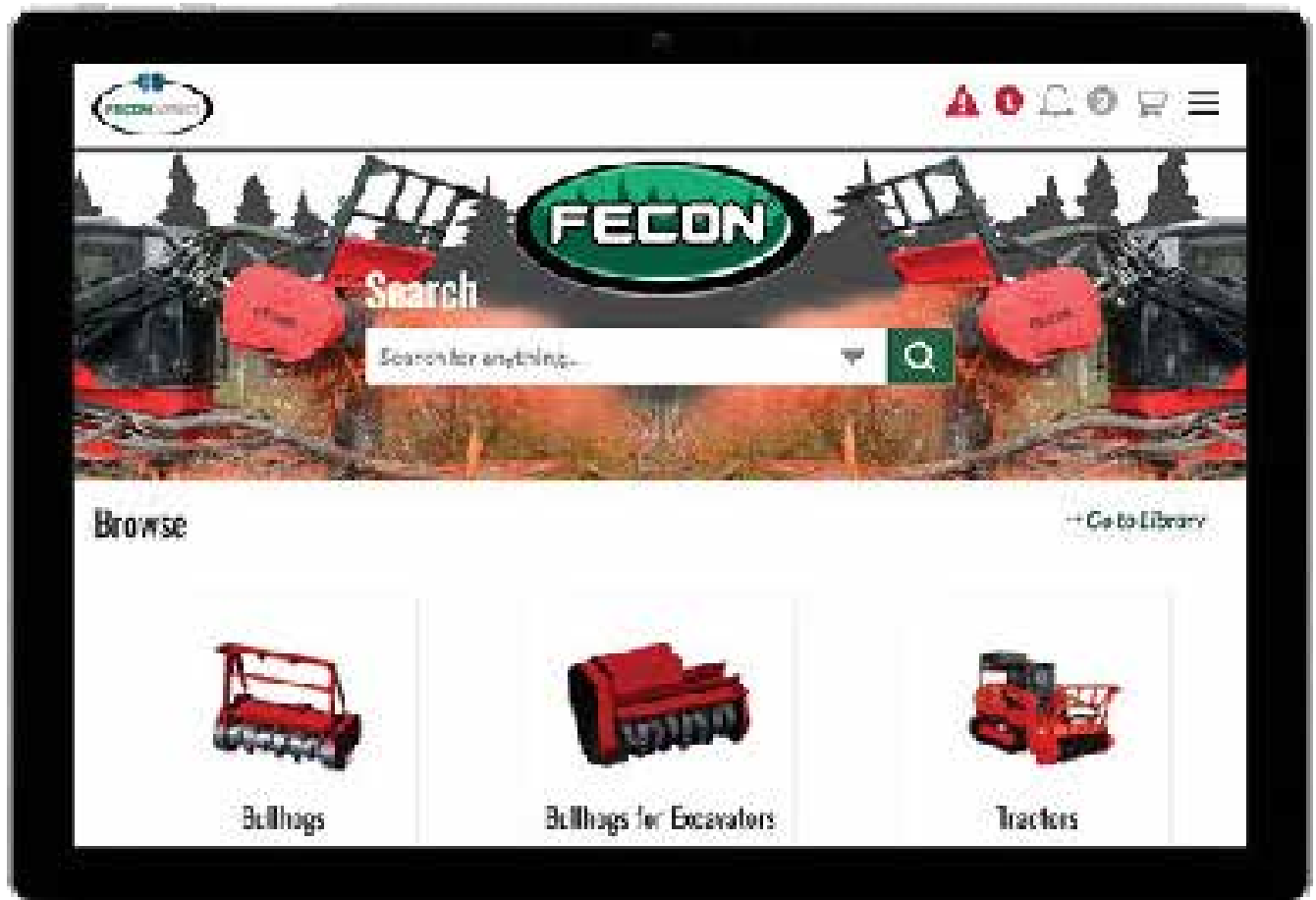
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## Fecon Customers Now Have Direct Access to Fecon Connect

Fecon Inc. a leading manufacturer of forestry products, announces today, that effective immediately, it will begin allowing End User customers access to its previously “dealer only” web portal called FeconConnect. Customers registering their products with Fecon will now have access to the same technical documentation that was formerly exclusive to Authorized Dealers.

Vice President of Product Support, Kevin McCann says “We are responding to the demands of the market. Customers increasingly want access to a self-service platform that empowers them to be more informed about their products.” Fecon believes this approach will be beneficial for both customers and dealers. When a customer contacts their dealer’s Parts Department to order spare parts, having the correct part information, shortens the fulfillment process creating an overall better customer experience.

The process is simple. Fecon attaches a sticker with a QR code to every machine they sell. A customer can scan the QR code with their mobile device or type in the web address from a computer. After being routed to a webpage where they can register their product, a Customer Service Representative will e-mail a username and password to the customer allowing access to FeconConnect. Once inside, customers need only enter their serial number into the search bar and the documentation for their specific machine will be shown. McCann says “Our goal at Fecon is to create an effortless experience for our customers. We are constantly investing and upgrading our online products to deliver more meaningful content in order to assist our customers with their product support needs.”

[www.fecon.com](http://www.fecon.com) •

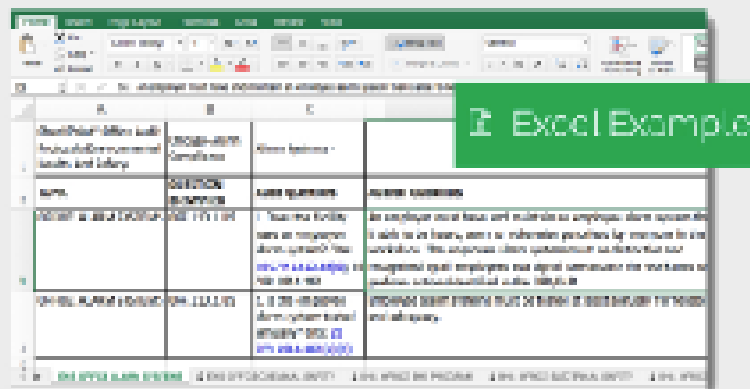
# i-Comply CHECKLISTS™

Office & Data Centers

## Got Sales Offices and Data Centers Around the Globe?

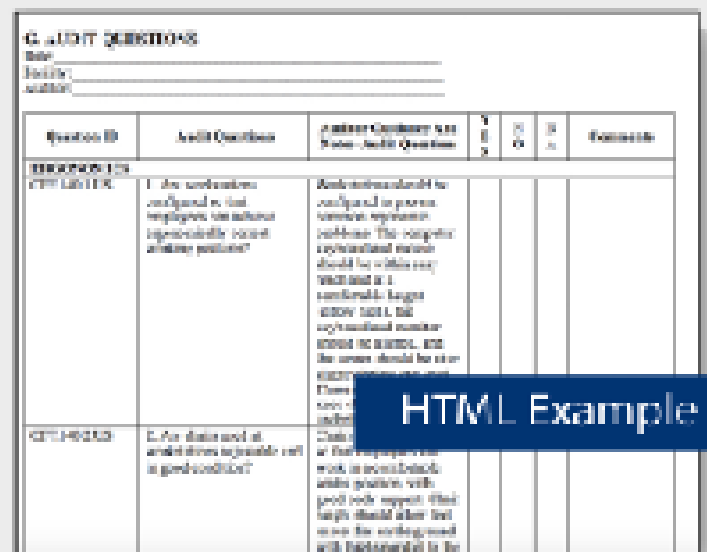
Too **many** sites? Too **hard** to coordinate? Too **costly** to send auditors?  
Having **difficulty comparing results** across the locations you have inspected?

If you said **yes** to any of these questions, how can you be sure that  
those sites are in compliance with your Global EHS compliance and  
risk programs?



**Excel Example**

| A                                                                                | B                                      | C                 | D                 |
|----------------------------------------------------------------------------------|----------------------------------------|-------------------|-------------------|
| Identification: Office built<br>for use in commercial<br>residential and library | Checklist: Office<br>Checklist: Office | Checklist: Office | Checklist: Office |
| Item                                                                             | Checklist: Office                      | Checklist: Office | Checklist: Office |
| Checklist: Office                                                                | Checklist: Office                      | Checklist: Office | Checklist: Office |
| Checklist: Office                                                                | Checklist: Office                      | Checklist: Office | Checklist: Office |



**HTML Example**

| Question ID | Audit Question                                                                                               | Answer/Response/Yes/No/Not Answered                                                                                                                                                                                                                                                                                                                                                             | Y | N | NA | Comments |
|-------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|----|----------|
| 0000000001  | 1. Are workstations<br>configured to limit<br>employee exposure<br>to electromagnetic<br>interference (EMI)? | Workstations should be<br>configured to prevent<br>employee exposure<br>to electromagnetic<br>interference. The computer<br>equipment should be<br>shielded by a Faraday<br>cage or a shielded<br>room. The computer<br>equipment should be<br>shielded by a Faraday<br>cage or a shielded<br>room. The computer<br>equipment should be<br>shielded by a Faraday<br>cage or a shielded<br>room. |   |   |    |          |
| 0000000002  | 2. Are data and all<br>other items regularly<br>checked for<br>security?                                     | Data and other items<br>should be regularly<br>checked for security.<br>Data and other items<br>should be regularly<br>checked for security.<br>Data and other items<br>should be regularly<br>checked for security.                                                                                                                                                                            |   |   |    |          |

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## Emerson Targets New Industries

Emerson is targeting the food, beverage and pharmaceutical industries with the new 4QSS liquidtight fittings featuring 316 stainless steel for dependable performance that will last decades in wet, corrosive locations.

Engineered for applications where sanitation is a critical concern, the UL Listed fittings securely connect flexible metallic electrical conduit while completely sealing off liquids, vapors and solids. A nickel-plated ferrule provides maximum surface contact with longer, more pronounced threads to ensure pull-out protection and prevention of tight bend conduit “pop-out” to help minimize costly replacements and service calls.

“The 4QSS delivers a host of advantages that our competition simply can’t match,” said Rick Jones, Product Manager at Emerson. “For one, we’ve used super-bright 316 stainless steel instead of the less rugged 304 stainless steel found in our competition’s fittings. And two, we offer better value by including a sealing ring and locknut with the package, eliminating the need for separate purchases. Finally, we are offering the fittings in the most popular sizes and configurations to meet market needs.”

[www.emerson.com](http://www.emerson.com) •



## HD Electric Offers New Underground Cable Fault Tester



HD Electric Company, a Textron Inc. company, now offers its new Underground Cable Fault Tester, the UCT-8, a lightweight one-piece tool that is used to test underground de-energized primary shielded voltage cables for faults.

“The most significant advantage is that the tool will digitally analyze the data gathered during a test to declare a cable ‘good’ or ‘bad’ with zero interpretation required on the part of the end-user,” said Eli Johnson, Electrical Engineer at HD Electric Company. “To give this some context, previous generations of this particular tool required the user to observe an analog needle gauge and form a judgement based on its movements,” added Johnson. “So a bad cable may show up as a needle ‘jumping around’ during the test, or landing on a value that was slightly higher than expected. The UCT-8 takes all the guesswork out of underground cable fault testing.”

Test results for underground DC leakage are clearly displayed as an analog bar graph along with an indication of a good or faulted cable.

[www.HDElectricCompany.com](http://www.HDElectricCompany.com) •

## Sherman + Reilly Launches In-Stock Equipment Viewing

Sherman + Reilly, Inc., a Textron Inc. company, a leading manufacturer of power line stringing and installation equipment, launched a new online site allowing customers to browse ready-to-ship equipment.

With the click of a button, the company’s experienced sales team will be ready to assist with the final purchase and answer any product specific questions, providing customers fast access to the equipment they need to complete the job.

“We are excited to be expanding our digital footprint to provide customers the information they are looking for,” said Jim Zima, General Manager, Sherman + Reilly. “We continue to garner feedback to improve our customer experience and this is the latest example of that commitment.”

Sherman + Reilly equipment is designed for underground and aerial transmission, and distribution of electrical power and communications systems. The company will update instock equipment, providing data on the products available.

[www.shermanreilly.com](http://www.shermanreilly.com) •



# **EFFICIENCY PRODUCTION**

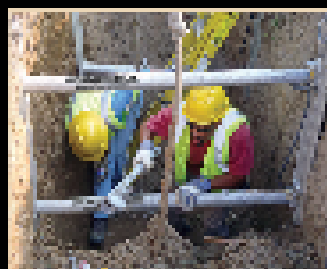
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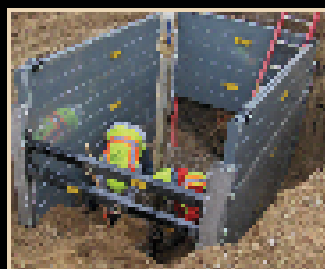
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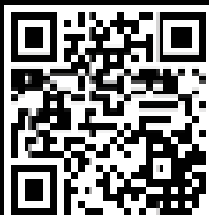


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| Hogg & Davis          | 7      | <a href="http://www.hoggdavis.com">www.hoggdavis.com</a>                           |
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| Keystone Electronics  | 8      | <a href="http://www.keyelco.com">www.keyelco.com</a>                               |
| Krenz Vent            | 2      | <a href="http://www.krenzvent.com">www.krenzvent.com</a>                           |
| Miller Safety         | 9      | <a href="http://www.electricalsafetysupply.com">www.electricalsafetysupply.com</a> |
| Morooka               | BC     | <a href="http://www.morookacarriers.com">www.morookacarriers.com</a>               |
| MSA Safety            | 17     | <a href="http://www.msasafety.com">www.msasafety.com</a>                           |
| Nesco                 | IFC    | <a href="http://www.nescorentals.com">www.nescorentals.com</a>                     |
| Platinum Tools        | IBC    | <a href="http://www.platinumtools.com">www.platinumtools.com</a>                   |
| Prinoth               | 13     | <a href="http://www.prinoth.com">www.prinoth.com</a>                               |
| R & R Lotion          | 20, 21 | <a href="http://www.rrlotion.com">www.rrlotion.com</a>                             |
| Rayco                 | 3      | <a href="http://www.raycomfg.com">www.raycomfg.com</a>                             |
| Regscan               | 33     | <a href="http://www.regscan.com">www.regscan.com</a>                               |
| Ring Power            | 31     | <a href="http://www.ringpower.com">www.ringpower.com</a>                           |
| Snap On Industrial    | 29     | <a href="http://www.snapon.com">www.snapon.com</a>                                 |
| Terex                 | 19     | <a href="http://www.terex.com">www.terex.com</a>                                   |
| Tie Wraps             | 38     | <a href="http://www.tiewraps.com">www.tiewraps.com</a>                             |
| Timberwolf            | 15     | <a href="http://www.timberwolfhandcleaner.com">www.timberwolfhandcleaner.com</a>   |
| Time Versalift        | 1      | <a href="http://www.versalift.com">www.versalift.com</a>                           |
| TSE                   | 39     | <a href="http://www.tse-international.com">www.tse-international.com</a>           |
| VP Building Solutions | 28     | <a href="http://www.vp.com/ad/ped">www.vp.com/ad/ped</a>                           |
| Warehouse Equipment   | 4      | <a href="http://www.warehouseequipment.com">www.warehouseequipment.com</a>         |



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Live  
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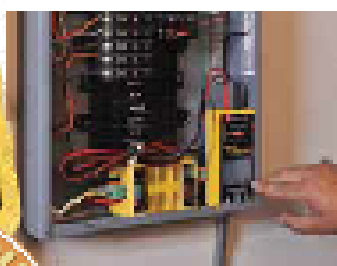


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For the first time, gives electricians the ability to monitor and locate faults on a live circuit. Ideal added tool for diagnosing the faults and the circuit breaker tripping.



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- Detects 5 to 40A
- Tripped line and under the load occurred

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  - Ground chisel blades on 15/22 & 22/22 tools
  - Safety strip rest for stripping 15/22 and 22/22
- 15/22/22 ProStrip 10/20 solid / 12-22 stranded  
15/22/22 ProStrip 10/20 solid / 12-22 stranded

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- With 2" and 3" diameter
- With 1" and 2"

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