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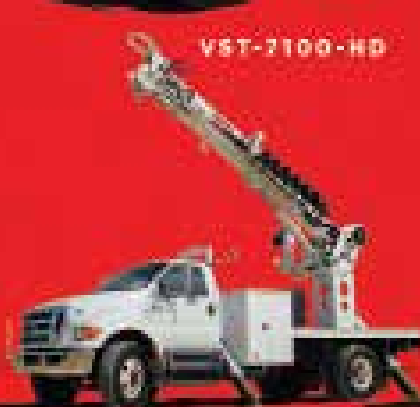
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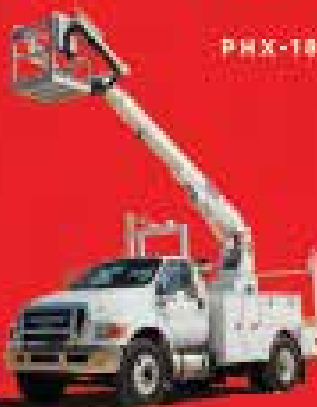
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## Jay Leno Named Work Truck Show 2016 Keynote Speaker



Jay Leno, comedian, author, car builder and longtime host of “The Tonight Show with Jay Leno,” will serve as keynote speaker at The Work Truck Show® 2016. His address will take place Thursday, March 3, as part of the President’s Breakfast & NTEA Annual Meeting.

The Work Truck Show, North America’s largest work truck event, is produced annually by NTEA – The Association for the Work Truck

Industry. The 2016 event will be held March 2–4 at the Indiana Convention Center in Indianapolis, Indiana. Educational programming, including the Green Truck Summit, begins March 1.

Please note: A ticket is required to attend the President’s Breakfast. Tickets cannot be purchased until registration for The Work Truck Show 2016 opens in October. Visit [ntea.com/upcomingevents](http://ntea.com/upcomingevents) to sign up for email notification when registration is available.

The Work Truck Show brings together more than 11,000 truck fleet managers, dealers and equipment distributors annually. It features the newest vocational trucks, vans, components and equipment, as well as educational sessions tailored to help attendees better run their companies.

[www.worktruckshow.com](http://www.worktruckshow.com)

## AEMC Instruments Appoints Chad Dugas Southeast District Sales Engineer

AEMC® Instruments is pleased to announce the appointment of Chad Dugas to the new position of Southeast District Sales Engineer. He will be responsible for sales covering the southeast territory (NC, SC, GA, FL, TN, MS, AL). He will be based out of the Orlando, FL and will report directly to George Vlachos, Eastern Regional Sales Manager.

Chad joins AEMC® with over 5 years’ technical experience as a field applications engineer. He holds a Bachelor of Science degree in Electrical Engineering.



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## Verisae, Inc. Hires Karl Hohmann as V.P. of Sales, Utilities

As part of its expanding footprint and commitment to the utility and telecommunications industries, Verisae, Inc., the leading global provider of mobile workforce management solutions, has hired Karl Hohmann as Vice President of Sales, Utilities.



Hohmann brings more than 20 years of experience in sales and channel development with enterprise technology solutions to Verisae. Prior to joining Verisae, he held various leadership roles within sales and channel management at ClickSoftware, now part of Francisco Partners Management L.P., and Diabsolut, a technology implementation and consulting firm. Most recently, Hohmann was the Vice President of Sales at ServicePower, where he increased the company’s success in both direct sales and through its partner network.

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## The Green Truck Summit at The Work Truck Show 2016



There’s no reason to reinvent the wheel when considering how clean vehicle technology and energy options available today could impact the future of your commercial truck operations. Learn from the experiences of fleet managers for two of the nation’s largest vocational fleets as they share what’s working — and what isn’t — at the Green Truck Summit.

These real-world insights and a preview of the green technologies of tomorrow will be highlighted at the Summit, the premier alternative fuels and advanced technology conference held annually in conjunction with The Work Truck Show®.

Produced by NTEA – The Association for the Work Truck Industry, the 2016 Green Truck Summit takes place March 1–3 at the Indiana Convention Center in Indianapolis, Indiana. Work Truck Show exhibits are open March 2–4.

[www.ntea.com/worktruckshow/educationalsessions/](http://www.ntea.com/worktruckshow/educationalsessions/)

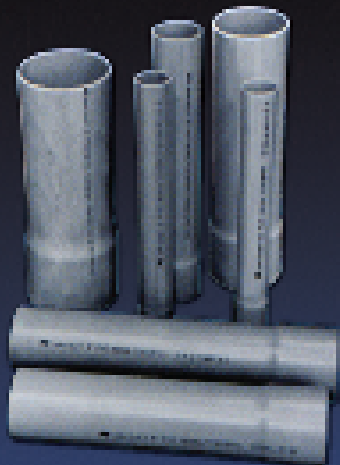


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## Northwest Parts & Equipment Becomes Takeuchi-US Dealer

Takeuchi-US, a global innovation leader in compact equipment, has announced Northwest Parts & Equipment as a new dealer, serving western Montana. The full-service dealer has three locations in Montana, including their headquarters in Columbia Falls and smaller stores in Butte and Missoula. Northwest Parts & Equipment will carry Takeuchi excavators, skid steer loaders, track loaders, and wheel loaders.



Founded in 1981 by Gary and Peggy Hurd, Northwest Parts & Service is a family owned company and serves the logging, mining and construction industries. The service department is staffed with factory-trained technicians capable of working on most makes and models of equipment either at their shop or at the customer's location. The parts department has the product and expertise to help get the most value for the customer's dollar with either new, used or rebuilt replacement parts.

"We are excited to add Takeuchi to our line and we believe that they are a great fit," said Chris Hurd, Marketing Manager at Northwest Parts & Equipment.

[www.takeuchi-us.com](http://www.takeuchi-us.com)

## The ALL Family Fleet Grows

The ALL Family of Companies announced it has closed the deal on four (4) Link-Belt rough-terrain cranes and one (1) Grove all-terrain crane, growing its fleet to meet customer demand in several geographic markets. The Link-Belt RTs, in a range of lifting capacities, will go to ALL branches in Pennsylvania, Tennessee, and Wisconsin. The Grove AT will become part of the fleet housed in North Carolina.

The four Link-Belt RT cranes include one 65-UST RTC-8065 telescopic boom truck crane, going to ALL Crane Rental of Pennsylvania; one 110-UST telescopic boom RTC-80110 for ALL Crane Rental of Tennessee; one 130-UST RTC-80130 Series II and one 150-UST RTC-80150 Series II, both going to Wisconsin to support the four Dawes Rigging & Crane Rental branches. The 550-UST Grove GMK7550 is slated to serve North Carolina's two ALL Carolina branches in Raleigh and Wilmington.



All five cranes will be delivered by the end of this year, work-ready to serve customers for 2016.

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# ROWandLandClearing SolutionsforToday's Contractor





In recent years, the growing popularity of mulching machines has changed the way many contractors and utilities approach their ROW clearing projects. The array of mulching solutions available in today's market offer many advantages over traditional methods of hand-clearing and brush hogging in terms of productivity, safety, and cost. Additionally, mulching vegetation leaves a cleaner jobsite that is more aesthetically pleasing to landowners and is free of left-behind obstacles such as stumps and logs. The residual mulch forms a naturally decomposing bed of material that helps to protect the ground from erosion and inhibits re-growth.

Why consider switching to a mulching machine over traditional methods? First, consider the scope of work and the challenges for your particular project. What is the timeline? What kind of terrain? How long has it been since the ROW was last cleared? I often hear from contractors that they are dealing with tight timelines and ROWs that are overgrown and overdue for clearing. They say the line was supposed to be cleared on a 5 year schedule but it's been 7 years plus since the last clearing. This means the material is heavier and denser, with larger trees that need removed. If you also have terrain challenges, such as hills, ravines, and wet or snow-covered areas, you likely have a problem that's best solved by a dedicated mulcher. A dedicated mulching machine excels in these types of environments because of their cutting power, maneuverability, and ability to deal with challenging underfoot conditions.

In a typical electric ROW scenario, you're trimming the overhead limbs first and letting the trimmings fall into the ROW, then mulching everything, both the trimmings and the undergrowth, at one time. When the undergrowth on the ground is already dense and you add in those trimmings from overhead, the result is often very dense wall of material that is challenging for tractors with brush hogs and often goes beyond their intended duty cycle. Simply put, tractors just aren't designed to operate in these conditions. Hand crews are slow and create a myriad of safety issues. By contrast, a purpose built mulcher is equipped to overcome this challenge. The front-mounted mulcher heads allow the operator to drive forward into material. The mulcher heads can be lifted several feet off the ground, making it easier to attack a tall

brush. The cabs and engine compartments are designed to protect their contents and keep debris out.

There are a number of purpose-built mulchers on the market today that are well-suited for ROW applications. At Rayco, the most popular models are the C100 and C200 models, which are 99hp and 200hp respectively. These machines are available with different track and/or tire configurations to fit almost any environment. The size and maneuverability of these machines lend well to working on narrow ROW applications and can be easily transported to and from the job. They're powerful enough to increase productivity and reliable enough to work in a hostile environment day in and day out.

Why a dedicated, purpose-built mulcher? Many people take for granted that putting a mulcher on the front of a compact track loader (CTL) makes it a mulcher. It's easy to find any number of CTL's that can be fitted with mulcher heads. Some even offer "Forestry Packages" that are said to make the machine suited for mulching work. While these machines are often adequate for light-duty mulching and



have the added benefit of accepting multiple attachments, the user should note the differences between CTL's with mulcher heads and machines that are truly purpose-built as mulchers. The rigorous duty cycle of the mulching task requires heavy duty components that aren't often apparent until you dig deeper. Here are a few examples:

A purpose-built mulcher typically has a hydrostatic system for operating the mulcher head that runs at higher pressures than would be found on a normal CTL. This offers more power at the mulcher head and faster recovery times when the mulcher slows down. The hydrostatic pumps and motors used on purpose-built machines are typically heavier, and more robust, making them suited to the demands of the application.

Purpose built mulchers offer better cooling systems that allow for continuous operation under demanding conditions. They are usually larger coolers with deep waffled debris screens that allow for debris build-up without overheating the engine and/or hydraulic systems. Because of the continuous operation of mulcher heads,



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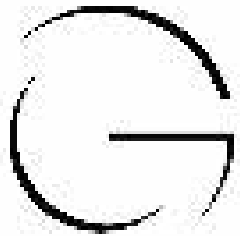






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they require higher levels of cooling than most other attachments that are typically used on CTL's. Mulching inherently creates opportunity for dust, leaves, and other debris to plug up cooling systems, so extra cooling capacity is critical.

The nature of the mulching requires purpose-built mulchers to employ guarding that not only protects the machine and its critical components from damage from limbs, trees, and the like, but also ensures that sticks, leaves, and other debris doesn't enter the engine compartment where it can cause a

fire within the machine. Purpose built mulchers eliminate exposed hoses that can be damaged during mulching operations and employ heavy steel guards around areas frequently exposed to damage from operating in the woods.

The operator cabin of a purpose-built mulching machine is typically designed to be more protective of its operator than a normal CTL. Not only does a mulcher's cab serve as roll-over protection, but they also should protect from penetrating objects, such as limbs and sticks that may swipe or poke the cab. Rayco's C100 models are equipped

with front doors that have steel grills plus 1.25-inch thick lexan to protect the operator from flying debris. By contrast, a typical CTL would have 1/2-inch thick lexan front doors and no steel grill. The purpose built mulchers are also equipped with multiple escape paths in the rooftop and/or rear window for the operator to exit the machine in case of emergency.

In addition to the above, there is also the issue of the correct drive system for the application. While most CTLs employ rubber tracks, purpose-built mulchers can offer options. For example, Rayco's C100 series consists of 3 different models to allow the contractors the choice of steel tracks, rubber tracks, or rubber forestry tires. While steel tracks offer the highest degree of durability, some prefer rubber tracks to make it easier to frequently cross roadways. Tires are a good solution for areas where the terrain is flatter and/or where soil conditions are not conducive for tracked undercarriages.

In summary, mulching machines are changing the way ROW clearing is being done. Their popularity is increasing and their use is making contractors more productive, more profitable, and helps to keep their workers safe. The market has responded with a number of product offerings that help today's utility contractor to find the right solution for his mulching needs.

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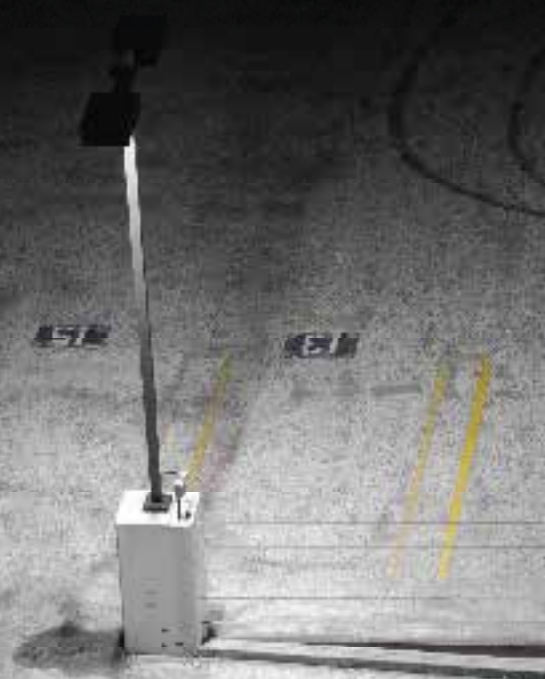
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# The Making of a Lineman Boot



Over the last few decades, Hoffman Boots has provided a variety of lineman boots for utility workers and cable men. Depending on where you live and what conditions you work in can also make choosing a boot difficult. For example, some locations have four seasons and a person is faced with choosing a boot that will perform well in all different types of weather. Others are located in milder weather or consistent temperature ranges making their choice a bit easier. But what exactly makes a boot a lineman boot? What features are found on a lineman boot that set it apart from other boots? In this article, I will go over a few different lineman boots that are manufactured by Hoffman's and point out the features found in them.

First off, what makes a boot a lineman boot? There are a few distinctive features that are normally found. The first and probably most important is the shank system that provides added support to the arch of the foot while climbing. Hoffman's uses what they call their "Dual Steel Shank System". Not only does the boot have a standard "ladder" shank in the boot but a second 4 ¾ inch triple ribbed shank is added. This adds incredible support and comfort while on the pole. All of Hoffman's lineman style boots feature the dual steel shank system.



The height on a lineman boot can vary. The 16" lineman boot use to be the standard in the industry but now 6" and 10" boots are more common. When going to a 6" boot, a more supportive upper is very important. Many have chosen to gravitate towards mountaineering style boots with stiffer midsoles. These boots can provide adequate support and offer benefits like less weight and cooler in the summer months. One of the fastest growing products in the Hoffman line is the 6" San Ramon boot. Hoffman's adds their dual steel shank technology to the upper of this boot made by Meindl out of Germany. The combination of a mountaineering boot with added arch support has been a big hit. A one piece leather upper and an added rubber rand around the boot make it extremely durable. It is available with a single shank for those who do not climb much or the dual shank system for those who do. It is also



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available in a plain toe or safety toe versions that are EH rated. A 10" version and an insulated version are also available.

Another popular style of boots that is found in many line yards across the US is the Hoffman Powerline boot. The Powerline family of boot features many different models to choose from. The most popular features a combination of a leather and Cordura upper. This adds breathability to the boot and requires very little break in time. All Powerline boots feature a water resistant bootie, dual steel shanks and a variety of heights. Other options include an all leather upper, available insulation and plain or composite toes with EH ratings. These boot are available in 10" and 16" heights.

When choosing a lineman boot, there are many different options to choose from. Choose a boot that is best suited for you and what conditions you work in. Remember that the arch support is important so choose a boot that will provide plenty of support. If you need help choosing a boot or have questions in general, call Hoffman Boots at 1-800-925-1599 and their friendly staff can answer questions for you or log onto [www.hoffmanboots.com](http://www.hoffmanboots.com) to look at the variety of boots offered.

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## Line Ward Corporation

In today's world, it seems that change is the constant. Technological advancements keep everyone on edge as we attempt to keep up. How many times have you said to yourself, I wish things could be like they used to be, simple and easy to use? Line Ward Corporation in Buffalo, NY, finds it comfortable to be in the middle of these two worlds. Line Ward has been a fixture in the constantly changing industry of telecommunications but has maintained that simple but effective idea that most people over 50 reminisce about. Line Ward manufactures the L2 Line Layer which was designed for installation of telecommunication lines to the home. Their L2 model is an updated version of the original L1 which was introduced in 1971. Even though the material being buried has progressed from the basic 2 pair copper lines of the 70's to the latest fiber optic technology, changes to the line layer have been relatively minor because of the old adage, if it ain't broke, don't fix it.

"The L2s ease of use and quick learning curve for our employees", is one of the things that Joe Parda of Westfield Gas & Electric likes about the L2 Line Layer. Westfield Gas & Electric has recently started a pilot program to supply high speed internet to their existing gas and electric customers in Massachusetts. Westfield installs a micro duct which will protect the fiber optic cable 10" - 12" deep, typically in established lawns. Parda, a 30 plus year veteran of the industry states, "the L2 provides an improved company image and assuredness to our customer that we are providing these services with less intrusion and causing the customer no continued maintenance, such as watering sod or dealing with a sinking trench after installation."

Line Ward is a second generation family owned business that supports their customers the old fashioned way. No phone prompts or voice mails when you call the home office for sales, parts, or service. You get expert technical or operational advice from the same people who have built, repaired, and operated the equipment for more than 35 years. Joe Parda highly

recommends Line Ward saying, "Working with Line Ward is fantastic and I would recommend them, not just because of the equipment but also because I know I can count on them for service and standing behind what they do."

Ken Caffey of Arlington Cable in Arlington, TX agrees. He says "they are great people to work with and getting parts is easy". Caffey has been using Line Ward equipment for more than 20 years. His contracting company buries service drops for AT&T and Suddenlink Cable. He runs a fleet of larger equipment including Directional Drills and Vibratory plows, but likes the advantages the L2 drop plow offers such as the ability to bore with the optional boring attachment and that the L2 does not tear up the grass, keeping restoration to a minimum.

North East Pennsylvania is not an ideal area to do underground work of any type due to its rugged terrain; however NEP Telephone Co. has found that using the L2 to install their underground fiber drops was a vast improvement over the traditional trencher method that they had been using. When using the trencher, restoration was the most tedious part of the job as they would often have to carry away buckets of rocks that had been pulled from the ground. The L2 leaves a better finished product and does the same work as a larger machine while getting into places that those machines can't.

The high demand for high speed internet is creating opportunity for many in the industry and Roger Gustavel of Line Ward says that is true for Line Ward as well. "We are seeing calls come in for equipment from all over the country. It doesn't stop there either as fiber to the home projects are going on worldwide. A lot of our sales the past 2 or 3 years has been in Canada and this past year we established a new dealer in Sweden. The potential there looks good and we are gearing up for another big year".

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*To make it really dangerous, add some rain or snow, maybe a little oil or any kind of machine malfunction. Relying on the parking brake to hold a heavy machine in place on a steep deck is another unnecessary risk.*

*Retriever eliminates those risks, while speeding the loading/unloading process.*

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**RETRIEVER** by VERSATRAN<sup>INC.</sup>

# Selecting The Right Bit & Motor For The Job

How do you select the right bit and motor for the job? It may be the most difficult decision you make as a professional drilling contractor, engineer, or technical specialists.

Time is money, whether it's a vertical drill or HDD, the project's stakeholders demand efficiency, dependability, and reduced non-productive time (NPT). So, how do you begin to meet the stakeholders' goals?

The project's success starts with selecting an effective and dependable drill bit then enhancing its performance with an excellent motor, this is the segue to optimizing a swift, hassle free drilling operation. So, how do you know which bit works and which doesn't? First, determine what formation(s) will be drilled, the compressive strength, and composition. Second, what Rate of Penetration (ROP) is needed to achieve the project's timeline and reduce the NPT? Thirdly, what motor will provide an increased torsional capacity for optimized force?

Traditionally, drilling companies used rotary cones but their inefficiencies would seem to make them almost obsolete with today's technologies. Why should you be forced to choose which bit might work best, then worry when the heads are lost from the bearings locking up, or even worse, losing the cone from the reamer and having to fish it out if it's even possible. Cone loss leads to major, lengthy job shut downs, lost time and money, and even loss of equipment. In the end when the shanks are worn or broken, the cones are consequently discarded and monetary losses are substantial.

Money is time and time is irreplaceable. By using a PDC or Polycrystalline Diamond Compact drill bit, you are investing in the most technologically advanced tooling, which can maximize efficiency. A matrix or steel body bit can provide you with an extremely hard, wear resistance tool capable of drilling through a range of formation types in a smooth, seamless, fluid motion allowing your crew to be in and out, and on to the next project. The DDI Volcano PDC hole opener ranges from 6" to 54" and can either be pushed or pulled, while simultaneously rotating through the pilot hole, by any HDD drilling rig. As the PDC cutters shear the rock, nozzle ports have been specially configured and installed in the junk slots of the bit to allow the rig to pump drilling fluid through, while allowing the rock cuttings to flow back to the surface. Likewise, DDI's Storm and Cyclone bits are favored by the water well, utility, and geothermal drilling industries for their versatile applications and performance.

Today's drillers are going deeper than ever before, meaning ROP goals are at an extraordinary rate. Excess torque and stress is unnecessarily placed on the motors by using cones, substandard PDC bits, and reamers to meet the stakeholders' goals. DDI's PDC drill bits/reamers continue to offer the best ROP for today's drillers at an incredible p-rate per minute and we'll prove it! DDI's PDC bits are designed for superior performance with proprietary blended matrix; each PDC cutter is hand set and fit to the pocket by master craftsmen. DDI's multi-formation cutting technology and PDC designs paired with a superior motor leads the way in a drilling performance making it the best investments for your company at a value added cost.

In an effort to bring our clientele the best options, First Corp International Inc. is pleased to announce it's partnership with Wenzel Downhole Tools to bring you their Wenzel Millennium Motors. First Corp International Inc.'s team of Vertical and HDD Drilling Specialist are on call when you are 24/7 to help you "select the right bit and motor for the right job!" Call today 817-561-5040.

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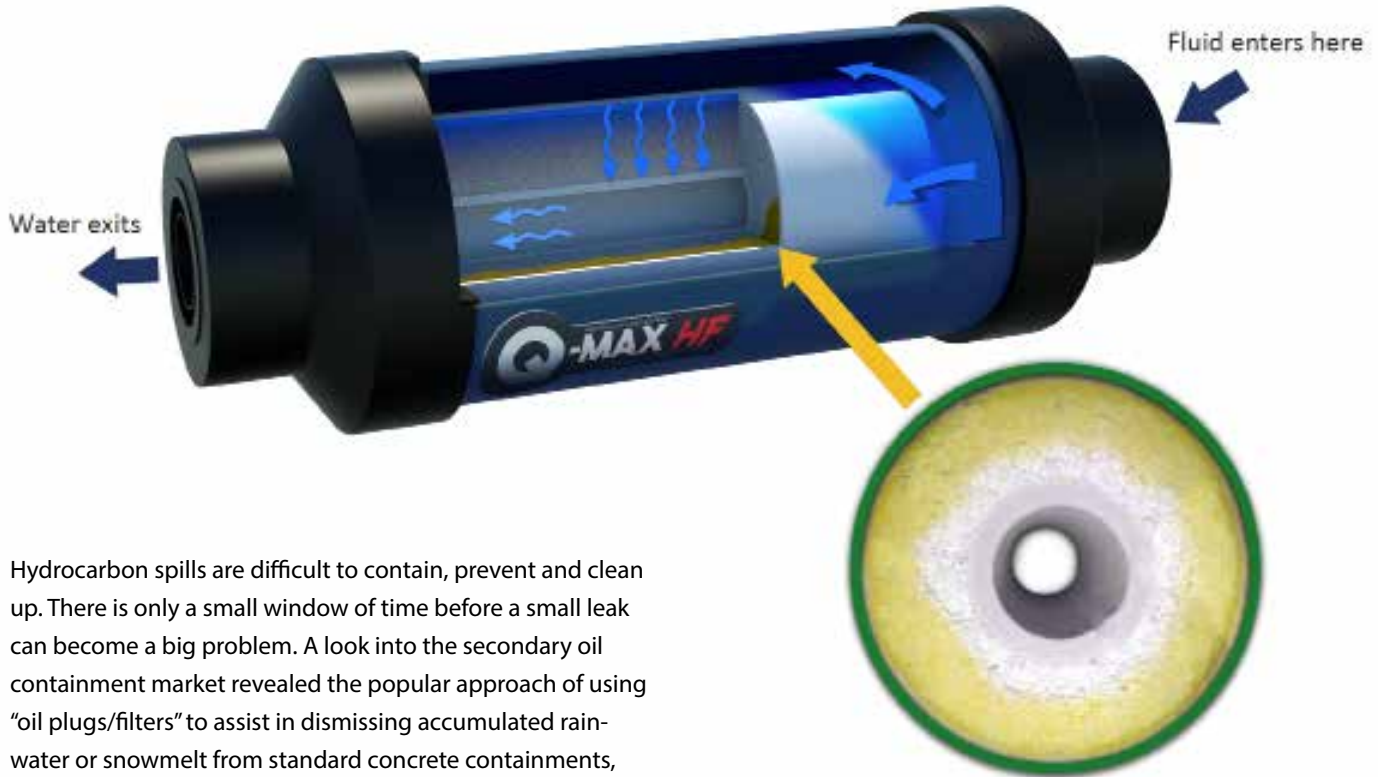
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# Albarrie GeoComposites Introduces QMax HF

A High Efficiency Hydrocarbon Filter



Hydrocarbon spills are difficult to contain, prevent and clean up. There is only a small window of time before a small leak can become a big problem. A look into the secondary oil containment market revealed the popular approach of using "oil plugs/filters" to assist in dismissing accumulated rain-water or snowmelt from standard concrete containments, the trouble is many of these cannot handle heavy flows or are not capable of discharging the accumulated water in an effective timeframe sometimes requiring many hours or several plugs to do the job. Add to these issues the requirement for pre-filters and maintaining those clean and free of debris. When was the last time your maintenance personnel did this? Luckily, Q-MAX HF does all the reacting for you! Once installed, you can feel confident that you're receiving the highest protection available with the least amount of maintenance.

Q-MAX HF is a high efficiency hydrocarbon filter, with a reactive "needle punched fiber" core. This unique design provides 360° of filtration surface area and gives Q-Max the highest flow rates in the industry coupled with a longer filter life.

This innovative device has dual functionality it not only traps hydrocarbons on contact while allowing water to continuously flow through but if there is a high enough concentra-

tion of hydrocarbons present the filter acts as an automatic shut off system stopping the flow completely.

Albarrie GeoComposites uses only the highest quality components in every one of our products and the Q-MAX HF is no exception! The inner core of the system is packed with our coveted highly reactive polymer, guaranteeing the ultimate protection against hydrocarbon leaks.

The real genius behind Q-MAX HF is it's free-flow abilities. Water can easily pass through the core without disrupting its effectiveness when subjected to hydrocarbons.

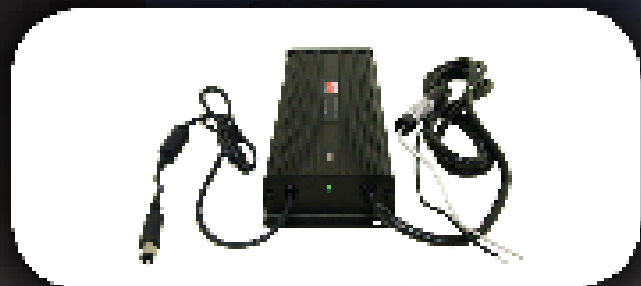
Shown in the diagram below, the inner core has absorbed and trapped the oil (yellow ring demonstrates congealed polymer), while a clean layer of white polymer remains completely unaffected! This is due to its extraordinary absorption capabilities, ensuring that no oil ever gets through.

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





# ISOLATED PROTECTION TO PREVENT GROUND LOOPS



The Lind Isolated Power Adapter provides a regulated, isolated DC output to power laptops, thin clients, monitors and other devices from a DC voltage source. Output and input DC returns are isolated, allowing the prevention of possible electrical noise caused by ground loops.

Lind's Isolated Power Adapter is built to work with most existing laptop brands and models. These adapters can also be designed for custom applications. Contact Lind to discuss solutions for your exact mobile power needs.

The Isolated Power Adapter's electronics are enclosed by an epoxy-sealed case to protect the internal circuits from damage caused by shock and/or vibration. Its durable construction withstands extensive wear and tear in any harsh mobile environment. Snap-in connectors make replacing missing or damaged cables from anywhere in the field easy and hassle-free.



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## Klein Tools News Conduit Locknut Wrench



Klein Tools introduces the Conduit Locknut Wrench, an innovative tool designed to easily loosen and tighten conduit connectors in tight or deep cut-in boxes.

Perfect for remodel work where the cut-in boxes are filled with existing wires, the Conduit Locknut Wrench (Cat. No. 56999) features two wrench heads for 1/2" and 3/4" conduit connectors. Using a patented drive shaft, the wrench heads rotate each other when twisted. This eliminates the need for side to side tool movement. Each wrench head also features a hole for a screwdriver as a lever to enable more torque on extra tight connectors.

Conduit Locknut Wrench features include:

Easily attach locknuts in tight or deep cut-in boxes.

For 1/2" and 3/4" connectors.

Heavy duty steel construction enables needed torque for extra tight connections.

"Typical methods for tightening or loosening conduit connectors, like a hammer and screwdriver, a pair of pliers or your fingers, rarely work well because of the limited range of motion inside a tight or deep cut-in box," says David Mueller, senior product manager at Klein Tools.

[www.kleintools.com](http://www.kleintools.com)

## Little Beaver's Kwik-Trench Mini-Trencher

Little Beaver's Kwik-Trench mini-trencher is offered in two models, the KT200B and KT2400B, both able to trench up to 30-feet per minute. A compact design



paired with durable construction and components allows the Kwik-Trench to tackle a multitude of projects, including landscape edging, root pruning, as well as installations of plumbing and drainage lines, low-voltage wiring, silt fences and sprinkler systems. Featuring carbide-tipped teeth and a powerful drive system, the mini-trencher is able to cut through tough surfaces such as compacted clay, road fill, asphalt and tree roots up to 10 inches thick.

In each of its two easy-to-operate push-forward models, the Kwik-Trench works quickly and efficiently to create clean, narrow trenches. Featuring a triple V-belt drive system, the Kwik-Trench achieves rotation speed up to 800-rpm. Precise cutting depth is achieved with a manual crank, while each trencher's locking swivel wheel guides the unit, ensuring straight trenches. In addition to producing clean, precise results, the Kwik-Trench is designed to minimize backfill and cleanup time by depositing soil beside the trench.

[www.littlebeaver.com](http://www.littlebeaver.com)



## Little Beaver Anchoring Equipment

Little Beaver's anchoring equipment allows installers to quickly secure utility towers to solid ground, which prevents towers from shifting or moving off footings during a storm or strong winds. The equipment package includes an 11-horsepower hydraulic drill, a high-torque handle and an anchoring adapter and it can install each anchor in about a minute.

The drill's compact body and portable hydraulic power pack make it easy to anchor in remote locations and cramped worksites. For instance, an all-terrain vehicle can transport the hydraulic drill and attachments. Other drills require using a carrier, such as a backhoe or skidsteer, to hold and power the drill, making it difficult to maneuver the carrier through narrow worksites. Rather than transporting a bulky air compressor or generator, Little Beaver's unit is powered by a hydraulic power pack on a three-wheeled steel carriage. A Honda gas engine or Kohler diesel engine powers the pack's hydraulic pump, providing the drill, or any other hydraulic hand tool, with a 6-gallon-per-minute hydraulic flow rate.

[www.littlebeaver.com/products/accessories-adapters/](http://www.littlebeaver.com/products/accessories-adapters/)

## Jarraff All-Terrain Tree Trimmer



For over 30 years Jarraff Industries has been providing the means for tree service companies to safely and efficiently clear and maintain utility right-of-ways. With features that maximize production and enhance operator safety, the Jarraff All-Terrain Tree Trimmer is the most effective machine for clearing and trimming trees and encroaching limbs.

In either wheeled or track configurations, the Jarraff is self-contained and requires virtually no set up time. This allows smaller crews to do more in less time. And since workers never leave the ground, the Jarraff adds safety to every job.

The Jarraff All-Terrain Tree Trimmer provides ROW maintenance contractors a dynamic field of operation, offering a 360-degree range of motion, 40-degree lateral tilt and 75-foot (22.9-meter) 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, tinted lexan windows prevent distortion and provide a clear view of operations. The cab also comes with a heating and air conditioning option. The Jarraff adds safety to every job because workers never leave the ground.

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

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## The New M18 FUEL By Milwaukee Tool

Milwaukee Tool continues to revolutionize the tool industry with the introduction of new M18 FUEL™ Drill Drivers, Hammer Drills and Compact Impacts that can be completely customized for better control over power, speed and consistency through ONE-KEY. These new drilling and fastening solutions connect wirelessly to the ONE-KEY™ app, allowing users to use predetermined set-ups for specific fasteners and materials, or completely customize their own profile with torque and speed settings for the application at hand.

“This is an exciting time in power tool history. Our M18 FUEL™ drills and impacts are the most powerful on the market. Because these tools feature a combination of the smartest electronics available, brushless motors and advanced lithium-ion batteries, their power and versatility make them perfect for an incredibly wide variety of applications. With all this power at their fingertips, our users want to be able to harness the performance and customize it for their specific needs,” said Christian Coulis, Vice President of Product Management for Milwaukee Tool.

[www.milwaukeetool.com/one-key](http://www.milwaukeetool.com/one-key)



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## Atlas Copco Construction Equipment Launches Two New Light Towers- The HiLight V4 & LED HiLightV5+



Atlas Copco Construction Equipment launches two new light towers — the HiLight V4 and the LED HiLight V5+. The HiLight V5+ minimizes operational costs with its long-lasting LED bulbs and fuel-efficient operation. The HiLight V4 features four metal-halide floodlights to give contractors a dependable light source for a variety of jobsites. Both models are light-

weight, compact and feature Atlas Copco's exclusive HardHat® canopy for extreme durability in rugged applications, such as construction and roadbuilding.

"For their crews to be successful, contractors need equipment that is cost-effective to operate, durable and safe. Those three points are always key drivers for innovation," said Michael Sagermann, Atlas Copco business line manager, portable energy division. "That's why we incorporated our exclusive HardHat canopy and designed the HiLight V5+ with a compact footprint, LED lights and retractable mast."

The LED floodlights are rated for 10,000 hours and are durable to withstand a range of challenges, from vibrations during transport to harsh work environments. Contractors with a fleet of 200 light towers, for example, can save as many as 600 bulbs each year when switching from metal-halide light towers to the HiLight V5+.

[www.atlascopco.us/usus/](http://www.atlascopco.us/usus/) •





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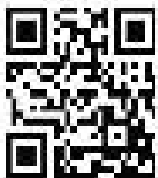
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## Mclaughlin Introduces New Truck-Mounted Vacuum Excavator Series

The MEGA VX200 6-inch (15.2 cm) vacuum excavator series features spoil tank capacities ranging from 1,200 to 3,000 gallons (4,542.5 to 11,356.2 L) and a standard option of 800 gallons (3,028.3 L) of fresh water. It has a 6-inch (15.2 cm) hose diameter with a 3,200 CFM (91 m<sup>3</sup>/min) blower at 18 inches of mercury.

The MEGA VX200 6-inch series was designed after listening to customers who said they wanted a vacuum excavator for their potholing jobs and fluid management needs that fills a gap between smaller trailer-mounted vacuum excavators and the largest truck-mounted units.

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

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