



APRIL 2019

ROCKROADRECYCLE.COM



**MOBILE PLANT BOOSTS NEW  
ENGLAND CONSTRUCTION  
MATERIALS SUPPLIER**

**TECHNOLOGY IMPROVES  
EFFICIENCY, HELPS MEET  
TIGHT DEADLINE**

**RECYCLING WASTE  
WOOD INTO VALUABLE  
PRODUCTS MADE EASY**



ROCK

Mobile plant boosts New England construction materials supplier ..... 3

Prairie Dawg Practical by Tim Holmberg DEMI Equipment ..... 6

New Cat® D11 dozer drives down cost per ton ..... 8

Solutions for finding skilled labor ..... 16

Volvo CE machines win EquipmentWatch’s highest retained value and lowest cost of ownership awards ..... 21

Classifieds ..... 22

ROAD

Technology improves efficiency, helps meet deadline by Jeff Winke ..... 4

Chew it up - smooth it out by Jeff Winke ..... 8

On the front lines with Fisher Phillips by Travis Vance and Pamela Williams ..... 12

Lift & Move career exploration events set for 2019 ..... 13

Classifieds ..... 24

New Cat® 440 and 450 backhoe loaders deliver performance and comfort ..... 26

RECYCLE

Recycling waste wood into valuable products made easy ..... 3

Reduce downtime and maximize productivity with daily maintenance of your CTL ..... 6

How tech is changing the equipment rental market ..... 8

High capacity eucalyptus and acacia bark processing ..... 12

SDLG LG946L wheel loaders aid Australian company’s timber recycling operations ..... 16

Classifieds ..... 20





# Mobile plant boosts New England construction materials supplier







**Frederick W. Lee**  
Publisher, President

**Bruce Button** VP, General Manager  
bbutton@leepub.com

**Jessica Mackay** Production Coordinator  
ext. 137 jmackay@leepub.com

**Colleen Suo** Editor  
ext. 145 csuo@leepub.com

**Gabbie Albrecht** Social Media Coordinator  
ext. 163 galbrecht@leepub.com

**Ad Sales:** 1-800-218-5586

**Matt Stanley** Sales Manager  
ext. 124 mstanley@leepub.com

**Peggy Patrel** Classified Ad Manager  
ext. 111 classified@leepub.com

**Tina Krieger**  
ext. 108 tkrieger@leepub.com

**Steve Pelosi**  
ext. 166 spelosi@leepub.com

**Scott Duffy**  
802-484-7240 srduffy@together.net

**Andy Haman**  
ext. 160 ahaman@leepub.com

**Jessica Waite**  
ext. 116 jwaite@leepub.com

**Christopher Nyce**  
267-261-4235 cnyce@leepub.com

**Christine Attle**  
315-317-0905 christine.leepub@gmail.com

**Patrick Burk**  
585-343-9721 burk.patrick1956@gmail.com

**Free Subscriptions:**  
[www.rockroadrecycle.com](http://www.rockroadrecycle.com)  
[rockroadrecycle.com/my-account/](http://rockroadrecycle.com/my-account/)

Mention of product names in articles does not indicate an endorsement.  
We do not guarantee claims stated by advertisers.  
Permission is granted for reprinting of editorial content provided  
RockRoadRecycle.com is given full credit.

Lee Newspapers, Inc.  
PO Box 121 / 6113 St. Hwy. 5  
Palatine Bridge, NY 13248  
PH 518-673-3237

- Classifying
- Dredging
- Screening equip. & media

## 22

### Classifieds

## 6

Prairie Dawg  
Practical

by Tim Holmberg  
DEMI Equipment



## 8

New Cat® D11  
dozer drives down  
cost per ton



## 16

Solutions for finding  
skilled labor



## 21

Volvo CE machines  
win EquipmentWatch's  
highest retained value  
and lowest cost of  
ownership awards



Associations and affiliations:



*Mobile plant boosts  
New England  
construction materials  
supplier*

by RockRoadRecycle staff writer

On the cover:  
L - R: Shane Fleming, Rock &  
Recycling Equipment, Jim Fletcher, W.J.  
Graves and Brendan Fox, Rock &  
Recycling Equipment.

Photos courtesy of W.J. Graves

## PG 3



## Mobile plant boosts

### New England construction materials supplier

The C44 cone crusher ready to be moved to the next job.

by RockRoadRecycle staff writer

For over 60 years, W. J. Graves Construction has been supplying quality sand, gravel, stone, loam and other products to homeowners and contractors in the Massachusetts construction industry from its seven pits and quarries. Recently the company acquired a tracked and mobile screening and crushing train supplied and supported by New England based McCloskey International dealer Rock and Recycling Equipment LLC. The McCloskey equipment is now hard at work producing 300 to 500 tons per hour of finished product.

W. J. Graves was founded by Wilfred Graves in 1929 when he lost his hourly job due to the Depression. Initially Wilfred delivered milk and cut cordwood, but in 1932 he bought a truck to deliver the wood — which was followed by buying a piece of land for the cordwood in 1933. He later discovered the land contained sand and gravel, so naturally he started to sell that as well.

Following the end of the Second World War in 1945, Wilfred began a subdivision of his operation, moving into real estate and selling homes to young families. For approximately 10 years he used the growing sand and gravel business to supply much of the building materials. This growth and continued development led to the incorporation of his sand and gravel business in 1956. Wilfred remained active in the business until 1984 — at which time he sold the business to his grandsons, Jim and John Fletcher, who had both been

working with him for several years learning the business. W.J. Graves has continued to expand and develop with Jim and John at the helm of this increasingly important cog in the New England construction machine.

#### Important supplier

W. J. Graves Construction has been a vital source of high quality sand, gravel, stone, loam and other products to homeowners and contractors in Massachusetts for over 60 years and has developed the expertise and know-how to give its customers what they need.

Jim and John Fletcher — with Jim having direct responsibility for W.J. Graves and John the concrete division — now run the group jointly. It now employs 85, but is still run to the high standards set by Wilfred Graves himself. “We strive to maintain honesty and integrity in all aspects of our business. With having over 120 vehicles in our fleet and various other equipment we repair and maintain in our own garage facility in order to keep our expenses low and the availability high. Our priority here at W.J. Graves Construction is to give excellent service and products at competitive prices,” said Jim.

“We have different mining sites with various types of materials to ensure we have the proper products to service all of our customers for right now and years into the future. We offer four different sizes of delivery trucks to provide

the best option to supply materials to the aggregate needs of our customers,” he added. “With our fleet of 35 trucks, we can supply jobs of all sizes. Same day delivery can be arranged — but a one-day notice is very much appreciated. Professional service and customer satisfaction is the foundation that our business was built on. Our priority is to serve our customers in the best way we can by offering quality products, knowledgeable advice and competitive pricing.”

#### Right product for the job

As always, W.J. Graves insists on having the right products for whatever their customers’ projects are — from landscaping to roadworks to general construction. “Just like using the right tool for the job, using the right product for the project is equally important. Starting the job with using the right material will give you a better end result, which is the ultimate goal,” said Jim. “We have the knowledge to ensure the right product for the job whether it is landscaping, drainage, walkways or borders.”

The list of products supplied by W.J. Graves is impressive and includes bank run materials, clay, crushed base, sands of various sizes and specifications, decorative stones, loam, compost and sand. Additionally, a wide variety of washed and sized materials are supplied by the company — including crushed gravel, natural round stone, washed and natural granite and red stone, as well as a wide range of recycled aggregates to cater for a variety of needs.



A side view of the C44 cone showing its strength and productivity.  
Photos courtesy of W.J. Graves



Three way split screeners sorting material into ready usable products.





*One of W.J. Graves' quarry sites with primary crusher, drill rig, excavators and a stockpiling conveyor.*

### High quality resources

W.J. Graves processes its materials from a total of seven quarries and gravel pits located in Central Massachusetts. Each site has specific material that allows the company to supply a full range of material to customers, with over 35 trucks delivering material throughout New England, although many customers choose to truck their own material. Supplying the right product is just part of the job for W.J. Graves, as the company places emphasis on supplying not just the right product but a finished product of the highest quality. Thus a major part of the quality process includes washing materials to take away impurities and processing materials to refine the shape and size. "We provide quality materials, because we believe that gives our customers a product of value," said Jim.

As part of W.J. Graves' commitment and focus on supplying the very best materials to its customers, often to very tight deadlines, Jim Fletcher and his team recently sought an advanced screening and crushing solution. In order to be highly flexible, productive and efficient, the company realized that a tracked and mobile crushing and screening train would be required for use at multiple sites and locations. Given the many options of equipment on the market, Jim was presented with a large variety of choice. However, a local dealer has also developed a first class reputation for supplying what customers really need and supporting customer operations in the field.

### Rock & Recycling Equipment and McCloskey

The local dealer Jim Fletcher turned to is Rock & Recycling Equipment LLC, which is the full service McCloskey International dealer throughout Connecticut, Rhode Island, Massachusetts, New Hampshire and Maine. It sells and supports the full line of McCloskey crushing and screening equipment and like W.J. Graves is dedicated to exceeding its customers' requirements. To this end, the dealer supplies the extensive McCloskey line of trommel screens, stackers and crushers, working constantly to support its customers' business and

striving to exceed their expectations.

A case in point that supports Rock and Recycling's aims was the way in which it listened to Jim's requirements and came up with the right package and the right deal to support W.J. Graves. Based on these — and taking into account the existing equipment located at the company's operations — Rock and Recycling supplied a C44 cone crusher, R230 scalper-screener, three R155 scalper-screens, a 100-foot tracked powered radial stacker, two tracked 80 foot conveyors and two tracked 100-foot conveyors.

Given this equipment array, Fletcher confidently expects the McCloskey equipment to produce between 300 to 500 tons per hour of finished product depending on the material and quarry site. All of the equipment acquired by W.J. Graves is portable and fully mobile via tracked chassis, which allows it to be easily moved from site to site. Another essential requirement was the ability to produce different sized products. The McCloskey scalper-screens are perfectly suited for the requirement with easily changed screen meshes. Furthermore, the tracked nature of the equipment enables it to be easily moved out of the blasting zone when needed.

### Class leading equipment

The McCloskey R155 high-energy screener is a tough, robust screening tool designed to cope with the heaviest of applications. With the ability to handle some of the worst untreated construction and demolition waste, the R155 can minimize material pre-handling and provide clean end products. As W.J. Graves has found, the R155 is extremely effective across a wide range of applications. With a screening area of 155 ft<sup>2</sup> across the screenbox — the largest in its class — the R155 has impressed Fletcher's operators across many applications, working with difficult materials such as heavy rock, sticky clay and fines, as well as boulder clay.



*One of the three R155 screener scalpers producing one product, and feeding a jaw crusher over-size for further processing.*



The C44 cone on continuous product loop.



One of the 100 foot conveyors being fed and feeding another conveyor.

McCloskey's focus on quality components, durability and reliability means that W.J. Graves' C44 cone crusher provides high performance with its 44-inch cone and a 440HP power unit. It has provided the company with high material capacity and throughput, large stockpile capacity and customer focused features. The C44 cone crusher also provides a high degree of control over the final product — making it the ideal portable secondary crusher.

Despite these highly impressive screeners and crushers, Fletcher feels the portable stacking conveyors are the key to the efficiency of his operations. He uses his McCloskey stackers in all of his pits and now rents additional stackers if needed for a particular contract. Designed for use in any terrain, the stacker is easily transported site to site without the need to remove the radial wheels. Built-in levelling indicators allow operators to position the stacker regardless of the ground level, with independent hydraulic pressure control to stabilize once in place.

The design of the McCloskey stackers and conveyors allows for the wheels to be fully folded for transport, delivering true portability for operators moving site to site. Much to Jim's pleasure, the stackers are all about efficiency — from speedy setup time to high degree of mobility — meaning

that downtime is minimized while throughput and stockpile capacity are maximized. Hydraulic main lift and top fold are standard, as is the diesel power unit. Electric and dual power is also available to get the job done, no matter what the application. The 22.5-degree maximum conveyor angle allows for the highest stockpiles per conveyor length in the industry. With its durable truss frame, large feed hopper and base production capacity of 500TPH, the stackers are also available with optional upgrades to 800TPH.

Worthy of particular note is a new option W.J. Graves took advantage of for its ST100T stacker — a lift axle — allowing the conveyor to switch from track mode to radial mode in seconds. Mounted in front of the track bogie, the lift axle comes with internal wheel drive motors for radial travel. The tires feature aggressive tread patterns for more traction in tough terrain. The lift axle is available on all McCloskey heavy-duty stacking conveyors, SDX Telescopic Conveyors and tracked stackers.

"We believe in our McCloskey equipment, the dealer — Rock & Recycling Equipment — and McCloskey International. I have had the pleasure of meeting Paschal McCloskey [owner and founder of McCloskey International] at my pit and he truly understands our industry and our business," said Jim of the relationship that has formed between

the three companies. Of the equipment features that have particularly proven to be beneficial, Jim's praise flows: "We particularly like the wide belts and wide chutes that are on our McCloskey equipment; they don't plug up, which is a constant problem we have with some of our other equipment. They are also designed to have great access to the engine compartment and other service areas. McCloskey equipment is user friendly and very productive.

"The equipment is well built, operator friendly and very productive. Dealer training and support is exceptional with the McCloskey machines being extremely easy to service and maintain. There were certain options that we asked the dealer and McCloskey to install on our last C44 cone that we purchased and they were glad to accommodate us." As to how Jim views the equipment and support he and W.J. Graves have received, he concluded, "The partnership we have with Rock and Recycling and McCloskey International is critical to our growth and success. Great equipment, great people!" ■







## Prairie Dawg Practical

by Tim Holmberg, DEMI Equipment

### Hey Prairie Dawg, “What are the different types of screening equipment?”

Luckily, there is a lot to choose from in screening equipment – many more choices and brand names than ever before. “So, which one is the best, the most universal, the most economical and the simplest to operate for what I am doing?” you may ask. This is a rather lengthy subject to discuss depending upon what type of producer you are classified as.

Are you a portable contractor looking to classify varying materials? A custom producer with clients expecting you to offer a diversified output due to the multiple products they offer to the concrete and asphalt markets? Or are you a major output production facility looking for maximum output of one to two size-ranges of material for the high demand purposes of mining minerals or precious metals? Then there’s all the specialty guys – whether it be decorative landscape material with multiple sizes and colors of product to those out along a river’s edge do-

ing placer-type gold mining.

At either end of the spectrum there are many ways and styles of getting the material sized or separated into specific needs that sometimes require more energy due to a horizontally operating machine opposed to the less energy-intensive incline, allowing the physics of gravity to play an extremely important part in the equation, which is actually free-form energy without cost. Some screening requires longer retention time over the media, mainly due to the presence of Mother Nature’s naturally-occurring binding agents such as ground moisture and clay seams. These can cause structural contamination if not addressed, therefore requiring machines be designed longer and flatter in operation in order to allow added vibration and time as the material crosses the media, creating maximum opportunity to shake and separate through attrition. These are all

details that begin the process of choosing a best fit or applicable machine for individual processing needs. Below is a quick list of types of screening machines available and a brief descriptive and highlight of each.

Track-mounted screens are becoming more popular every day, from traditional incline screens to rotary trommel screens. These remote-controlled, self-contained screens are highly adaptive and portable. They are universal, especially when docked next to their crushing counterparts, which can also be situated on track-type undercarriages. These machines usually come equipped with fold-out stockpiling conveyors and even conveyors that will recirculate oversized product back into the crusher until it is eventually sized down to fit through specific classification media. Other benefits include quick set up times and smaller footprints required for operating. Some downsides are rather high dollar investment and lower productivity than traditional stationary screens. These machines are often rental tools – if renting versus purchasing can reduce initial dollar investment allowing the contractor better job-specific bidding opportunities.

Portable rubber tire-mounted screens have dominated certain mid-range production markets for years and have always been extremely dominant in the resale market, keeping these types of screens extremely popular, if not the most popular, today. These screens are typically flat or horizontal in configuration and reach lengths of 24 feet. Inclines have also been popular, but require the plant to be lifted into position – an extra step. They also require a longer feed conveyor to reach the elevated height. So the incline version (although being the first ones on the market) has stayed the course (being structurally fixed) to become some of the best production-based machines on the market requiring less horsepower and machined parts, making them extremely efficient and long-lasting.

Another long-lived screen has been the

trommel screen, which is a great design for aggregates to organics and everything in between. Being rotary drum-designed machines and positioned on a declined foundation, they use both gravity and scrubbing along with some intermittent lift elements to break down and classify conglomerated materials. Depending on their length and diameter along with decline they can be highly productive but typically the trommel of today is best suited for topsoil and organic-based producers.

Lastly, and similar to this category of screening, is the static wind fall screen – simply a screen positioned anywhere from 40 to 60 degrees on a declined slope. You dump directly onto it with a bucket loader or excavator and it uses only gravity for a single pass. The material being processed separates onto a clean coarse and falls through a mixed size of fines, usually size-specific for whatever the project requires. These screens are often very low productivity and are used as a “safety” to keep oversized material from getting into something that was just dug out.

This was just a brief overview of one of the most specific parts of an aggregate producer’s world. It takes a lot of information and product gradation specifications in order to determine the very best type of screening machine and associated media suited for your predetermined budget.

*If you enjoy these random aggregates and quarrying equipment-based subjects, tune back in for more topics to come. Send me a subject or topic you would like brought to light and any associated questions you would like to have discussed and I will gladly provide my best answer based upon my specific point of view and personal experience.*

*Questions or comments? Email Tim Holmberg at [prairiedawg@pdpractical.com](mailto:prairiedawg@pdpractical.com) or visit [demiequipment.com](http://demiequipment.com).*

*Simply write me a letter and we will send you a T-shirt or ball cap:*

*Tim Holmberg / 2915 Idea Ave. / Aberdeen, SD 57401* ■

# OWNERS DO IT BETTER.

Success. We’ve earned it. And we’re not about to burn it. On your project. Or anyone’s. That’s what it means to be an Employee Owner. Taking care of business better. Yours and Ours.



making it happen

**Maine Drilling  
& Blasting**

603-647-0299 • New England Quarry North; serving ME, NH  
508-478-0273 • New England Quarry South; serving CT, MA, RI  
518-632-9170 • Western Quarry; serving NY, VT  
717-933-5781 • Mid-Atlantic Quarry; serving PA  
[www.mainedrilling.com](http://www.mainedrilling.com)



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





**Want to run strong equipment?  
Run Doosan.**

*Visit us today to learn more.*



**Barry Equipment**  
30 Birch Island Road, Webster, MA 01570  
508-949-0005  
[joebarry@barryequipment.com](mailto:joebarry@barryequipment.com)  
[www.barryequipment.com](http://www.barryequipment.com)



**Hoffman Equipment**  
300 South Randolphville Road, Piscataway, NJ 08854  
732-752-3600  
[sales@hoffmanequip.com](mailto:sales@hoffmanequip.com)  
[www.hoffmanequip.com](http://www.hoffmanequip.com)

**DOOSAN**

Doosan® and the Doosan logo are registered trademarks of Doosan Corp.  
in the United States and various other countries around the world.



# New Cat® D11 dozer drives down cost per ton

The new Cat® D11 Dozer features new load-sensing hydraulics and high-horsepower reverse combined with the latest technology to move more material at a lower cost per ton. Engineered to be rebuilt multiple times, the new D11 has a redesigned main frame that delivers lower total cost of ownership over the life of the machine. Time-saving service updates reduce daily maintenance and boost machine uptime.

## Lower cost, higher production

New load-sensing hydraulics and new drive train components deliver up to 8 percent fuel efficiency gains. The variable hydraulic pumps adjust output to meet demand, which saves energy, reduces heat generation and extends component life. The new stator clutch torque divider provides improved drive train efficiency. When combined with the new, high-horsepower reverse function, the machine delivers 4 to 8 percent greater productivity while burning less fuel.

Redesigned structures and components increase reliability and durability for higher utilization. For example, the larger equalizer bar features an improved bearing design to increase reliability. The new D11 also improves on the time-tested elevated sprocket undercarriage with a more robust track roller frame to extend component service life. Replaceable bearings on the ripper and blade pin bore-holes and new push arm trunnion bearing inserts offer fast replacement and extend component life.

Available with a choice of emissions solutions to meet regional requirements, the Cat C32 engine delivers power ratings of 634 kW (850 hp) forward and 712 kW (955 hp) reverse for increased performance. A new single-plane cooling system design better dissipates heat to maintain consistent operating temperatures, even in extreme heat, and it provides easier core cleanout. Improved reversing fan function delivers greater reverse airflow for radiator cleanout.



*Caterpillar offers a range of standard and optional technologies for the new Cat D11 Dozer, so operations can get work done more efficiently, more accurately and at a lower cost.*

*Photos courtesy of Cat®*

## Improved service, operation and safety

A 30 percent larger engine oil sump capacity extends preventive maintenance intervals to 500 hours in challenging environments, giving customers more uptime. The ground-level electrical center provides convenient access

to the lockout control, engine shutdown switch and switches for access ladder raise/lower and remote-control mode options. Service technicians can also fill the Auto Lube system and change the coolant and hydraulic, engine and powertrain oil from the ground.

Standard features built into the new D11 offer improved access to the operator compartment. The cab door can now be mounted for either left- or right-side opening. Delayed egress lighting allows the operator to exit an illuminated dozer, while access lighting is controlled from either the cab or ground-level electrical center.

The new operator station features high-definition touch-screen displays with scalable electronic architecture. The dynamic fluid monitoring system displays fluid levels and warns the operator of low-fluid conditions. New cab anchor points for tie-off advance safety during service and maintenance.

## Technology boosts efficiency

Caterpillar offers a range of standard and optional technologies for the new Cat D11 Dozer, so operations can get work done more efficiently, more accurately and at a lower cost. Standard Automated Blade Assist makes use of preset blade pitch position to increase efficiency while reducing operator workload. Fuel efficiency and productivity are optimized through Enhanced Auto Shift, which automatically selects the optimal gear and engine speed based on powertrain load and desired ground speed.

Available AutoCarry™ automatically changes blade position to keep track slip at a minimum to optimize productivity when pushing a load. The optional Auto Ripper Control reduces operator fatigue and decreases machine wear by monitoring and automatically adjusting engine speed and ripper depth to minimize track slip. Cat Product Link™, also available, enables remote reporting of critical operating data like machine location, operation and condition, and allows data tracking from anywhere through VisionLink™.

Available Cat MineStar™ technologies for the D11 include Terrain for grading, which guides the operator in grading to plan and boosts productivity by reducing rework. Command for dozing offers multiple levels of remote control as well as semi-autonomous operation, which enables a single remotely located operator to manage several dozers. ■



*Available Cat MineStar™ technologies for the D11 include Terrain for grading, which guides the operator in grading to plan and boosts productivity by reducing rework.*



# Process equipment manufacturer unveils centrifugal classifier

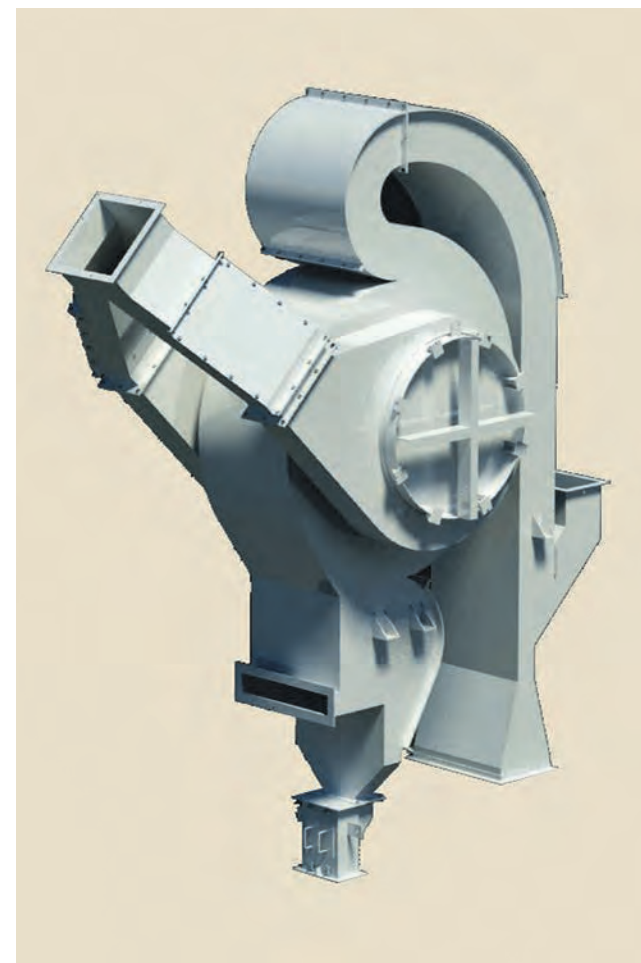
LEBANON, PA – Process equipment manufacturer Van Tongeren America, based in Lebanon, PA (Van-Tongeren.com), has unveiled a centrifugal classifier (CC) that harnesses air, gravity and centrifugal force to automatically separate dry particles without any water. Featuring a novel, proprietary design, the pneumatic air classifier separates the feed material from the airstream and redirects the air into a curtain of material to create a scrubbing action that directs larger particles to the discharge outlet and directs fine particles into a controlled vortex en route to discharge with the airstream to a dust collector. Designed with no moving parts, the centrifugal classifier offers an efficient

alternative to screening machines with virtually no maintenance, no work stoppages for screen cleaning and replacement and at lower initial and operating costs.

Developed for classifying cement, alumina, salt, potash, limestone, fertilizer and other materials, the centrifugal classifier separates dry particles at any cut point between 100  $\mu\text{m}$  to 15  $\mu\text{m}$ . The classification system is custom-designed and manufactured for each installation to meet target production goals and material specifications, and is proven to perform continuously in unattended, 24/7 operation.

For a free brochure or more information, contact Van

Tongeren America LLC at 518 South 8th St., Lebanon, PA 17042; 717.450.3835; or [www.Van-Tongeren.com](http://www.Van-Tongeren.com). ■



The classification system is custom-designed and manufactured for each installation to meet target production goals and material specifications.

Photo courtesy of Van Tongeren America



**We had a ground man that did nothing but constantly clean up; that was his job.**

Now we don't have a ground man. We haven't shoveled the tail wheel or cleared anything out from under the conveyor since we installed these cleaners. I'm amazed by CleanScape®, it's been on for a year now and I haven't touched it. This material is sloppy, it's just muck that we're running. And then you look at the return side of the belt and the proof is right there. Absolutely phenomenal. Try it out for yourself, it's amazing.

– Trey Poulson | Fairplay Gold Mine, Colorado, USA



visit [martin-eng.com](http://martin-eng.com) | 800.544.2947 or 309.852.2384 | [cleanscape@martin-eng.com](mailto:cleanscape@martin-eng.com)

© Registered trademark of Martin Engineering Company in the US and other select locations. © 2019 Martin Engineering Company. Additional information can be obtained at [www.martin-eng.com/trademarks](http://www.martin-eng.com/trademarks) and [www.martin-eng.com/patents](http://www.martin-eng.com/patents).



# Auto pilots: What do customers want from automation?

Source: [vovloce.com](http://vovloce.com)

Automation technology is advancing, but what features do customers actually want? In this article Volvo CE's Tina Lefebvre, global director connected services, and Koen Sips, VP customer solutions, highlight how automated services are making every operator the world's best.

We talk about "automation" as if it's a new thing, but when it comes to construction equipment the progression of automating processes has been going on for years. The automatic gearbox and climate control are just two examples, relieving us of the responsibilities of changing gear or turning the heating up and down. What is now different is that, thanks to advanced technology, the level of operator assistance is set to transform the overall productivity of machines.

## Application-specific solutions

As well as improving the machines themselves, such as more efficient combustion engines or hydraulic systems, a new level of technology is focusing on how efficiently a machine is working in a particular job site. For example, with the latest excavator digging machine control systems – such as Volvo's Dig Assist – the operator doesn't need to step out of the machine in order to take measurements – because the system will have calculated exactly what material has been taken, from where, and what the levels are. This represents savings in time, money and improved safety.

## Semi-autonomy

It's not just measurement. The next level of assistance is semi-autonomous functions, where the machine actually helps the operator with the task in hand. Staying with the digging example, these systems automatically create a certain level or grade, or preventing digging too deep or raising the boom too high. The machine is basically helping the operator to be at the exact right spot or the exact right

depth of digging the hole or trench.

## Automated data mining

Even that level of sophistication isn't the whole automation story. There is another level – where machines "talk" to each other, thereby boosting total site productivity. Machine telematics relay large amounts of data – so much so that it can be overwhelming. What is developing now are active monitoring services that automatically – thanks to the business logic's algorithms – highlight problems, triggering the sending out of technicians with a detailed diagnosis of a problem and the tools and equipment to remedy it – all with no unplanned downtime. One example of this type of tool is the ActiveCare uptime service, where Volvo and its dealers partner up to detect at a very early stage health problems of the machine and proactively solve those.

## Application super-highway

Speaking only for Volvo CE, our Co-pilot platform has been deliberately designed to be a semi-open system. It's early days, but other people can develop applications that run on Co-pilot. These can be customer-specific, site-specific or application-specific solutions. While it's limited only by imagination, we do need to introduce these in a controlled way. We are happy to provide the technical highway for others to drive their own solutions on.

## New business models

As with technology-driven changes in wider society – such as online music streaming – automation offers the potential for new business models to emerge. Machine control and monitoring systems could in the future be subscription-based or pay-as-you-use. This will provide benefits for both customers and manufacturers. The business model and best way to market these new services is something we are still learning.

AUTO 12



Intelligent automation is more about boosting safety and productivity than it is replacing operators.

Photo courtesy of Volvo CE



## Aggcorp Equipment Systems

22800 Lakeland Blvd., Euclid OH 44132

**216-732-8992**

[info@aggcorp.net](mailto:info@aggcorp.net),

[smcivor@aggcorp.net](mailto:smcivor@aggcorp.net)

[www.aggcorp.net](http://www.aggcorp.net)



## Emerald Equipment Systems

7600 Morgan Rd., Liverpool NY 13090

**315-437-1977**

[sales@emeraldscreening.com](mailto:sales@emeraldscreening.com)

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



## Powerscreen Crushing & Screening LLC

11901 Westport Rd., Louisville KY 40245

**502-320-9300**

[justin@powerscreensales.com](mailto:justin@powerscreensales.com)

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



## Powerscreen of Florida, Inc

5125 North Frontage Rd., Lakeland FL 33810

**863-687-7153**

[sales@powerscreenfla.com](mailto:sales@powerscreenfla.com)

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



## Powerscreen Mid-Atlantic Inc

715 Indeneer Dr, Kernersville NC 27284

**(800) PWR-SCRN**

[sales@powerscreenmidatl.com](mailto:sales@powerscreenmidatl.com)

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





# COBRA 290

## IMPACT CRUSHER

The Cobra 290 Impact Crusher is a machine that provides class leading productivity, unmatched versatility and excellent fuel efficiency. The quick set up times, simple intuitive operation and ease of transport makes this machine an ideal solution for all applications.

# 2

**INDEPENDENT  
HYDRAULIC  
APRONS**



**ENGINE POWER**

Tier 3 – 235kW / 315Hp

Tier 4 – 235kW / 315Hp

UP TO

# 290

**TONNES PER  
HOUR**

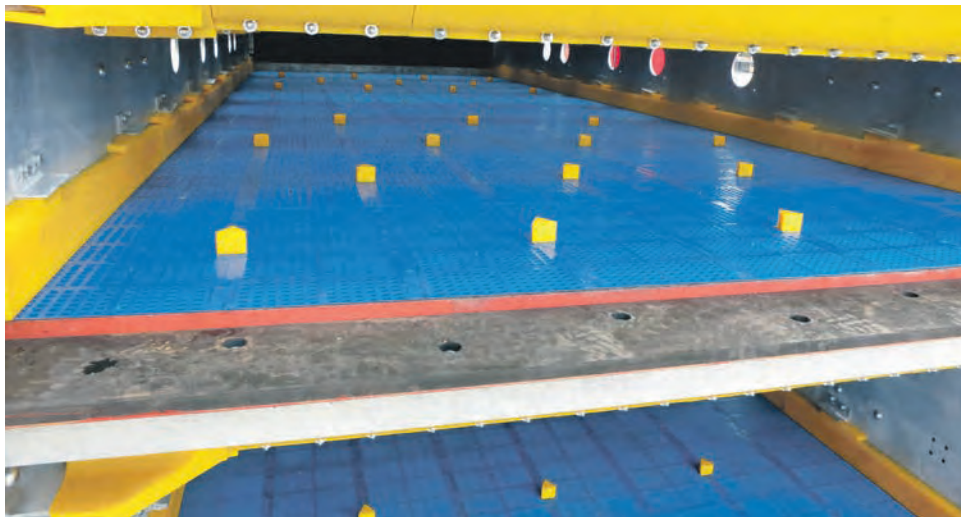
(320 US tonnes)

For more information please visit: [terex.com/evoquip/cobra290](https://terex.com/evoquip/cobra290)  
or **Tel:** +442887718500 **Email:** [evoquip@terex.com](mailto:evoquip@terex.com)



**[terex.com/EvoQuip](https://terex.com/EvoQuip)**





Kureha Elastomer Company Ltd. is joining Metso's distributor community.

Photo courtesy of Metso

## Metso welcomes Kureha Elastomer Company to the aggregates distributor community in Japan

Kureha Elastomer Company Ltd. is joining Metso's distributor community. The company will focus on offering Metso's screen-

ing media, wear lining and conveyor accessories for the aggregates industry in Japan.

Established in 1943, Kureha Elastomer Company has strong experience in manufacturing and selling synthetic solutions for various industries. With its head office in Osaka, the company has 300 employees and sales branches in Tokyo, Nagoya and Kyushu. In addition, the company operates two rubber plants in the cities of Tsu and Kameyama.

"Metso is happy to partner with an esteemed distributor that shares our values of quality and customer service," said Claes Edin, director, consumables distribution at Metso. "Kureha Elastomer's strong experience and capabilities make

them a valued addition to our community."

"At Kureha, we are committed [to] offering the highest quality solutions and services to our customers," said Shinji Noda, managing director at Kureha Elastomer Company. "Adding the Metso brand to our portfolio continues this tradition and complements our offering for the aggregates and construction industry."

Metso serves the Japanese aggregates and construction market through its distributors. Japan's yearly output of aggregate material is around 400 million tons. With Japan hosting the Olympic Games 2020 in Tokyo and the World Expo 2025 in Osaka, significant investment in various infrastructure projects are anticipated. ■



## Sales • Service • Rentals Replacement Parts

### EQUIPMENT SPOTLIGHT

[Click Here For More Details](#)


McCloskey I54 Impact Crusher

#### 2013 McCLOSKEY I54 Impact Crusher

3,465 Hrs, CAT C13 Engine, 47"x53" Fourbar impactor chamber, Stock# MCC143RR (2 Units Available)

[Click Here For More Details](#)


**2016 McCloskey 36x80W Stacking Conveyor**  
Designed for high-capacity stockpiling operations (variety of sizes and options in stock), 1,107 Hrs, Stock#MCC115RR

[Click Here For More Details](#)


**2009 McCloskey J50 Jaw Crusher** (2 Avail.)  
CAT Engine, high efficiency diesel hydraulic system allows higher throughput, Stock#MCC544RR

[Click Here For More Details](#)


**2015 McCloskey S130 3 Deck Screen** (5 Avail.)  
High Energy 14x5 Screenbox, 2,408 Hrs, Stock#MCC188RR

[Click Here For More Details](#)


**2015 McCloskey R105 Scalping Screen** (4 Avail.)  
High Energy 4.5'x12' Screenbox with 10mm throw provides the most aggressive screening action in its class; compact transport size, 2,268 Hrs, Stock#MCC219RR

[Click Here For More Details](#)


**1996 Re-Tech 720 Trommel Screen**  
5th wheel; new main hydraulic pump; 1/2" screen, good condition, John Deere Engine, can be seen in operation 5,500 hrs., Stock #CE338RR

[Click Here For More Details](#)


**2013 Cemco AEV 80 VSI**  
Anvil and shoe set up Stock #CE104RR

[Click Here For More Details](#)


**2012 Terex Finlay 1175 Jaw Crusher**  
Scania 9.3 Engine, 3,564 hrs, Stock #CE349RR

[Click Here For More Details](#)


**2015 McCloskey 621RE Trommel**  
(3 Avail.) Suited for large, heavy duty applications. 2,003 hrs. Stock #MCC125RR

All Equipment Subject to Availability.

**McCloskey**  
Authorized Dealer

**Toll-Free 877-217-4474**  
**commonwealthequipment.com**

**TESAB**  
ENGINEERING LTD.  
Authorized Dealer

### AUTO from 10

#### Balancing the viable with the possible

Automation for its own sake isn't viable – it needs to add commercial value for customers and operators. That's our challenge now – we have all these amazing technologies but the market needs to realize the potential of the technology. We need to be careful – investments are high and volumes are relatively low. As a result, automation in the construction industry can only move as fast as the correlation between development costs, productivity gains and affordability allow.

#### The path to greater autonomy

In most cases there is unlikely to be a one-step jump into fully autonomous machines – the journey toward it will come in stages. Most probably there will be a number of (largely repetitive) applications that can be done fully autonomously, while others remain semi-autonomous for the foreseeable future – helping operators avoid mistakes or become more efficient.

#### The future of the operator: Discuss

Operators are around for a long time yet. The role of automation will be to remove repetitive tasks and allow operators to do a better job. Far from deskilling them, automation allows operators to upskill, increase quality and efficiency – making every operator into the best operator possible.

#### Conclusion

The advance of automation is inevitable – but is not without its challenges. It involves introducing modern technologies into an industry where working practices have not changed much in half a century. It will involve a mind shift for all concerned. ■



A WIRTGEN GROUP COMPANY



# THE EVOLUTION OF INNOVATION.

THE EVO-LINE FROM KLEEMANN



**EVO**

**IT'S ALL ABOUT EVOLUTION.** The demands placed on plants in the contracting sector are high: maximum output matched with cost-effective operation – and all for the most diverse applications. This is exactly what distinguishes KLEEMANN EVO-Line plants. Thanks to highly innovative solutions, such as an advanced material flow concept, continuous feed system, outstanding safety concepts and many more, KLEEMANN's EVO-Line mobile jaw crushers, impact crushers and cone crushers deliver a solid plus in performance, efficiency and versatility. Progress calls for real innovation – the KLEEMANN EVO-Line.

► [www.wirtgen-group.com/america](http://www.wirtgen-group.com/america)

**WIRTGEN AMERICA, INC.** · 6030 Dana Way · Antioch, TN 37013 · Telephone: 615-501-0600

1001 Lehigh Station Road  
Henrietta, NY 14467  
585-334-3867 • 866-683-5338  
serb@monroetractor.com  
monroetractor.com

6 Equipment Dr., Binghamton, NY 13904  
607-754-6570 • 866-321-4277  
serb@monroetractor.com

5035 Genessee St, Buffalo, NY 14225  
716-681-7100 • 800-834-9606  
bklementowki@monroetractor.com

8194 State Route 415,  
Campbell, NY 14821  
607-739-8741 • 800-866-8912  
kbower@monroetractor.com

7300 Eastman Rd,  
N. Syracuse, NY 13212  
315-452-0000 • 800-287-5286  
mwisniewki@monroetractor.com



**MONROE TRACTOR**  
— we keep you working —



# Philippi-Hagenbuch innovates new tailgate style for Komatsu rigid frame trucks

PEORIA, IL – Philippi-Hagenbuch Inc. has revolutionized a new version of their Autogate® Tailgate – a PHIL innovation unveiled 50 years ago specifically for Komatsu rigid frame trucks. With its introduction in 1969, PHIL's Autogate Tailgate was the first commercially available tailgate and has since become the de facto standard in off-highway truck tailgates utilized in quarries and mines around the world.

PHIL unveiled this newest version of the Autogate Tailgate at the 2019 AGG1 Academy & Expo.

The new design reflects PHIL's commitment to keep pace with client feedback and constantly innovate new ideas to maximize efficiency and minimize maintenance on the ever-changing models of off-highway haul trucks available.

PHIL's new Autogate Tailgate for Komatsu rigid frame trucks is designed with a traditional outrigger that bolts to the undercarriage of the off-highway truck. This new design does not require any welding to the frame, allowing operators to retain Komatsu's original OEM truck frame warranty. The design's new "banana superstructure" provides the stability, quality and structural integrity that Philippi-Hagenbuch is known for without sacrificing best-of-class opening clearance at full dump. The new design minimizes frustrations of end-user service departments concerning premature tailgate chain wear and roller-box maintenance found previously on tailgates designed for Komatsu rigid frame trucks.

As with PHIL's entire line of Autogate Tailgates, a three-year warranty is standard when installed with PHIL Installation Supervision Assistance or at their Peoria, IL, factory. Optional body seals, fluidic seals and cushion pads are available to further customize PHIL's Autogate Tailgates for unique applications. When capacity is a concern, the PHIL Autogate Tailgate for Komatsu rigid frame trucks can also be built up for sideboards. Sideboards are available in one-inch increments from 6 inches to 40 inches in height and provide a unified body height while increasing the volumetric capacity of the truck body, helping operators achieve optimal loads.



*Philippi-Hagenbuch's newest Autogate® Tailgate innovation is designed with a traditional outrigger that bolts to the undercarriage of the off-highway truck, allowing operators to retain Komatsu's original OEM truck frame warranty.*

The newest Autogate Tailgate and its full slate of options are available for order on Komatsu HD405-8, HD465-8 and HD605-8 haul trucks. Retrofit kits to convert legacy tailgates for Komatsu HD series rigid frame trucks in -5, -7 and -7EO models will be available in late spring 2019. ■



*Philippi-Hagenbuch Inc. unveils a new version of their Autogate® Tailgate specially designed for Komatsu rigid frame trucks.*

*Photos courtesy of PHIL*



**Stocking Equipment Dealer**  
Yemassee, SC 29902  
**843-525-6140**  
**sales@sandscience.com**  
**www.sandscience.com**



61 Silva Lane, Dracut, MA 01826  
**978-454-3320**  
**gilda@equimenteast.com**  
**www.equimenteast.com**

1474 Route 3A, Bow, NH 03304  
**603-410-5540**



1772 Corn Rd., Smyrna, GA 30080  
**770-433-2670**  
**sales@grindercrusherscreen.com**  
**grindercrusherscreen.com**



2351 Woodcrest Drive, Winter Park, FL 32792  
**407-468-6437**  
**diversifiedecological@gmail.com**  
**diversifiedecological.com**

**Ed's Equipment, Inc.**  
4567 East 71st, Cleveland, OH 44105  
**330-620-9993**  
**ed@edsequimentinc.com**

**Keestrack USA Parts**  
Phone: +1 940-482-4004  
Mob: +1 940-600-2034  
Fax: +1 940-482-3005

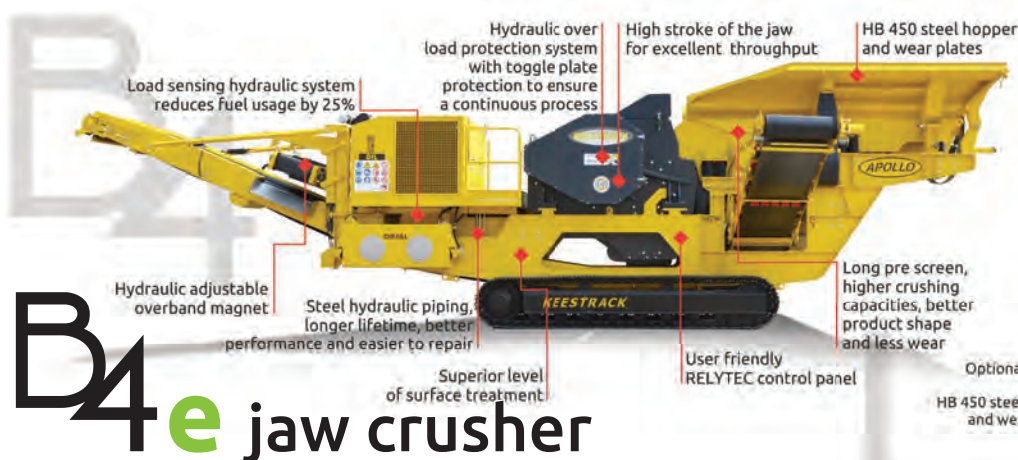


# Performance in every detail



Mobile crushing & screening  
24/7 Remote monitoring  
Fuel efficient & hybrid systems  
Minimum cost of ownership

Contact your nearest Keestrack dealer for more details



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

**H4e cone crusher**







## Solutions for finding skilled labor

*Companies need a well-defined strategy for approaching military veterans as prospective employees.*

[Source: conexpoconagg.com](http://conexpoconagg.com)

The construction industry's skilled labor shortage is costing it huge amounts of money.

Just how much money, exactly?

In the case of equipment repair technicians alone, a 2015 study conducted by the College of William & Mary on behalf of the Associated Equipment Distributors (AED) estimated that the technician shortage was costing the heavy-duty equipment distribution industry more than \$2.4 billion per year in lost revenue.

That's just equipment technicians. What about all of the other occupations that require special skillsets? The financial losses become even more jaw-dropping.

The skilled employee shortage could be growing even worse. Construction industry companies, particularly equipment dealers and distributors, are bracing for roughly 10 percent of their workforces to retire by the year 2022. On top of that, two-year college enrollment is lagging far behind four-year colleges. Other technical vocations such as automotive repair are also feeling this trend, creating intense competition for what skilled labor candidates do exist.

Construction industry companies that don't want to fall victim to the skilled labor shortage need to think about their strategies for recruiting employees. The sources and methods relied upon in the past may no longer work.

### Causes of the skills gap

There is a lack of people with the required "hard skills." In years past, a solid pool of construction industry candidates were younger people who'd grown up on farms. That pool is much smaller today. Similarly, there aren't as many small diesel repair shops as in the past.

Technician issue has always been a local problem. Many up-and-coming repair technicians go away to school but want to come back home to find a job. In many instances, the end result is a dealership hiring a great employee, only to see them quit a year or two later.

Parents prefer four-year schools. The phenomenon of the 1990s still exists today: Parents push their children toward four-year degrees. In many instances, though, a young person would be better served to pursue a two-year degree that offers great career opportunity in a certain occupation.

Recruiting starts too late. The construction industry hasn't been aggressive enough in its outreach to high school guidance counselors. The thought today is that outreach must begin when students are still in middle school. These young minds need construction industry exposure much earlier than they have been getting it. So do the educators who are teaching and advising them. When everyone understands the opportunities in construction, the likelihood is greater that CTE (career and technical education) programs will continue to be offered.

Federal programs such as the Perkins Act, which provide funding for technical education, have been reinvigorated. Perkins also promises that employers will have an instrumental voice as to how state funds are allocated. Thus, it is very important for the construction industry – state by state – to speak with a strong, unified voice.

"The AED now has a 50-state playbook that tells you where the funds are going, who's getting them and how much they are – and how we can help ourselves," said Robert Henderson, executive vice president and COO of AED.

Another common practice is for employers to contact schools shortly before graduation to ask if any students are looking for employment. With the labor shortages across so many industries, it's unlikely that this tactic will produce the desired results going forward.

"If you're asking for students at this point in time, the answer could very well be 'none,' or at the least, 'very few,'" said Terry Marohl, associate professor/chair of transportation, North Dakota State College of Science. "And for the students who are left, there's probably a reason that they don't have a job yet."

One of the challenges with this outdated approach is that a graduating student likely knows very little about the company recruiting them. Likewise, the company likely knows very little about the student, i.e. background, interests, personality, etc. This is another reason why it's important to start the recruiting process earlier than in the past.

### Tips for starting outreach earlier

Companies should identify and begin recruiting local individuals before they begin college. This will help ensure that the student has a better understanding of a company when it comes time to graduate and enter the workforce.

"If you identify local people who'd be a great fit for a com-

pany, and encourage them to go to school to get training, they may have to go away to school, but they can then come back to you when they graduate to begin work," Marohl said. "You have a much greater chance of retaining that type of employee."

"Hiring local individuals is like growing your own employees," Marohl continued. "A lot of dealerships are now talking with juniors and seniors in high school to generate some interest in this type of career, and to see which students may have a knack for what they'll need to do."

As for outreach to college students, companies should work to recruit and identify potential employees in their first year of school, as opposed to weeks or days before they graduate. Then, companies should begin attending career fairs for not only graduating students, but also students just beginning college who may be seeking part-time or summer employment. Internships can be a very effective tactic.

There are many advantages to conducting student outreach earlier in the student's career:

- Build a better relationship with a student
- Allow both student and employer to determine if they are a good fit
- Work with a school to help tailor a student's education to the needs of the industry and a specific job

Staying engaged with the student throughout their academic career is important. Companies can get involved with clubs and other student organizations, helping to sponsor events or provide guest speakers. Some companies also arrange field trips to either the company itself or other industry events, for example.

### Why companies should hire military veterans

According to David Coe, senior vice president of strategic programs for Orion Talent, military veterans are proven to perform 4 percent better than the average employee. Additionally, turnover among veterans is 3 percent lower. Construction industry companies that can effectively recruit, assimilate and retain military veterans into their organizations can make great strides in closing the skilled labor gap.

The challenge for employers is that demand for military talent is also at an all-time high. Companies need a well-defined strategy for approaching military veterans as prospective employees. The good news is that, according to Coe, the construction industry is very appealing to military veterans.





*Companies should identify and begin recruiting local individuals before they begin college.*

Orion Talent helps employers find the best way to hire military veterans. Coe himself is a retired active-duty U.S. Marine Corps officer and understands the process very well. He points to several best practices Orion Talent has identified.

Create a military talent program. Companies should involve all key decision-makers in the development of that plan. That includes human resources, operations, etc. Make it about your company, not what other companies are doing in the way of military veteran outreach.

Understand military talent. Companies should focus on gaining a clear understanding of the backgrounds and skillsets each veteran is suited to. That helps match the right people to the right positions.

Develop a branding and outreach campaign. Traditional recruiting methods typically don't work well when it comes to military talent. It's important to reach veterans where they are, keeping in mind the uniqueness of their job search situation.

Make onboarding a priority. It's important to properly assimilate a veteran into your organization. Companies can create mentoring programs and networking opportunities to help veterans transition into not only the company but the civilian world in general. Companies should also pay attention to benefits that will appeal to veterans.

Set measurable goals and objectives. Companies should identify and track key metrics including hiring, performance and retention. Here are some key metrics to keep in mind:

- Most veterans go from first interview to accepted offer in under 35 days
- Interviews take place within 20 days of application
- Hiring managers respond in one or two days
- Time to selection is two to four days

It's important to keep these metrics in mind because, as pointed out, demand for military talent is higher than ever. Companies that fail to act in a fast, compelling fashion will likely miss out on great talent.

#### **Avoiding bad hires**

Hiring employees costs a lot of money. According to Jerry Randecker of Jordan-Sitter Associates, an employee recruiting firm, that cost can range from 16 percent for entry-level employees to 213 percent for senior management. Those costs mount as a result of job postings, administration, employee training and everything else that goes along with hiring a new employee.

With that kind of money involved, companies cannot afford to make bad hires they end up having to replace.

#### **How do companies avoid making bad hires?**

"In many situations, it's best to not hire at all than to hire simply the best person you have available," Randecker said. In other words, it's important to avoid the desire to settle. Companies need to find an ideal match. "In today's environment of low unemployment

ment, this is getting more difficult to do. It's now a full-time occupation to keep good talent coming along," Randecker pointed out.

There are some core best practices that can help companies find their ideal match.

Have a well-defined job description – then the employer knows precisely what it is looking for.

Identify good candidates through multi-faceted recruiting – job postings, temp agencies, trade schools, specialized recruiting firms, etc.

Don't forget about referrals and word of mouth – statistics show that many younger employees found their last job through a social network such as Facebook or LinkedIn. Internal job postings can also prove very effective these days. Local organizations and churches, etc., can also be great sources of potential employees.

Have a plan and prepare for interviews – proper questioning of a candidate helps get beyond what they want you to hear and have prepared for. "You need to spend some time with people to really learn about who they are," Randecker pointed out.

Don't rely too much on interviews though – "It's amazing what you'll find out about a candidate by simply doing a Google search after the interview," Randecker said.

Employee assessments are also important – references, drug tests, criminal record, driving record, etc. This is especially important when hiring lower-paying, entry-level employees. "As you go through the hiring process, don't take anything for granted and check all the boxes," Randecker advised.

Put job offers in writing – this is to make sure everyone is on the same page with respect to pay and benefits, etc.

Follow-up with employees daily, monthly and annually – and it doesn't have to be a formal review every time. "If you're hiring someone for the long-term, though, there needs to be constant communication," Randecker said. Just checking in to see how things are doing can be very effective in encouraging employees to stick around.

Online job boards such as Monster, Career Builder, Indeed and Craigslist can yield good results, but companies have to expend some effort. These popular websites will often generate a large volume of applicants, but many may be ill-suited to the job you are looking to fill. Again, it's important to have a well-planned recruitment strategy – complete with well-defined job descriptions and job requirements – in order to generate as high a concentration of good leads as possible.

Companies are having to work harder than ever to assemble teams in the current low-unemployment economy. Having a good strategy and following proven best practices can help – with lasting, positive results. It just takes a little time and dedication to develop the strategy, along with a willingness to think a bit outside the box and recognize that what has worked in the past, may no longer suffice. ■





# THE R REVOLUTION BEGINS.

## INTRODUCING BOBCAT **R**-SERIES EXCAVATORS

Robust. Remarkable. Revolutionary. However you describe them, R-Series compact excavators are the best yet from Bobcat Company. R you ready for the revolution?

► Take a closer look at NEW  
R-Series compact excavators:  
**[Bobcat.com/MyR-Series](http://Bobcat.com/MyR-Series)**

Bobcat®, the Bobcat logo and the colors of the Bobcat machine are registered trademarks of Bobcat Company in the United States and various other countries.  
©2017 Bobcat Company. All rights reserved. | 53663-8



**Bobcat®**

*One Tough Animal.*

Authorized Bobcat Dealers

### CONNECTICUT

**Bobcat of Connecticut, Inc.**  
East Hartford  
860-282-2648  
[www.bobcatct.com](http://www.bobcatct.com)

### Bobcat of Stratford Stratford

203-380-2300  
[www.bobcatct.com](http://www.bobcatct.com)

### MASSACHUSETTS

**Bobcat of Greater Springfield**  
West Springfield  
413-746-4647  
[www.bobcatct.com](http://www.bobcatct.com)

### Bobcat of Worcester Auburn

508-752-8844  
[www.bobcatct.com](http://www.bobcatct.com)

### NEW JERSEY

#### Bobcat of North Jersey Totowa

973-774-9500  
877-9-BOBCAT  
[www.njbobcat.com](http://www.njbobcat.com)

### NEW YORK

#### Summit Handling Systems Inc. Walden

845-569-8195  
[www.summitbobcat.com](http://www.summitbobcat.com)

#### Warner Sales & Service Rome

315-336-0311  
[www.warnerss.com](http://www.warnerss.com)

### RHODE ISLAND

#### Bobcat of Rhode Island Warwick

401-921-4300  
[www.bobcatct.com](http://www.bobcatct.com)



## Pioneering dust suppression firm sponsors mining scholarship

PEROIA, IL – A global innovator in dust suppression technology has established a memorial scholarship fund in honor of one of the company's founding members to support mining engineering education at Missouri University of Science and Technology in Rolla, MO. Sponsored by BossTek, the Barry Eaton Brown Memorial Scholarship is available to mining engineering students who demonstrate a need for financial assistance.

"The scholarship is an opportunity for us to help support students in mining, which has been part of the foundation of our company since its inception," observed BossTek CEO Edwin Peterson, who is also a third-generation owner of Martin Engineering. "It's also a way for us to honor the memory and career of our friend and mentor, Barry Brown, a significant influence on dozens of people who went on to make significant contributions to

the mining industry."

Missouri S&T was founded as the Missouri School of Mines and Metallurgy (MSM) in 1870 – the first technological institution west of the Mississippi, and one of the first in the nation. Early academic programs focused on the state's mining industry and its immediate technological needs, but by the end of the 1920s courses of study included mining, civil, mechanical, electrical and chemical

engineering as well as chemistry, metallurgy, mathematics, physics and geology.

In 2008, the school became Missouri University of Science and Technology (Missouri S&T) to reflect its growing reputation as one of the nation's leading technological research universities. The university has approximately 6,800 undergraduate and 1,800 graduate students, and offers 99 degree programs in 40 areas of study. ■



Barry Brown influenced multiple generations in the mining industry. (L - R) Rand Peterson, Edwin Peterson and Doug Brown.



Missouri S&T's Experimental Mine features real equipment and mining practices.

Photos courtesy of BossTek

## JY Voghel Inc. announced as new Cedarapids distributor

JY Voghel Inc. has been announced as the Cedarapids Distributor for the Quebec province in Canada.

Voghel has specialized in the supply of heavy equipment for the environment and construction industries throughout the Quebec province since 1996. Their approach is to provide their customers with innovative equipment that gives them high-value-added materials and the company places a lot of focus in providing first-rate after-sales service.

"Voghel is a great fit for the Cedarapids brand due to their experienced sales force and quality of their service – from purchase right through to after the sale. With a team of product specialists, qualified technicians, a large stock of parts and the expertise of their staff, we look forward to Voghel offering unparalleled support to our customers," said Jeff High, Terex Cedarapids sales manager.

er.

Vice President of Strategic Development for Voghel Pascal Gosselin remarked, "Being already dedicated to the crushing, screening and environmental industries with mobile equipment, Cedarapids brings to Voghel not only solutions to address the needs of our existing clients but also to address new clients, such as major quarries and mines. Our decision to add the Cedarapids product line to our portfolio is based on high-end testimonials on the quality of their products and also their confirmation of how Cedarapids has been a key part of their success. We are confident that, through our constant investment in aftersales parts and service, combined with Cedarapids' constant investment in product development, we will further enhance our ability to meet the needs of our existing clients as well as future new partners." ■



Voghel has specialized in the supply of heavy equipment for the environment and construction industries throughout the Quebec province since 1996.

Photo courtesy of Voghel



# ADVERTISE IN RockRoadRecycle.com



YOUR DYNAMIC NEWS RESOURCE FOR THE AGGREGATE,  
HEAVY CONSTRUCTION AND RECYCLING INDUSTRIES.

Log in to [rockroadrecycle.com](http://rockroadrecycle.com) for  
a **FREE** subscription.

## MAY - Editorial Focus

Maintenance Equipment/Power Transmission  
Deadline 4/18/19

## JUNE - Editorial Focus

Loaders & Excavators/Haul Trucks/Wear Parts  
Deadline 5/16/19

## JULY - Editorial Focus

Remote Control Operations/Technology  
Deadline 6/20/19



STAVOLA'S BOUND BROOK  
TAPS INTO PROFIT THROUGH  
NEW EMERALD WASH PLANT

FYE EXCAVATING: IT ALL  
STARTED WITH A BACKHOE

GOING GREEN WITH  
SENN BLACKTOP

ADVERTISE YOUR  
EQUIPMENT & SERVICES

INSERT YOUR BROCHURE  
IN OUR DIGITAL PUBLICATION

POST YOUR VIDEOS

PROMOTE YOUR AUCTION

1-800-218-5586  
[info@rockroadrecycle.com](mailto:info@rockroadrecycle.com)





# Volvo CE machines win EquipmentWatch's highest retained value and lowest cost of ownership awards

The leading data researcher for the construction equipment industry EquipmentWatch has selected two Volvo CE machines for its 2019 Lowest Cost of Ownership Awards and one Volvo CE wheel loader model for the 2019 Highest Retained Value Awards. The prizes underscore Volvo CE's commitment to providing the highest uptime in the industry and the best value at every stage of a machine's lifecycle. It's the fourth straight year that EquipmentWatch recognized Volvo CE with awards.

The EC700 series crawler excavator and the L180 wheel loader both received a Lowest Cost of Ownership Award while the L20 wheel loader was given a Highest Retained Value Award.

The EquipmentWatch annual awards are based on extensive analysis of millions of data records to determine which model series retain the highest percentage of its original value and lowest five-year total cost of ownership. EquipmentWatch analysts looked at the most popular equipment series observed on the resale channel over a 12-month period in 2018. Volvo CE's machines were chosen for their projected value retention over a five-year period.

"We are honored to receive these awards and appreciate that EquipmentWatch is providing such an insightful service to the industry," said Stephen Roy, president, sales region Americas, Volvo CE. "We are dedicated to achieving the highest lifecycle values in the industry. By awarding Volvo CE, EquipmentWatch's analysis of ownership provides that our values are appreciated in the marketplace and that we are delivering well against them."

Volvo CE's EC700/EC750E excavators won in the large crawler excavator size class (>50.0 metric ton) category and the L180H wheel loader won in the large wheel loader (>250 hp) category. The L20F/L20H wheel loaders won in the small wheel loader (1-134 hp) category.

"The goal of the EquipmentWatch awards program is not only to help equipment buyers objectively understand the best performing machines," said Garrett Schemmel, vice president, EquipmentWatch. "The program is also designed to recognize manufacturers for building these higher quality, durable and cost-friendly machines that power our industry." ■



*Volvo CE's machines were chosen for their projected value retention over a five-year period.*



*The EC700 series crawler excavator and the L180 wheel loader both received a Lowest Cost of Ownership award.*



*Photos courtesy of EquipmentWatch*





To Place A Classified Ad Phone 1 (800) 836-2888 • Fax (518) 673-2381 • E-mail: [classified@leepub.com](mailto:classified@leepub.com)

RRR Mailing Address Classifieds,  
PO Box 121, Palatine Bridge, NY 13428

#### Number / Classification

- 20 Air Compressors
- 25 Air Tools
- 35 Announcements
- 45 Antiques
- 55 Appraisal Services
- 60 Asphalt Equipment
- 70 Attachments
- 80 Auctions
- 85 Backhoe/Loaders
- 135 Bits
- 150 Buckets
- 155 Building Materials/Supplies
- 157 Building Repair
- 160 Buildings For Sale
- 165 Business Opportunities
- 190 Chain Saws
- 200 Chippers
- 220 Compaction Equipment
- 225 Composting Equipment
- 230 Compressors
- 240 Concrete Mobile Mixers
- 245 Concrete Products
- 255 Construction Demolition
- 265 Construction Eq. For Rent
- 270 Construction Eq. For Sale
- 275 Construction Machinery Wanted
- 277 Construction Services
- 278 Construction Subcontracting
- 280 Construction Supplies
- 300 Conveyors
- 310 Cranes
- 320 Crushing Equipment
- 375 Dozers
- 400 Drills
- 415 Employment Wanted
- 425 Engines
- 430 Excavators
- 470 Financial Services
- 494 For Lease
- 495 For Rent
- 505 Forklifts
- 535 Generators
- 550 Gradalls
- 555 Graders
- 610 Help Wanted
- 635 Hoists
- 705 Legal Notices
- 745 Loaders
- 760 Lumber & Wood Products
- 780 Maintenance & Repair
- 800 Mine Equipment
- 805 Miscellaneous
- 880 Parts
- 885 Parts & Repair
- 890 Pavers
- 925 Pressure Washers
- 950 Real Estate For Sale
- 955 Real Estate Wanted
- 975 Rentals
- 997 Safety Equipment
- 1017 Scrapers
- 1020 Screening Equipment
- 1040 Services Offered
- 1085 Snowplows
- 1097 Sprayers
- 1105 Sweepers
- 1120 Tools
- 1130 Tractors
- 1140 Trailers
- 1145 Training
- 1170 Truck Parts & Equipment
- 1175 Trucking
- 1180 Trucks
- 1205 Wanted

#### Announcements

## ADVERTISING DEADLINE

Thursday, April 18, 2019

For as little as \$10.00 - place a classified ad in

## Rock Road Recycle

Call Peg at **1-800-836-2888**

or **518-673-0111**

or email [classified@leepub.com](mailto:classified@leepub.com)

## 33rd ANNUAL HARD HAT EXPO

Located in the  
**NEW EXPO CENTER**  
**NYS FAIRGROUNDS**  
581 State Fair Blvd  
Syracuse, New York 13209

**APRIL 3 - 4, 2019**

**Wednesday 8 AM - 4PM**

**Thursday 8 AM - 3 PM**

**www.hardhatexpo.com**  
**800-218-5586**

Hard Hat Expo Produced by the  
Trade Show Division of Lee Newspapers, Inc.  
Sponsored by: [www.rockroadrecycle.com](http://www.rockroadrecycle.com)

#### Announcements

**CHECK YOUR AD - ADVERTISERS** should check their ads on the first week of insertion. Lee Newspapers shall not be liable for typographical, or errors in publication except to the extent of the cost of the first weeks insertion of the ad, and shall also not be liable for damages due to failure to publish an ad. Adjustment for errors is limited to the cost of that portion of the ad wherein the error occurred. **Report any errors to Peg Patrei at 518-673-0111 or 800-836-2888.**

#### ★ ★ ★ ★ ★ ADVERTISERS

Get the best responses from your advertisements by including the age, condition, price and best calling hours. Also, we always recommend insertion for at least 2 issues for maximum benefits. **Call Peg at 1-800-836-2888**

#### Building Materials/Supplies

INSULATION: 1/2" to 4" 4x8 sheets foam insulation. Large quantities available. Discount Pricing. James Weaver, 607-659-7409

#### Announcements

#### Buildings For Sale

#### Buildings For Sale

#### Construction Equipment

IR COMPACTOR SD100, \$28,500; Cat dozer D6H LGP, 6241 hrs., \$65,000; D6D 3206 hrs., severe duty tracks at 60%, straight blade w/tilt & root rake blade, \$36,000; Bobcat 773 high flow hyd. GT bucket & forks, \$9,500; Bobcat S300 GP bucket & forks, \$21,000; Cat wheel loader, 922B, \$11,000; 1000 gallon fuel tank w/containment, \$1,400. Best offers. 585-721-0515



#### Custom Services

**BUSINESS CARDS: 1,000 for only \$60.00, full color glossy.** Give us your existing card or we will design one for you! **FREE SHIPPING** included. Call Lee Newspapers at 518-673-0101 or email [commercialprint@leepub.com](mailto:commercialprint@leepub.com)

## Professional Pole Barns by S&L Builders

We build what we sell  
No Sub Crews

Booking 2019 Projects Now

Any Size Or Description of Building  
Most Structures Erected Within 30 Days  
Beat Our Price? I Don't Think So!

**570-398-2234 Office**

**570-660-6832 Cell**

[www.slbuiltersllc.com](http://www.slbuiltersllc.com) PA094334

#### Buildings For Sale

POLE BARN PACKAGES, metal roofing & siding. Great prices! Homeowners & contractors welcome. All pole barn packages include detailed plans and drawings. Mountain-top Enterprises, 2726 State Hwy. 7, Bainbridge, NY 607-967-4877 [www.metalroofingandmetalsiding.com](http://www.metalroofingandmetalsiding.com)



#### Construction Equipment

Couple Hundred of dozers, skid loaders, backhoes. Several older trucks and cars. Screening plant, large excavator, parts machines, much more. 518-634-2310

#### Building Materials/Supplies

#1-40YR PAINTED STEEL, galvanized & galvalume, also #2 available w/all trim & accessories. Complete Building Packages. Before you buy call Mohawk Metal Sales, 315-853-ROOF(7663)



#### Building Materials/Supplies

#### Building Materials/Supplies

## D&J Supply LLC

26 & 29 Ga. Metal Roofing & Siding  
Pre-Engineered Trusses  
Pole Barn Packages - Any Size  
~ Direct Shipments ~

Call Us for Your Building Needs

Located in Central New York

**518-568-3562**

#### Construction Machinery Wanted

#### Construction Machinery Wanted

## WANTED TO BUY Construction & Manufacturing Equipment ANY AGE OR CONDITION

**CASH BUYER**  
**518-848-4669**

#### Construction Services

#### Construction Services



## Zimmerman Repair

All types of AG and Construction  
Equipment Repair.

Penn Yan, New York  
315.536.6040

#### Custom Services

#### Custom Services

## Nolt Welding and Machine

Drilling  
Threading  
Lathe Work  
Keyway Cutting  
CNC Machining



Tappings  
Welding  
Turnings  
Deburring  
Prototypes

**Marlin Nolt**  
3329 Depew Road  
Canandaigua, NY 14424

Production Lines  
Phone (585) 526-6004  
Fax (585) 526-6611

**1-800-836-2888**



To Place A Classified Ad Phone 1 (800) 836-2888 • Fax (518) 673-2381 • E-mail: [classified@leepub.com](mailto:classified@leepub.com)

HARD HAT NEWS CLASSIFIED SECTION

Mailing Address: Hard Hat News Classifieds, PO Box 121, Palatine Bridge, NY 13428

EnginesEngines



**Carl McQuillen**  
ENGINES INC

- Block & Cylinder Head Reconditioning
- Crank Shaft Grinding
- Shaft Repair
- Engine Kits

(585) 768-2322  
[www.mcquillenengines.com](http://www.mcquillenengines.com)  
8171 East Main Road Le Roy, NY 14482





FencingLumber & Wood Products

LOCUST POSTS, POLES, Split Rails, 6x6's, 4x4's, other hardwood boards and planks, custom cut. Also lots, land cleared, woodlots wanted. 518-883-8284.



**WE WANT YOU** to sell us your **WOOD**

*We buy heart pine, fir, oak, & other species.*

800-951-9663  
[michele@pioneermillworks.com](mailto:michele@pioneermillworks.com)



GunsMiscellaneous

McCarthy Guns. 217 Erie Blvd. Canajoharie. 518-673-4867. [www.mccarthyguns.com](http://www.mccarthyguns.com). We pay top dollar for guns. Buy, Sell, Trade.

**BUSINESS CARD MAGNETS** only \$75.00 for 250. Free Shipping. Call Lee Publications at 518-673-0101. Please allow 7-10 business days for delivery.

Help WantedHelp Wanted

Need to Hire Someone?  
Looking For Your Next Star Employee?

Check out the



**ROCK ROAD RECYCLE**  
**JOB BOARD**  
Go to  
**jobs.hardhat.com**

Services OfferedTrailers

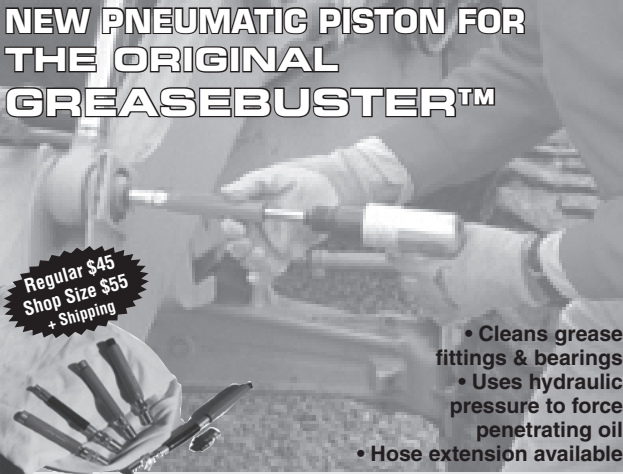
Corrugated Signs, Labels, Magnets, Business Cards, Rack Cards, Banners, Postcards, Flyers/Brochures, Business Forms, Non-Carbon Reproduction Forms (NCR), Signs, Pull-Up Banner Stands, Feather Banner Stands, Door Hangers, Envelopes, Invitations, Posters, Calendars, Self-Inking Stamps. *Call with your needs.* Lee Newspapers Inc. 518-673-0101 or [commercialprint@leepub.com](mailto:commercialprint@leepub.com)

SELF INKING STAMPS, \$23.00 + Shipping. All sizes. Call Lee Newspapers 518-673-0101 or email [commercialprint@leepub.com](mailto:commercialprint@leepub.com)



ToolsTools

**NEW PNEUMATIC PISTON FOR THE ORIGINAL GREASEBUSTER™**



Regular \$45  
Shop Size \$55  
+ Shipping

- Cleans grease fittings & bearings
- Uses hydraulic pressure to force penetrating oil
- Hose extension available


Patented **THESE TOOLS HAVE 25 YEARS EXPERIENCE**

**Grease Buster Tools**  
"THE ORIGINAL"  
20 YEARS OF SATISFIED CUSTOMERS

Made in the USA  
by a Farmer for a Farmer  
PO Box 120 • Waynesville, OH 45068  
513-897-5142 (phone & fax)  
513-312-5779 (cell phone)  
[www.greasebuster-tools.net](http://www.greasebuster-tools.net)


TrailersTrailers

**SPECIAL OF THE WEEK**



**NEW PJ Gooseneck 102"x25'**  
20' flat deck + dovetail with 3 spring assist fold over/stand up ramps, 15,680lb GVW, double jacks, LED lights, locking toolbox, spare tire & wheel  
**\$7,050**

**Midlakes Trailer Sales**  
"We'll hook you up"  
1595 Yale Farm Rd., Romulus, NY 14541  
Toll Free 888-585-3580 ~ 315-585-6411



TrucksTrucks

**Martin's Farm Trucks, LLC**  
*Trucks for All Your Needs - Specializing in Agri-Business Vehicles*



2007 Freightliner Columbia, 14L Detroit, Jake, 10sp, 12/40k axles, air susp, 3.91 ratio, 171" WB, 738k mi **\$17,900**



2006 Mack Granite CV713 AMI-370, Jake, Mack 10sp, 20/46k axles, Hend. Primaax air susp, Quadlock, 264k mi, **\$42,500**

**717-597-0310**

4 Easy Ways To Place A ROCK ROAD RECYCLE Classified

1. **PHONE IT IN** - Just give Peggy a call at **1-800-836-2888**

2. **FAX IT IN** - For MasterCard, Visa, American Express or Discover customers... Fill out the form completely and fax to Peggy at **(518) 673-2381**

3. **MAIL IT IN** - Fill out the form, calculate the cost, enclose your check/money order or credit card information and mail to:  
**ROCK ROAD RECYCLE Classifieds,**  
PO Box 121,  
Palatine Bridge, NY 13428

4. **E-MAIL IT IN** - E-mail your ad to [classified@leepub.com](mailto:classified@leepub.com) e-mail or call with your credit card information.

**FOR BEST RESULTS, RUN YOUR AD FOR TWO ISSUES!**

Cost per issue: \$10.00 for the first 14 words, 30¢ each additional word. (Phone # counts as one word)

Number of Issues to Run \_\_\_\_\_

		\$10.00	\$10.30
\$10.60	\$10.90	\$11.20	\$11.50
\$11.80	\$12.10	\$12.40	\$12.70
\$13.00	\$13.30	\$13.60	\$13.90
\$14.20	\$14.50	\$14.80	\$15.10

Name: (Print) \_\_\_\_\_ County: \_\_\_\_\_  
Street: \_\_\_\_\_ St.: \_\_\_\_\_ Zip: \_\_\_\_\_  
City: \_\_\_\_\_ Fax: \_\_\_\_\_  
Phone: \_\_\_\_\_ E-mail: \_\_\_\_\_  
Cell: \_\_\_\_\_

☐ I have enclosed a Check/Money Order  
☐ Please charge my credit card:

☐ American Express ☐ Discover ☐ Visa ☐ MasterCard

Card #: \_\_\_\_\_ Exp. Date: \_\_\_\_\_ (MM/YY)  
\* (REQ.) Card Security Code # \_\_\_\_\_  
Signature: \_\_\_\_\_ Date: \_\_\_\_\_ (for credit card payment only) (MM/YY)



# Never Settle.



## LIEBHERR

### Get More, Do More

The challenging demands of a working quarry require machines that are efficient, long-lasting, and powerful. Liebherr machines for the quarry and aggregates industries are purpose-built to meet those demands. At Liebherr, we have decades of experience developing and producing crawler excavators, wheel loaders and crawler dozers for the quarry industry. Robust components are produced in-house and built to stand up to the toughest environments. The Result? Faster working cycles that put money in your pocket and endurance you can count on for a longer, stronger life. Find your Liebherr dealer at [liebherr.us/dealers-emt](http://liebherr.us/dealers-emt).

**“We haven’t compromised on anything; why should you?”**

#### Tracey Road Equipment

##### Syracuse

6803 Manilus Center Rd, East  
Syracuse, NY 14020

##### Albany

115 Railroad Avenue,  
Albany, NY 12205

##### Batavia

7919 Oak Orchard Road, Route  
98 North, Batavia, NY 14020

##### Binghamton

1523 US-11,  
Kirkwood, NY 13795

##### Queensbury

280 Corinth Rd,  
Queensbury, NY 12804

##### Rochester

300 Middle Rd,  
Henrietta, NY 14467

##### Watertown

19598 Cady Rd,  
Adams Center, NY 13606

**1-800-872-2390**  
**[www.traceyroad.com](http://www.traceyroad.com)**





**Technology improves efficiency,  
helps meet tight deadline**





- Land clearing
- Site prep
- Backhoes



Technology improves efficiency, helps meet deadline

by Jeff Winke

On the cover:  
To perform the earthmoving on the project, Rabb used four large-size Cat-erpillar crawler hydraulic excavators equipped with the Topcon X-53i excavator system and two dozers equipped with Topcon 3D-MC2 systems.  
Photo courtesy of Raab Construction

PG 4

24

Classifieds  
Your source for all things heavy construction

8

Chew it up - smooth it out  
by Jeff Winke



12

On the front lines with Fisher Phillips  
by Travis Vance and Pamela Williams



13

Lift & Move career exploration events set for 2019



26

New Cat® 440 and 450 backhoe loaders deliver performance and comfort



Frederick W. Lee  
Publisher, President

Bruce Button VP, General Manager  
bbutton@leepub.com

Jessica Mackay Production Coordinator  
ext. 137 jmackay@leepub.com

Colleen Suo Editor  
ext. 145 csuo@leepub.com

Gabbie Albrecht Social Media Coordinator  
ext. 163 galbrecht@leepub.com

Ad Sales: 1-800-218-5586

Matt Stanley Sales Manager  
ext. 124 mstanley@leepub.com

Peggy Patrel Classified Ad Manager  
ext. 111 classified@leepub.com

Tina Krieger  
ext. 108 tkrieger@leepub.com

Steve Pelosi  
ext. 166 spelosi@leepub.com

Scott Duffy  
802-484-7240 srduffy@together.net

Andy Haman  
ext. 160 ahaman@leepub.com

Jessica Waite  
ext. 116 jwaite@leepub.com

Christopher Nyce  
267-261-4235 cnyce@leepub.com

Christine Attle  
315-317-0905 christine.leepub@gmail.com

Patrick Burk  
585-343-9721 burk.patrick1956@gmail.com

Free Subscriptions:  
[www.rockroadrecycle.com](http://www.rockroadrecycle.com)  
[rockroadrecycle.com/my-account/](http://rockroadrecycle.com/my-account/)

Mention of product names in articles does not indicate an endorsement.  
We do not guarantee claims stated by advertisers.  
Permission is granted for reprinting of editorial content provided RockRoadRecycle.com is given full credit.

Lee Newspapers, Inc.  
PO Box 121 / 6113 St. Hwy. 5  
Palatine Bridge, NY 13248  
PH 518-673-3237

Associations and affiliations:



Construction Writers Association  
Connecting the Construction Industry





# People in the industry

## CASE announces 2019 Kickstart winner

CASE Construction Equipment has announced the grand prize winner of the 2019 Kickstart Landscape Business Development contest: Daybreaker Landscapes of Union, IL. CASE Kickstart is a business development contest in which

landscaping contractors throughout North America can win a suite of prizes aimed at improving both their technical work and their business practices.

Jeff Rausch of Daybreaker Landscapes was selected for his

drive, his clear vision for his business' future, his ability to persevere through challenges and his eagerness to further learn and grow each aspect of his business. The company specializes in full landscape and hardscape installation, lawn care and snow removal in Northern Illinois. As part of the package, Rausch will get:

- A six-month lease on any CASE compact track loader (CTL) paired with a CASE laser grading box with SiteControl.
- A yearlong consultation with Ken Thomas and Ben Gandy of Enviro Consulting.
- A full set of (6) Crusader Hammer Tools by Pave Tech, Inc.
- Fleet management consultation and recommendations from CASE staff throughout 2019.
- Custom-branded CASE apparel/uniforms for staff.
- Up to five passes to GIE+EXPO 2019 in Louisville, Kentucky.

"The package that CASE has put together matching equipment with business consultation is exactly what I need at this stage in my business development," says Rausch. "I started this business with no capital, no equipment — just a company name, a dream to be my own boss and a strong desire for success. Winning Kickstart, and working with the guys at Enviro, will give me fresh insight into ways to run this business more efficiently and profitably. This package is what I need to build my business to the next level. I am extremely grateful to CASE for selecting me and affording me this amazing opportunity!"

"Jeff has the drive to take the tools provided by Kickstart and apply them in ways that will improve almost every aspect of his business," says Michel Marchand, vice president — North America, CASE Construction Equipment. "We're confident he'll take full advantage of this win and use it to improve his business and the community around him."

Business owners entered the contest by answering basic questions about their operation and describing business goals for the year ahead. For more information on this contest and the entire offering of CASE equipment and business intelligence for the landscaping industry, visit [CaseCE.com/landscaping](http://CaseCE.com/landscaping). ■



Jeff Rausch of Daybreaker Landscapes was selected for his drive, his clear vision for his business' future, his ability to persevere through challenges and his eagerness to further learn and grow his business.

Photo courtesy of CASE CE



## Sales • Service • Rentals Replacement Parts

### EQUIPMENT SPOTLIGHT

[Click Here For More Details](#)



McCloskey I54 Impact Crusher

**2013 McCLOSKEY I54 Impact Crusher**  
3,465 Hrs, CAT C13 Engine, 47"x53" Fourbar impactor chamber, Stock# MCC143RR (2 Units Available)

[Click Here For More Details](#)



**2016 McCloskey 36x80W Stacking Conveyor**  
Designed for high-capacity stockpiling operations (variety of sizes and options in stock), 1,107 Hrs, Stock#MCC115RR

[Click Here For More Details](#)



**2009 McCloskey J50 Jaw Crusher** (2 Avail.)  
CAT Engine, high efficiency diesel hydraulic system allows higher throughput, Stock#MCC544RR

[Click Here For More Details](#)



**2015 McCloskey S130 3 Deck Screen** (5 Avail.)  
High Energy 14x5 Screenbox, 2,408 Hrs, Stock#MCC188RR

[Click Here For More Details](#)



**2015 McCloskey R105 Scalping Screen** (4 Avail.)  
High Energy 4.5'x12' Screenbox with 10mm throw provides the most aggressive screening action in its class; compact transport size, 2,268 Hrs, Stock#MCC219RR

[Click Here For More Details](#)



**1996 Re-Tech 720 Trommel Screen**  
5th wheel; new main hydraulic pump; 1/2" screen, good condition, John Deere Engine, can be seen in operation 5,500 hrs., Stock #CE338RR

[Click Here For More Details](#)



**2013 Cemco AEV 80 VSI**  
Anvil and shoe set up Stock #CE104RR

[Click Here For More Details](#)



**2012 Terex Finlay 1175 Jaw Crusher**  
Scania 9.3 Engine, 3,564 hrs, Stock #CE349RR

[Click Here For More Details](#)



**2015 McCloskey 621RE Trommel**  
(3 Avail.) Suited for large, heavy duty applications. 2,003 hrs. Stock #MCC125RR

All Equipment Subject to Availability.



**Toll-Free 877-217-4474**  
[commonwealthequipment.com](http://commonwealthequipment.com)





## Technology improves efficiency, helps meet tight deadline

by Jeff Winke



The Rabb contract also includes excavating three approximately two-acre stormwater runoff retention ponds.

**D**ilawri is Canada's largest group of auto dealers with franchised dealerships representing 30 automotive brands throughout Quebec, Ontario, Saskatchewan, Alberta and British Columbia. With more than 3,500 employees, Dilawri Group continues to expand its footprint in Canada, building on its 32-year history.

A recent venture unfolded with the construction of a four-dealership auto mall in Barrhaven, ON. Situated in the greater Ottawa area on the northwest corner of Highway 416 and Fallowfield Road the prime location is expected to serve Nepean, Barrhaven, Manotick, South Kanata, and as far south as Kempville.

Dilawri contracted Ottawa-based MB Ford Construction Ltd. as the general contractor and construction management firm for the project. MB Ford specializes in automobile dealerships and auto malls. The company, in turn, sub-contracted the complete site-prep of the 350 meters wide, 450 meters long site to Rabb Construction Ltd., which is located in Richmond, ON.

Founded by two brothers who grew up playing in dirt and who bought their first backhoe while in their early teens, Rabb Construction is a medium-sized heavy-civil contractor serving the greater Ottawa and Eastern Ontario markets. The company was formed in 1992 after the brothers returned from university with their civil engineering degrees.

The new Dilawri Auto Mall is a sizeable, heavy civil site work project for Rabb Construction Ltd. The facilities for the auto mall are situated on approximately 15 acres. Rabb needed to level and grade the former stone quarry for the four auto-dealer elevated building pads and their surrounding inventory lots and customer parking. The Rabb contract also included excavating three approximately two-acre stormwater runoff retention ponds. Rabb is also responsible for constructing the on-site sewage systems.

The project site was once a rock quarry where blasting occurred to excavate the bedrock, which was used to make crushed stone. The quarry was active in the 1970s. The very large open pit was converted into a dump site for clean fill, which benefited all of the local construction contractors.

"We were supplied a full set of design drawings, grading plans, storm water management plans and structural plans, which were completed by a team of consultants and designers," stated Brenda Burrows-Rabb, P.Eng., general manager of Rabb Construction Ltd. "Using this design information, we developed a 3D site model to use with our Topcon GPS machine control system on our equipment. This site model is also available on our Topcon Tesla tablet data collector hand-held rover. Having field access to the site model increased our efficiency and accuracy."

Burrows-Rabb said, "We had a fairly aggressive timetable in order to accommodate the two dealerships that were to be built as soon as we finished the site preparation. Plus, there was a commitment for the third dealership, and we needed to complete enough work on the fourth location to help the owner market it."

It was a frigid day when Rabb Construction Ltd. first arrived on the snow-covered site. The dynamic compaction process was completed first, with the stone building-pad elevated 1- to 2-metres above existing grade. Once the building pads were constructed, the location was ready for the initial site work to begin.

The sequence of tasks that Rabb Construction tackled from day one included:

- Initial site preparation
- STM sewers to manage surface water
- The building excavation, backfill and interior plumbing
- Install the fire tank network — excavation, installation, backfill
- Install the water main for water service and fire protection
- The sanitary sewer system was established
- On-site septic systems installed
- Excavate and shape the storm water retention ponds

To perform the earthmoving on the project, Rabb used four large-size Caterpillar crawler hydraulic excavators including a Cat 321D equipped with the Topcon X-53i excavator system and two dozers — a New Holland DC80 and a Cat D6R high track dozer equipped with a Topcon 3D-MC2 systems. The contractor moved 20,000 to 25,000 cubic meters of material on the Dilawri Auto Mall site. The site is balanced, so it became a matter of relocating the fill material as per the design grades. The grade needed to match the existing grades at all of the property lines.

"The Topcon systems helped us achieve grade on this challenging site and saved us a tremendous amount of time, which has helped us meet the tight deadlines," Burrows-Rabb said. "The ROI on the technology was immediately obvious to us. We don't feel a need to quantify what we already know, which is why we purchased a second unit as quickly as we did."

Help in selecting the GPS machine control systems and training was provided by GeoShack Canada, based in Ottawa. According to Burrows-Rabb, the operator training on the GPS controls made a difference in the confidence

level of using the technology.

"We learned that the Topcon 3D-MC2 dozer system is the latest technology on the market and is said to be twice as fast as any other 3D dozer system. I don't have enough experience with GPS machine control systems to verify — all I know is that it's fast and precise. We've eliminated the necessity for multiple passes and there is no need to revisit any of our work."

The X-53i 3D control for excavators helped increase the Cat 321D's versatility. According to Burrows-Rabb, the system's 3D positioning capabilities helped the excavator for sewer installation for bedding grade, rough grade and "just about every task — it is very useful."

"We knew about Topcon machine control for some time — however, it is an expensive investment," stated Burrows-Rabb. "It became evident as we used it that it is completely worth the capital investment. Our efficiency has greatly improved. For example, with the grading of the parking lot stone the D6R dozer with GPS control can be operated without foreman supervision. This frees up key personnel to complete other required work."

For Rabb Construction, achieving the correct grade according to the provided design drawings and elevations was critical since they were also preparing the sub-grade for the asphalt paving and concrete contractors. All quantities of crushed stone, asphalt and concrete materials to be supplied are based upon the Rabb-produced sub-grade elevation. The elevation needed to be accurate and match the city-approved grading and servicing plans.

Additionally, elevation accuracy on the auto mall site was critical for storm water management and for the septic systems.

As Burrows-Rabb reflected, "We were met with difficult site conditions and a very aggressive schedule. Certainly, having the machine control technology has helped us tremendously. Without it, we would be less efficient and it would have been more difficult to meet the timeline pressures. I'm proud that we've done good work here."

Jeff Winke is a business and construction writer based in Milwaukee, WI. He can be reached through [jeff.winke@yahoo.com](mailto:jeff.winke@yahoo.com). ■



Elevation accuracy on the auto mall site was critical for storm water management and for the septic systems.

Photos courtesy of Rabb Construction Ltd.



# Cemen Tech expands ACCU-POUR™ technology with suite of productivity solutions

INDIANOLA, IOWA – Cemen Tech has introduced AP Office and AP Mobile, a new set of tools in its ACCU-POUR technology suite available for volumetric concrete mixer users. AP Office and AP Mobile are an all-new cloud-based productivity solution that provides users a complete view of their concrete business operations. The ACCU-POUR technology suite is designed to make an impact on operations of all sizes, giving users more control over their business than ever before.

## AP Office

AP Office is the front-end solution for scheduling, dispatch and fleet management functions. Utilizing the latest in telematics technology, the software allows business owners to keep track of the status and location of each mixer in their fleet in real-time. AP Office also documents and stores all key mixer production statistics, which allows users to make accurate real-time business management decisions.

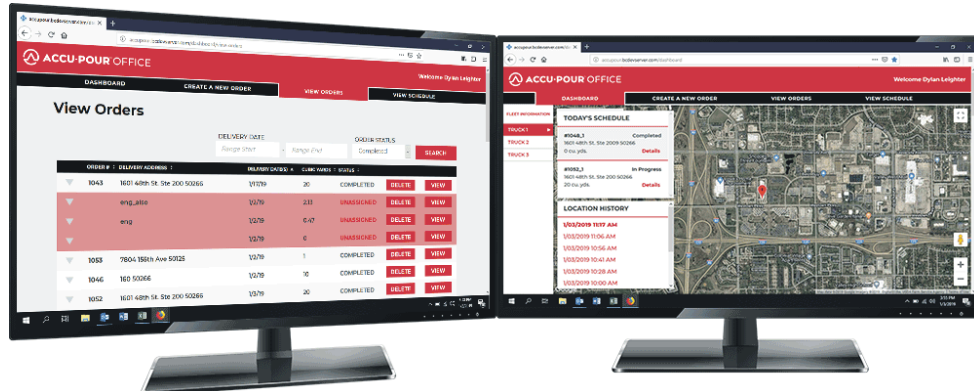
## AP Mobile

Designed for use on a phone, tablet or other mobile device, AP Mobile allows users to wirelessly send and receive production data between AP Office and the mixer as well as view mixing parameters in real-time. Once a pour is complete, final job data syncs automatically with AP Office.

Traditionally, communication with a mobile concrete mixer flowed in one direction – from the unit back to the office, typically in paper form. But now, with both AP Office and AP Mobile working jointly in real-time, information goes to the unit and then directly back to the office. After an order is placed, dispatch enters the job parameters into AP Office. AP Mobile then receives those parameters and wirelessly sends all information to the mixer. The operator completes the pour, while all production data is automatically sent back to AP Office for analysis.

AP Office also simplifies assignments and orders by allowing users to create one order, then divide it into multiple trucks if needed and still track under one job. With smart scheduling, users know where their fleet is at any time, where they're headed next and if adjustments are needed before the next job begins.

"This year, Cemen Tech celebrates its 50th year in business, so the timing couldn't be better for us to announce the latest in the ACCU-POUR tech suite to move our industry



AP Office is the front-end solution for scheduling, dispatch and fleet management functions. Photos courtesy of Cemen Tech

forward in big steps," said Connor Deering, CEO/president of Cemen Tech. "The continued development of our ACCU-POUR suite with the new AP Office and AP Mobile modules shows our commitment and leadership in developing the most innovative and advanced volumetric concrete production solutions for the industry. AP Office is not limited to only Cemen Tech equipment – it can be used by anyone who owns a volumetric mixer."

## Real-time data gathering and reports

Thanks to a nearly endless stream of real-time data, ACCU-POUR acts as a robust business partner day in and day out. This partner presents known and unknown information, allowing you to control and run the business based on current and precise data. But analysis isn't limited to real-time, as all data can be custom exported to many popular accounting programs. ■



Once a pour is complete, final job data syncs automatically with AP Office.

# WE TAKE CARE OF BUSINESS.

Because we own it. That's right. We're Employee Owners. And we understand our business only profits when your business profits. That's why we work harder and smarter. Could it be any simpler? Taking care of business better. Yours and Ours.



making it happen

**Maine Drilling & Blasting**

CT: 860-242-7419 NH: 603-647-0299  
ME: 207-582-2338 NY: 518-632-9170  
MA/RI: 508-478-0273 PA: 717-933-5781 VT: 802-453-5138  
www.mainedrilling.com



Model: P36.13

AMS, 1205 Galleria Blvd., Rock Hill, SC 29730

## Telehandler Solutions. Proven Versatility.

Compact, Heavy Duty, High Capacity, Stabilizers, Roto. Explore the full line of Merlo telehandlers on our website! Contact your local dealer, or give us a call!



ams-merlo.com / 803-327-4949  
info@appliedmach.com  
**Dealer Opportunities Available**





## People in the industry

### Crane Industry Services adds two inspectors/trainers

Crane Industry Services LLC (CIS) of Carrollton, GA, welcomes two staff members who will fill roles as crane inspectors and trainers. Noel Whelchel and Larry Johns bring unique skill sets to assist contractors and utility companies with equipment and personnel evaluations.

With Business and Sports Administration degrees from the University of Georgia and Georgia State University, Whelchel has more than 17 years of leadership experience. His expertise includes strategic planning and program coordination. "Noel is interested in the application of technology tools to safety management. He will take leadership roles in the implementation of iReportSource for online dynamic employee recordkeeping and simulation training and onboarding schools with new craft skills programs," said Debbie Dickinson, CEO of CIS.

Johns has more than 35 years of experience in structural steel and heavy-lift rigging and as a signal person. His certifications include NCCER advanced rigging and ironworker, NCCCO rigger/signal person and crane operator. He is authorized to train OSHA 10- and 30-hour courses. "Larry has years of real-world experience working as a foreman for multiple general and specialty contractors and he is a wealth of knowledge and experience running everything from friction lattice-boom cranes to telescopic mobile cranes," said Dickinson.

"CIS is excited about its significant growth and all that Johns and Whelchel add to the already dynamic CIS team," she said. ■



*Whelchel has more than 17 years of leadership experience including strategic planning and program coordination.*



*Johns' certifications include NCCER advanced rigging and ironworker, NCCCO rigger/signal person and crane operator.*

*Photos courtesy of CIS*

**ROCHESTER CLUTCH & BRAKE CO**  
Since 1927

**585-924-3717**

**NEW, REBUILT & CUSTOM  
INDUSTRIAL  
CLUTCHES & BRAKES  
BANDS & STEERING  
FRICTIONS  
ALL VEHICLES  
DOZER, BACKHOE  
ALL MACHINERY**

**827 Phillips Road, Victor, NY 14564**  
**WWW.ROCHESTERCLUTCH.COM**



#### Aggcorp Equipment Systems

22800 Lakeland Blvd., Euclid OH 44132

**216-732-8992**

info@aggcorp.net,

smcivor@aggcorp.net

www.aggcorp.net



#### Emerald Equipment Systems

7600 Morgan Rd., Liverpool NY 13090

**315-437-1977**

sales@emeraldscreening.com

www.emeraldscreening.com



#### Powerscreen Crushing & Screening LLC

11901 Westport Rd., Louisville KY 40245

**502-320-9300**

justin@powerscreensales.com

www.powerscreensales.com



#### Powerscreen of Florida, Inc

5125 North Frontage Rd., Lakeland FL 33810

**863-687-7153**

sales@powerscreenfla.com

www.powerscreenfla.com



#### Powerscreen Mid-Atlantic Inc

715 Indeneer Dr, Kernersville NC 27284

**(800) PWR-SCRN**

sales@powerscreenmidatl.com

www.powerscreenmidatl.com





# COBRA 290

## IMPACT CRUSHER



The Cobra 290 Impact Crusher is a machine that provides class leading productivity, unmatched versatility and excellent fuel efficiency. The quick set up times, simple intuitive operation and ease of transport makes this machine an ideal solution for all applications.

2

**INDEPENDENT  
HYDRAULIC  
APRONS**



**ENGINE POWER**

Tier 3 – 235kW / 315Hp  
Tier 4 – 235kW / 315Hp

UP TO

290

**TONNES PER  
HOUR**

(320 US tonnes)

For more information please visit: [terex.com/evoquip/cobra290](http://terex.com/evoquip/cobra290)  
or **Tel:** +442887718500 **Email:** [evoquip@terex.com](mailto:evoquip@terex.com)



[terex.com/EvoQuip](http://terex.com/EvoQuip)



# Chew it up –

## Smooth it out

Soil stabilizing made easy for warehouse build site  
by Jeff Winke

Stabilization Services purchased the first of its two Roadtec SX-6e stabilizer-reclaimers about three seasons ago, after research and testing a couple of competitive machines.

Photos courtesy of Stabilization Services

**T**he soil in central Indiana is fertile farmland. As the USDA says in its Soil Survey Manual, prime farmland “has the soil quality, growing season and moisture supply needed to produce economically sustained high yields of crops when treated and managed according to acceptable farming methods, including water management.”

Unfortunately, rich, moist soil for growing corn, wheat and soybeans may not be the best base for constructing buildings. Every building from a tiny home to a large industrial facility requires a stable building pad. Ask Stabilization Services Inc. headquartered in Noblesville, IN – they know.

Located in the greater Indianapolis market, Stabilization Services has been providing soil stabilization, soil drying and full depth reclamation (FDR) to customers in central Indiana since 1993. That was the year sitework contractors and developers Ray Harvey and Tim Peterson saw a market for lime stabilization for treating the fertile agricultural land to create solid pads for building construction. The contracting company has grown and smartly adjusted to the market, economy and needs of their customers. The company has a complete fleet of soil stabilizer-reclaimers, motor graders, compactors, a smooth drum roller, water trucks and material spreader trucks. They recently acquired two new stabilizer-reclaimer machines to keep the company’s capabilities current.

“We are well established in the market as the go-to source for soil conditioning work and site prep,” stated Greg Brummet, project manager with Stabilization Services. “We complete more than 100 jobs per year and much of our work is similar in scope.” A recently completed project was a building pad and parking lot for the Peterson Company, an Indianapolis-based commercial construction and property maintenance firm.

The MC-1 Speculative Warehouse project is located on a 30-acre site in the unincorporated community of Mount Comfort, IN (thus the MC acronym). The site has easy access to I-70, which is a major reason for the Peterson Company’s location.

The warehouse building pad is 368,000 square feet and the surrounding parking lot is 400,000 square feet. Stabilization Services completed its work on the building slab in three days and will work on the parking lot in the spring of 2019.

“When we arrived on the site the earthworks company was placing the final two lifts on the pad in mid-December trying to complete the pad before winter,” Brummet said. “We were able to immediately follow with one of our Roadtec SX-6e stabilizer-reclaimers. The SX-6e has the power and ground speed to get the job done quickly with just the one machine.”

Using the SX-6e, Stabilization Services added approximately 1,200 tons of lime kiln dust to the building pad.

“We needed to dry out the site by chewing up the soil and adding the lime, which binds with the clay in the soil,” said Brummet. “The goal was to create a stable building pad before winter weather hit, so that vertical construction could begin.”

In terms of volumes of soil conditioned, the building pad had 15,800 cubic yards, and the contractor anticipates the parking lot will have 17,200 cubic yards that will require 1,400 tons of lime kiln dust for its conditioning. A GPS rover was used for layout purposes to ensure uniform material placement.

Stabilization Services purchased the first of its two Roadtec SX-6e stabilizer-reclaimers about two seasons ago, after research and testing a couple of competitive machines.

“Our operators liked the way the Roadtec performed best,” Brummet stated. “There are also visibility and ease of operation advantages, like seats that swing way out beyond the machine, side view mirrors, large windows and even a backup camera system like you have in new cars.”

The mid-size SX-6e weighs 83,480 lbs. (37,865 kg) and features a 6-cylinder 675 hp (503 kW) diesel engine that provides power to the rotor through a direct drum drive. The machine is capable of cutting up to 20 inches (508mm) deep and 100 inches (2,540mm) wide. Brummet said they also like the heavy-duty construction, which they feel is necessary for the rigorous production schedule they maintain during the season.

The SX-6e is manufactured at the Roadtec factory in Chattanooga, TN. The machine frame is constructed from A656 grade 80 steel, which is said to have twice the yield strength as the milled steel used in other machines on the market. The custom-made frame is designed to perform in all terrains by providing substantial ground clearance. The wheels are suspended by four independently controlled, hydraulically adjustable leg assemblies that are bolted to the mainframe. This feature allows the depth of cut to be selected via push button. The cutter housing is also securely fastened to the mainframe, providing functionality while the machine is working.

For the MC-1 Speculative Warehouse project, Stabilization Services was able to complete the building pad within the given timetable and to the project specifications. The testimony of success was in the final proof roll, which was witnessed by the owner, the Peterson Company, and a municipality inspector.

What will be remembered about this project? “Probably nothing...which is good,” Brummet concluded. “Projects like the MC-1 Speculative Warehouse that we can successfully complete without a hitch are the ones we like since they allow us to quickly move on to the next project knowing that our quality work can be left behind.”

Jeff Winke is a business and construction writer based in Milwaukee, WI. He can be reached at [jeff\\_winke@yahoo.com](mailto:jeff_winke@yahoo.com). ■



The machine is capable of cutting up to 20 inches (508mm) deep and 100 inches (2,540mm) wide.



# TIME TO **SWITCH!** TO **JCB**

## **SAFETY**

Never Climb Over an Attachment

## **COMFORT**

Up to 46% Larger Cab

## **VISIBILITY**

Industry's Best With 270°

## **SERVICE**

T4F Engine | No Aftertreatment

## **EFFICIENCY**

10% Fuel Saving Versus T3



60 Pelham Davis Circle  
Greenville, SC 29615  
864-242-5567

1230 N. US Hwy. 1 Suite #10  
Ormond Beach, FL 32174  
864-242-5567 Ext. 1450

[sales@continentalengines.com](mailto:sales@continentalengines.com)  
[continentalengines.com](http://continentalengines.com)



## Attention Landscapers:



**M**ark your calendars to attend the Hard Hat Expo on April 3 & 4 at the NYS Fairgrounds. You'll find compact construction equipment, trailers, lawn care equipment, chainsaws, stone cutting saws, attachments, and more to increase your productivity!

These are just a few of the brands that will be represented at the expo. Be sure to visit them to learn how they can assist you.



Hear What's Important With

**Sonetics**



SEE US IN BOOTH 74



**RC MOWERS**  
REMOTE CONTROL OPERATED SLOPE MOWERS



**JCSmith** Certified WBE Since 1976  
SALES - SERVICE - RENTAL





# Terex supports NCCCO certification for drill rig operators

WATERTOWN, SD – Terex Utilities recently announced Dale Putman, product manager, was part of the first group of individuals to become a certified foundation drill rig operator. The designation is one of two new certifications developed by the National Commission for the Certification of Crane Operators (NCCCO) in conjunction with the International Association of Foundation Drilling (ADSC). Following receipt of foundation drill rig certification, Putman also became accredited as an NCCCO Practical Examiner for the foundation drill rig program.

“Being knowledgeable about our customers’ business extends beyond just knowing how and where Terex equipment is used,” said Putman. “We think it’s important to be a driving force to promote safe work environments for operators in the drilling industry. By getting certified myself, I can set an example when I operate Terex auger drills in the field with customers,” he said. Putman is also an NCCCO-certified Digger Derrick Operator.

Although OSHA does not currently require operators of drill rigs to be certified, employers must ensure operators are trained and qualified. Until now no independent mechanism has existed for operators to demonstrate knowledge, skills and abilities for operation of this equipment. “The unique challenges and operational practices required by drill rig equipment necessitated new certification exams different from any other NCCCO program,” said NCCCO Director of Operations Joel Oliva.

The ADSC pro-actively sought the development of a certification because of increasing requests from project owners or general contractors for such credentials, explained Richard Marshall, CHST, ADSC’s director of safety. Development of the certification began in 2017. Putman and Jason Julius, Technical support and training development for Terex Utilities, were members of the certification task force. “Terex Utilities generously donated their experience and time, but also excerpts from various operator’s manuals for use in the development of reference manuals and candidate study guides,” said Marshall.

To achieve NCCCO certification for foundation drill rig and/or anchor/micropile drill rig, candidates must successfully complete written and practical exams, including demonstration of inspection, use of safety protocols, identification of controls and the ability to pick and lay down pipe, position tools, drill and safely secure the equipment in shutdown.

In order to become a practical examiner, one must pass the written core and specialty exams as well as the practical exam. Then the examiner candidate must attend an



Dale Putman (L) shares his industry knowledge with Terex customers during the company's annual Hands-On Training event held every August.

Photos courtesy of Terex Utilities



Industry news



As an NCCCO Practical Examiner candidate, Putnam acted as proctor, examiner and certified operator candidate.

NCCCO Practical Examiner Workshop to learn policy and procedures. “Dale was one of the first individuals to become an NCCCO Certified Practical Examiner for foundation drill rigs – something that Terex Utilities should be proud of. Dale’s participation helped provide the industry with quality assessments that are specifically focused on the work that foundation drill rig operators perform on a daily basis. These assessments will ensure that operators are proficient and knowledgeable and thereby reduce risk and improve safety in the drilled foundation industry,” said Marshall.

Candidates and test sites interested in preparing for the NCCCO drill rig operator certification exams can find additional information at [nccco.org/DRO](http://nccco.org/DRO) or email [info@nccco.org](mailto:info@nccco.org).



P.O. Box 539, 8085 State Hwy 12, Sherburne, NY 13460

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

WBE / DBE Certified



800-238-7833 or 607-674-6363 - Fax: 607-674-9706

Your Source for Steel, Stainless, Aluminum & More

<b>Structural Shapes &amp; Bars</b> 	<b>Sheet &amp; Plate Products</b> 	<b>Concrete Reinforcing Products</b> 	<b>Drainage Products</b> 
<b>Piles Decks &amp; Grates</b> 	<b>Additional Building Materials</b> 	<b>Tube &amp; Piping</b> 	<b>Snow Plow &amp; Heavy Equipment Wear Parts</b> 
<b>Custom Fabrication</b>			
<b>Vacuum Truck Parts</b> 	<b>Bucket Liners /Rebuilds</b> 	<b>Crusher Plates</b> 	<b>Liner Plates</b> 
<b>Grizzly Grates</b> 	<b>Asphalt Silo</b> 	<b>HARDOX® WEARPARTS</b> Your local certified Hardox expert for efficient wear parts solutions	



FOR MORE PROJECT LEADS...  
BECOME A MEMBER TODAY!

MEMBERS OFFERED FREE  
SAFETY TRAINING CLASSES.



Contact Lisa Peregoy  
[lisa@syabex.com](mailto:lisa@syabex.com)  
[syabex.com](http://syabex.com)  
(315) 437-9936





Travis Vance

## On the front lines with Fisher Phillips:

by Travis Vance and Pamela Williams



Pamela Williams

### Driving safety in the workplace: Where the rubber meets the road

Motor vehicle crashes are the leading cause of work-related deaths in the United States. Besides the tragedy of lost life, crashes cost employers \$60 billion every year in medical care, legal expenses, property damage and lost productivity.

According to the U.S. Department of Transportation's National Highway Traffic Safety Administration, 37,461 people died on U.S. roadways in 2016. Distracted driving played a role in 3,450 of those deaths. Considering that millions of employees operate or ride in vehicles as part of their jobs, it's not surprising that OSHA targets and fines employers who permit or encourage distracted driving.

Distracted driving – anything that takes a driver's attention from the road or hands off the wheel – is a recognized hazard under the General Duty Clause of the OSH Act. As of January 2019, penalties for willful violations of this clause can range up to \$132,598 per occurrence.

Take note that the Federal Motor Carrier Safety Administration may preempt OSHA and the OSH Act with respect to commercial carriers. Employers should consult OSHA and FMSCA guidance on these agencies' respective responsibilities for transportation safety. Where the OSH Act is not preempted by another federal agency, however, OSHA generally claims jurisdiction over safety and health. Examples may include vehicles engaged exclusively in intrastate travel or those that do not meet the definition of a commercial carrier.

#### Distracted driving: Know the risks

The National Safety Council estimates that nearly one-quarter of all motor vehicle crashes involve distracted driving. Any number of activities can distract motorists when they're behind the wheel. The NHTSA lists use of a mobile phone, texting, watching a video, eating or drinking, changing the radio station, grooming, looking at a map or GPS or talking to a passenger as common distractions while driving. Perhaps the most distracting activity was texting while driving. Technology has exacerbated the problem of distracted driving. Hand-held and hands-free cellular devices have simultaneously put the world at our fingertips and heightened the compulsion to multitask.

As of November 2018, 47 states and Washington, D.C., had banned texting while driving. That doesn't stop people from doing it, however. According to OSHA, reaction time for drivers talking on a mobile phone is the same as that of a drunk driver. Perhaps more surprising was that a 2013 University of Utah study concluded the hands-free use of cellular technology was no less distracting than hand-held use. Specifically, researchers found voice-to-text was potentially more distracting than physically texting while driving.

#### Implement distracted driving policies

Employers that require their employees both to use mobile technology and to drive on company time (whether in a company vehicle or the employee's own vehicle) should make sure they have competent distracted driving policies in place. Even employers that do not formally require texting or mobile phone usage may run afoul of the OSH Act if they organize work so that texting or participating in phone calls is necessary or if they provide incentives that could foreseeably result in employees texting or using hand-held devices while driving.

Effective distracted driving policies should, at a minimum:

- Prohibit impaired driving or being under the influence of alcohol and/or drugs
- Require employees to use seatbelts while driving
- Prohibit texting or email while driving
- Prohibit the use of hand-held devices while driving and
- Prohibit eating and drinking while driving.

In crafting such policies, employers should be aware of all state and local laws and regulations.

#### Enforce distracted driving policies

Written policies are only as good as the training employees have received on the policies and as the employer's enforcement of its policies. Educate all employees on your company's distracted driving policies and be sure they understand the consequences if they fail to follow those policies. Have employees sign a written acknowledgment that they received and were

trained on the distracted driving policy. Requiring periodic refresher training can assist with enforcement and compliance.

Employees who fail to follow your policies should be disciplined. Because employees may often drive alone and unsupervised, it may be difficult to discover a violation of your company's distracted driving policy. You may want to consider implementing controls on company-issued mobile devices to prevent employees from texting or calling while a vehicle is in motion. Some employers have installed cameras or monitoring systems in vehicles to discourage distracted driving.

In our 24/7, digitally connected world, employers must proactively implement and en-

force policies to keep workers safe while they are driving on company time. Failing to do so can result in litigation costs, OSHA fines, medical expenses and lost productivity. Employers should consult knowledgeable legal counsel to help them develop and implement distracted driving policies that follow best practices and protect their employees and business in the best manner possible.

Travis Vance is a partner in the firm's Charlotte office. He can be reached at [tvance@fisherphillips.com](mailto:tvance@fisherphillips.com) or 704.778.4164. Pamela Williams is a partner in the firm's Houston office. She can be reached at [pwilliams@fisherphillips.com](mailto:pwilliams@fisherphillips.com) or 713.292.5622. Visit their website at [fisherphillips.com](http://fisherphillips.com).



VF-Venieri earth moving machines bring more than expected. More safety, more power, and more versatility. In every machine!



1205 Galleria Blvd., Rock Hill, SC 29730

**Powerful. Innovative. Versatile.**



Model: VF18.63B

[ams-venieri.com](http://ams-venieri.com)  
[info@appliedmach.com](mailto:info@appliedmach.com) / 803-327-4949  
**Dealer Opportunities Available**



New York's **Leading**  
**Construction Industry Association**  
[www.agcnys.org](http://www.agcnys.org)

**Join Us!**

**Call Today! (518) 456-1134**

- More than 600 Construction Industry Companies are members of AGC NYS, LLC
- Services and programs to navigate the legal, regulatory and political environment.
- Networking with leading construction industry professionals.



When you become a member of AGC NYS, you'll also become a member of AGC America - our national organization who represents more than 32,000 leading firms in the industry.

**The Associated General Contractors of New York State**  
 10 Airline Drive, Suite 203  
 Albany, NY 12205



# Lift & Move career exploration events set for 2019



**Industry  
news**

Lift & Move USA, a career exploration and outreach event promoting crane, rigging and transportation operations, announces dates and locations for four events in 2019. In May, the program will be hosted by companies in New York and Ontario, Canada, and in autumn two events will be held in Texas.

The hands-on career events are geared for students ages 15 and up and support local schools providing career and technical education programs. Lift & Move USA is organized by SC&RA, SC&R Foundation, NCCCO and KHL Group.

"We will bring this authentic career exploration event to some new regions and return to areas with particularly high labor demand," said Tracy Bennett, director of Lift & Move USA. "For the first time since the event launched, we will visit north central New York and Ontario, Canada – near the southern and northern shores of Lake Ontario. In addition, we return to Texas with one event in Houston



*Students are exposed to all aspects of the industry, including hauling and transportation. Many students, who are enrolled in diesel mechanics courses, find what's under the hood to be interesting.*

## KUT-MOR FLAIL MOWERS

REAR • WING • BOOM AXE



**Phone: 866-4FLAILS (435-2457)**  
**Fax: 866-352-4528**

**Email: [sales@montageent.com](mailto:sales@montageent.com)**  
**Website: [www.montageent.com](http://www.montageent.com)**

**HARD HAT  
EXPO**

and one in Longview," she said.

• May 9 in Webster, NY, is hosted by Boulter Industrial Contractors and will feature equipment from Clark Rigging & Rental and Silk Road Specialized Transport. In addition to learning about technical skills specific to industrial contracting, Boulter Industrial Contractors will give students the opportunity to experience practical interviewing skills.

"In the age of social media, many young adults lack interpersonal skills and confidence when interviewing. As part of the programming for our Lift & Move USA event, we're excited to partner with local businesses to provide mock interview exercises as an authentic learning experience. Students will have the opportunity to speed interview with an HR or staffing professional and will leave with constructive feedback on best practices," said Brittany Bachman, marketing manager.

• May 30 in Vaughan, Ontario, Canada, is hosted by Matcom and will



## Lift from 13

feature equipment from Anderson Haulage and Ontario-based crane rental firms.

"Popular shows like 'How It's Made' represent only a small part of the industrial sector. It's time to show the next generation of workers how the industrial machines they were watching were installed in factories. With the help of Lift & Move, Matcom and its partners will deliver a peek inside the world of rigging, heavy hauling and cranes. Students will learn that this industry is the backbone of the industrial sector and how these services impact their daily lives," said Matt Rix, president of Matcom.

Two other events are planned for Fall 2019:

- Oct. 16 in Longview, Texas, will be hosted by BOSS Crane & Rigging and Bennett International Group.
- Nov. 7 in Houston, Texas, will be hosted by Liebherr.

### Piquing Interest

Nearly three-fourths of students responding to recent post-event surveys are at least moderately likely to consider careers related to this industry after attending an event. Meanwhile, all teacher respondents say they will recommend careers in transportation, crane and rigging to future students.

Key to the success of the program is that students see live equipment demonstrations and hear personal stories from company employees about their own career trajectories as the students rotate through multiple learning stations. Some of the most popular learning stations include simulators, such as the Vortex crane simulator provided by CM Labs, a chain falls "Minute to Win It"-style competition and the chance to climb into the cabs of trucks and cranes.

"There is real interest by teachers to help young people understand the career path into our industry. Teachers were pleased that the message they work so tirelessly to promote was validated through the interactive stations and real-life skills demonstrated by our employees," said Brian Schleicher, director of marketing & communications for Superior Cranes Inc., which hosted an event last November in Rockingham, NC.

Get more information about upcoming events at [www.liftandmoveusa.com/events](http://www.liftandmoveusa.com/events).

[Video Recap](#) of NessCampbell Crane + Rigging October 2018 event.

[Video Recap](#) of Superior Cranes November 2018 event. ■



Events conclude with a live equipment demonstration.



One popular station allows students to compete in lifting a weight using chain falls. Photos courtesy of Lift & Move USA



**Stocking Equipment Dealer**  
Yemassee, SC 29902  
**843-525-6140**  
**sales@sandscience.com**  
**www.sandscience.com**



61 Silva Lane, Dracut, MA 01826  
**978-454-3320**  
**gilda@equipmenteast.com**  
**www.equipmenteast.com**

1474 Route 3A, Bow, NH 03304  
**603-410-5540**



1772 Corn Rd., Smyrna, GA 30080  
**770-433-2670**  
**sales@grindercrusherscreen.com**  
**grindercrusherscreen.com**



2351 Woodcrest Drive, Winter Park, FL 32792  
**407-468-6437**  
**diversifiedecological@gmail.com**  
**diversifiedecological.com**

**Ed's Equipment, Inc.**  
4567 East 71st, Cleveland, OH 44105  
**330-620-9993**  
**ed@edsequipmentinc.com**

**Keestrack USA Parts**  
Phone: +1 940-482-4004  
Mob: +1 940-600-2034  
Fax: +1 940-482-3005

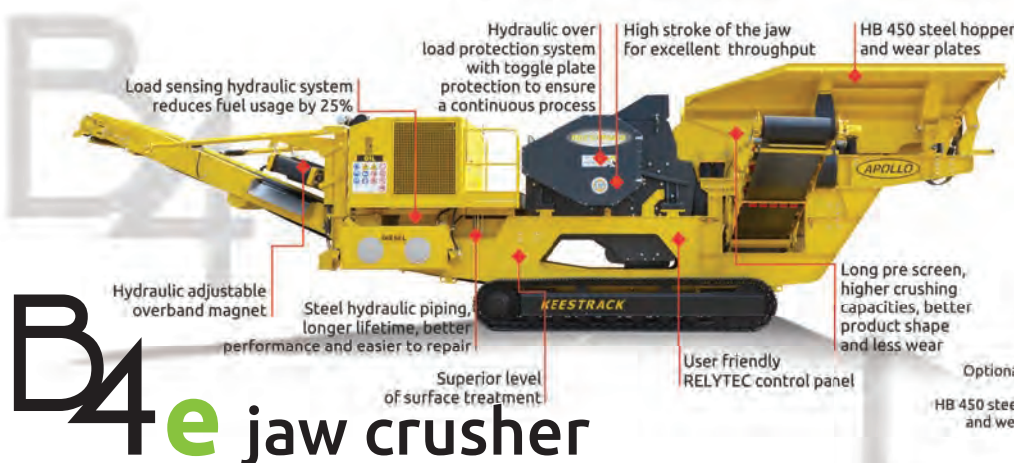


# Performance in every detail



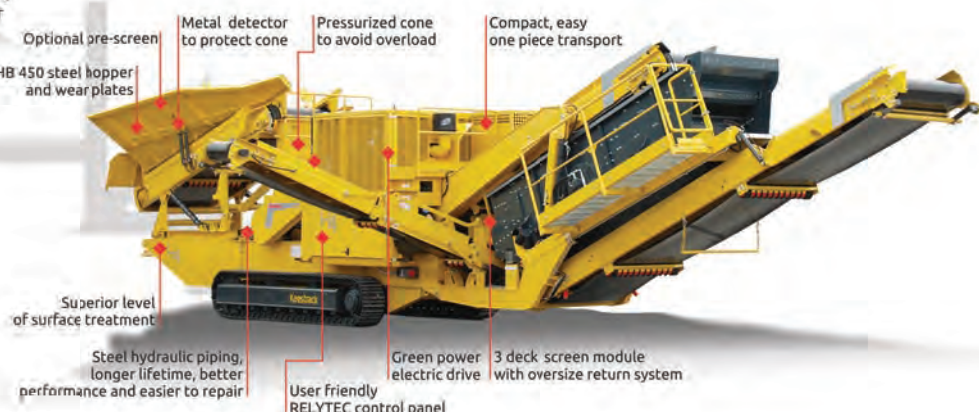
Mobile crushing & screening  
24/7 Remote monitoring  
Fuel efficient & hybrid systems  
Minimum cost of ownership

Contact your nearest Keestrack dealer for more details



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

**H4e cone crusher**





# Diamond Mowers introduces skid-steer drum mulcher

SIOUX FALLS, SD – Diamond Mowers LLC recently introduced the addition of a 72-inch skid-steer drum mulcher.

A new addition to Diamond’s attachment product line, the skid-steer drum mulcher is design for heavy mulching and brush clearing applications. It uses a two-speed variable displacement piston motor, 41 hardened steel teeth and has a total attachment depth comparable to a loader bucket for easy operation and better visibility.

“We’ve been working on building a better drum mulcher for more than two years. We listened to customer feedback to really understand the current challenges before designing Diamond’s drum. We were able to integrate a number of features that will benefit the operator while also increasing the attachment’s productivity,” said Dave Ver Steeg, director of engineering.



It uses a two-speed variable displacement piston motor, 41 hardened steel teeth and has a total attachment depth comparable to a loader bucket for easy operation and better visibility.

In April 2018, Diamond acquired the rights to utilize patents held by Denis Cimaf Inc. for a depth control ring and a replaceable liner. The depth control ring allows the operator to better control depth of cut, and the replaceable liner increases the shell lifespan.

“Our customers have been asking for a drum mulcher from Diamond since we entered the brush cutting and mulching market, but we wanted to get it right,” said Tim Kubista, vice president of sales and marketing. “We have a reputation of building the most productive and durable products in the market, and our first priority is to stay true to that character.”

Diamond Mowers’ skid-steer drum mulcher will be distributed through a contracted dealer network, comprised of more than 350 locations throughout the United States, Canada, Brazil and Australia. ■



Diamond Mowers LLC introduces the addition of a 72-inch skid-steer drum mulcher. Photos courtesy of Diamond Mowers LLC



**Hill-Martin Corporation**  
Hill Martin Corporation  
hillmartin.com  
Northfield VT (802) 476-1000



**WESTCHESTER**  
TRACTOR, INC.  
Westchester Tractor, Inc.  
www.wtractor.com  
Brewster, NY (888) 711-4255



**Tracey**  
ROAD EQUIPMENT, INC.  
EST. 1976  
Tracey Road Equipment  
SYRACUSE • BINGHAMTON  
ROCHESTER • WATERTOWN  
(800) 872-2390  
www.traceyroad.com

## HITACHI

Reliable solutions

# YOU DRIVE TO WORK ON A ROAD YOU BUILT.

We’re in the word-keeping business. For us, every move counts. Our machines are taking production to a whole new level. Because we know that what’s important to you isn’t just a job. It’s upholding the standard by which you measure every job.

**A FULL LINE OF WHEEL LOADERS**

- 13 Models
- 30 HP–531 HP

**REPUTATIONS ARE BUILT ON IT**

Hitachi Construction Machinery  
Loaders America Inc. | HitachiCM.us





# DOOSAN



## DOOSAN. POWERFUL SOLUTIONS.

At Doosan, we do more than engineer products. We engineer solutions. Robust compressors that weather the harshest conditions. Generators and light towers that match innovation with efficiency. Unrivalled service and support, day or night. That's the way we've operated for over 100 years, and the way we'll do business for decades to come.

**AIR COMPRESSORS / GENERATORS / LIGHT TOWERS**

### Liftech Equipment Companies

6847 Ellicott Drive, East Syracuse, NY 13057

**877-Liftech**

**sales@liftech.com**

**www.liftech.com**

### Rochester, NY

241 Paul Road, Rochester, NY 14624

**Phone: 585-328-6380**

**Fax: 585-328-3622**

**Toll Free: 800-339-9651**

### Buffalo, NY

4381 Walden Avenue, Lancaster, NY 14086

**Phone: 716-684-9040**

**Fax: 716-684-9044**

**Toll Free: 800-284-9580**

### Jamestown, NY

1225 East 2nd Street, Jamestown, NY 14701

**Phone: 716-488-1759**

### Schenectady, NY

2820 Curry Road, Schenectady, NY 12301

**Phone: 518-356-5932**

**Fax: 518-356-5892**

**Toll Free: 800-874-3472**

### Binghamton NY

535 Vestal Pkwy W, Vestal, NY 13850

**Phone: 607-775-2744**

**Fax: 607-644-9349**

**Toll Free: 877-543-8324**

### Burlington, VT

33B Commerce Avenue

S. Burlington, VT 05403

**Phone: 802-864-0308**

**Fax: 802-864-1826**

**Toll Free: 800-874-3472**



## Doosan Portable Power releases updated P185 air compressor with Doosan airend, longer runtime

STATESVILLE, NC – Doosan Portable Power has released a newly updated Doosan P185WDO portable air compressor featuring increased runtime and a proprietary Doosan airend as well as a Doosan engine. Doosan is the only air compressor manufacturer to use both proprietary engines and airends in its products.

“By manufacturing both its own engines and airends, Doosan can make sure its air compressors meet high and consistent standards,” said Jeremy Bailey, Doosan Portable Power air products manager. “Customers can trust that the two major components of a Doosan air compressor are of Doosan quality.”

The P185 is equipped with a Tier 4 Final Doosan D24 engine and a Doosan DSN100 airend. Together, they deliver 185 cfm of air at a rated operating pressure of 100 psi. The unit runs 12 hours at 100 percent load, which is two hours longer than the previous P185 generation model, and two hours longer than its closest competitor. The P185 achieves longer runtime because of its industry-leading 34.5-gallon fuel tank.

The high-performance Doosan engine provides the P185 with reliable power and improved cold starting capability in temperatures as low as -10° F, which is 20° colder than its closest competitor.

Bringing both the engines and airends in-house in the new P185 has also simplified machine maintenance. The P185 has new, convenient curbside discharge valves and safer clean-out ports, with best-in-class cooler access. All filters are readily accessible and clearly marked, and the separated oil tank has a new fill and sight gauge. Diagnostic connections are also easier to reach while an LED backlit control display allows gauges to be read in almost any working condition.

For storage, the P185 has the longest, deepest toolbox in the industry. The compact footprint provides easy towing and maneuverability while the galvanneal-steel enclosure withstands harsh jobsite conditions and resists rust and corrosion.

The performance of the P185 is bolstered by multiple warranties, including a one-



*Doosan is the only air compressor manufacturer to use both proprietary engines and airends in its products.*

*Photo courtesy of Doosan Portable Power*

year/2,000-hour bumper-to-bumper warranty; a two-year/4,000-hour airend warranty; and a five-year, 10,000-hour Doosan extended warranty contingent on the use of genuine Doosan fluids and filters and service at prescribed intervals.

For more information about Doosan Portable Power, visit [doosanportablepower.com](http://doosanportablepower.com). ■

## CAT® 330 and 330 GC Next Generation excavators deliver increased efficiency and lower operating costs

The Next Generation 30-ton size class excavators from Caterpillar – the 330 and 330 GC – increase operating efficiency, lower fuel and maintenance costs and improve operator comfort compared to previous models. The new excavators offer unique combinations of features designed to match contractors’ productivity and cost targets.

Delivering high-production performance, the new Cat® 330 features standard integrated Cat Connect technology and the most power and lift capacity of the two models. The result is maximum productivity at the lowest cost.

The new Cat 330 GC combines the right balance of productivity features with reduced fuel consumption and maintenance costs. The result is high reliability and low-cost-per-hour performance.

### Technology boosts efficiency by up to 45 percent

The new Cat 330 has the industry’s highest level of standard factory-equipped technology to boost productivity. Integrated Cat Connect Technology increases operating efficiency by up to 45 percent over traditional grading operations.

The standard Cat GRADE with 2D system provides guidance for depth, slope and horizontal distance to grade through the standard touchscreen monitor, making operators more accurate. The system is readily upgradable to Cat GRADE with Advanced 2D or Cat GRADE with 3D. Standard Grade Assist automates boom, stick and bucket movements so operators can effortlessly stay on grade with single-lever digging.



*The system is readily upgradable to Cat GRADE with Advanced 2D or Cat GRADE with 3D.*

*Photos courtesy of CAT®*



## CAT® from 18

Cat Payload delivers precise load targets and increased loading efficiency. With on-the-go weighing and real-time payload estimates, Payload helps prevent truck over/unloading. The new Lift Assist feature helps the operator safely pick up heavy objects without tipping. Visual and auditory alerts indicate whether the load is within the excavator's working limits.

E-fence prevents the excavator from moving outside operator-defined set points. The system is particularly useful when working beneath structures or near traffic.

Cat LINK™ hardware and software connect jobsites to the office and provide managers with machine-critical operating information.

#### Fuel efficiency improved up to 20 percent

By design, Cat Next Generation excavators consume less fuel per unit of work than the models they are replacing – up to 20 percent for the 330 compared to the 330F and as much as 15 percent for the 330 compared to the 330D2.

New Smart mode operation automatically matches engine and hydraulic power to digging conditions, optimizing both fuel consumption and performance. To further reduce fuel usage, engine speed is automatically lowered when there is no hydraulic demand. The excavators feature a new main control valve that eliminates the need for pilot lines, reduces pressure losses and lowers fuel consumption.

The new cooling system employs auto-reversing electric fans, which independently monitor hydraulic oil, radiator and air-to-air aftercooler temperatures to deliver the exact airflow required.

The Cat 330 has a larger, 6,700-kg (14,770-lb) counterweight, which enables the excavator to lift nearly 10 percent more than the 330F and up to 15 percent more than the 330D2. With increased swing pressure, a larger swing drive and a larger swing bearing, the Cat 330 delivers 5 percent more swing torque over the previous series, making backfilling and lifting on slopes easier.

#### Maintenance costs reduced as much as 20 percent



*The new Lift Assist feature helps the operator safely pick up heavy objects without tipping.*

Offering extended and more synchronized maintenance intervals, the new Cat excavators reduce maintenance costs by up to 20 percent over the previous series.

The new Cat air filter with integrated pre-cleaner and primary and secondary filters has double the dust holding capacity of the previous design. The new Cat hydraulic return

filter has a 3,000-hour service life – a 50 percent increase over the previous filter.

Fuel system filters are synchronized for service at 1,000 hours – a 100 percent increase over the previous filters. The fuel system water and sediment drains and hydraulic system oil level are positioned close together at ground level, making routine maintenance faster and safer.

#### New cab enhances operation

With a choice of Comfort or Deluxe cab packages, or a Premium package in some regions, all Next Generation Cat excavator cabs come equipped with standard features like keyless push-button start, large touchscreen monitor with jog dial keys for control and sound-suppressed roll-over protective structures to offer the next level of operator comfort and safety.

A tilt-up console for the Deluxe and Premium cab designs affords easy cab entry and exit. New advanced viscous mounts reduce cab vibration by up to 50 percent over previous models. Large front, rear and side windows enhance visibility; optional 360-degree visibility (330 only) combines images from multiple machine-mounted cameras to enhance the operator's view in all directions. Programmable joystick buttons for response and pattern allow the operator to "dial in" productivity settings. ■



*Cat Payload delivers precise load targets and increased loading efficiency.*



ADVERTISE IN

# RockRoadRecycle.com



YOUR DYNAMIC NEWS RESOURCE FOR THE AGGREGATE,  
HEAVY CONSTRUCTION AND RECYCLING INDUSTRIES.

Log in to [rockroadrecycle.com](http://rockroadrecycle.com) for  
a **FREE** subscription.



## MAY - Editorial Focus

Bridge & Highway construction  
Deadline 4/18/19

## JUNE - Editorial Focus

Paving/Compaction  
Deadline 5/16/19

## JULY - Editorial Focus

Construction Demolition/Attachments  
Deadline 6/20/19

ADVERTISE YOUR  
EQUIPMENT & SERVICES

INSERT YOUR BROCHURE  
IN OUR DIGITAL PUBLICATION

POST YOUR VIDEOS

PROMOTE YOUR AUCTION

1-800-218-5586  
[info@rockroadrecycle.com](mailto:info@rockroadrecycle.com)



# ADVANCED TECHNOLOGY OF A WORLD LEADER

**Takeuchi**  
From World First to World Leader

**INNOVATION**  
RELIABILITY  
**POWER**  
DURABILITY  
**EST. 1963**  
**PERFORMANCE**  
**QUALITY**



Innovation and quality is what Takeuchi is known for. Our family of great machines have been a part of the construction industry for over 50 years. When *PERFORMANCE*, *RELIABILITY* and *PROFIT* matter, you deserve a world leader on your team. Takeuchi offers a wide range of excavators, track loaders, wheel loaders and skid steer Loaders to help you get your job done.

Takeuchi Fleet Management is available on most models. See your dealer for details.



< For more information on this model or any other great Takeuchi machine, visit [takeuchi-us.com](http://takeuchi-us.com) >



**Denver - Headquarters**  
5000 Vasquez Blvd., CO 80216  
**303-355-5900**  
[info@powermotivecorp.com](mailto:info@powermotivecorp.com)  
[www.powermotivecorp.com](http://www.powermotivecorp.com)

**Durango**  
39 Kay Cee Lane, Durango, CO 81301  
**970-259-0455**

**Colorado Springs**  
2259 Commerical Boulevard,  
Colorado Springs, CO 80906  
**719-576-5541**

**Grand Junction**  
2340 I-70 Frontage Road,  
Grand Junction, CO 81505

**970-241-1550**  
**Cheyenne**  
7854 Hutchins Drive,  
Cheyenne, WY 82007  
**307-634-5149**

**Milliken**  
2600 Center Drive,  
Milliken, CO 80543  
**970-587-1188**



# Morbark introduces Rayco T415 forestry mulcher and Hydra Stumper

WOOSTER, OHIO – Morbark LLC is pleased to announce the debut of the powerful and versatile Rayco T415 forestry machine. Perfect for land-clearing companies, construction companies, pipeline contractors, electric utility contractors and real estate developers, the T415 allows customers to change between a Predator forestry mower/mulcher head and a Hydra Stumper stump cutter attachment for optimal versatility.

“The T415 forestry machine is designed for large-scale land-clearing contractors,” said J.R. Bowling, Rayco Manufacturing mulcher specialist. “It’s a lot of cutting power in a very nimble package.”

Powered by a 415-HP CAT C9.3B Diesel Tier 4 Final engine, the T415 boasts a closed-loop hydrostatic system to power the mulcher or cutter head, sending 140 gallons/minute to the attachment’s drive motor(s). The hydraulic output is power-optimized to match the engine’s power curve, keeping the mulcher/stumper RPM constant even under load for a finer mulched product with fewer passes. As the engine RPM pulls down under load, pump displacement increases to maintain the 140 GPM flow. The operator feels more power at the cutter head over a broader engine RPM band.

For mowing/mulching applications, the Predator mulcher head has a 91.25-inch cutting width and is powered by a pair of variable displacement drive motors. The Predator mulcher head is equipped with 49 single-bolt teeth, including end teeth with extra carbide to power through anything in its way. The mulching head also has a synchronous drive belt for low maintenance and long wear life and slotted mounting lugs to follow terrain with minimal machine stress. A manually adjustable tree catcher and hydraulic debris flap is standard equipment.

The Hydra Stumper head muscles through stumps with



For mowing/mulching applications, the Predator mulcher head has a 91.25-inch cutting width.

its 48-inch diameter x 3-inch thick cutter wheel equipped with 56 Monster Tooth™ cutter tools. The cutting range is 9 feet wide, 8 feet 10 inches high and 46 inches deep.

Rayco plans to add the DENIS CIMAF mulching head as an option for the T415 in the near future. (Morbark acquired DENIS CIMAF Inc. in December 2018.)

“The T415 packs a great deal of power and versatility to efficiently clear vegetation,” said Bowling. “Our customers are going to be impressed by how efficiently this machine mulches even tough plant species in a one-pass mowing situation.”

Rayco’s patented elevated cooling design places engine radiators in both the rear of the engine compartment and in the limbriser for maximum cooling in even the harshest environments, including areas with high ambient temperatures and a considerable amount of airborne debris. Debris screens trap airborne chaff before it can plug radiator fins. These screens are easily removable without tools for cleaning. Reversing fans also clear debris screens on-command, extending service intervals. The fans run at variable speed based on temperature and reverse based on a timer or by manual control from the operator’s cab. An on-board air compressor further aids in cleaning debris screens.

Other key features include Rayco’s exclusive track tensioning system with monitor, which alerts the operator to over-tension situations and provides easier access to track tension grease fittings; hydraulic tilt cab to access pumps and other components easily; and the heavy-duty 35,000-lb (15,875-kg) hydraulic rear winch.

A number of safety features are designed into the T415, including high-output LED lights on all four sides of the machine, emergency e-stop button and an escape hatch in the roof of the cab. The ROPS/FOPS/OPS-certified cab also includes several comfort and ergonomic features and a rear-view camera.

The introduction of the T415 comes on the heels of the debut of the C120R Forestry Mulcher in November 2018. Rayco plans to unveil two new mulcher models later this year.

“Having a powerful forestry machine built to maximize mulching capabilities is a great benefit to our large-scale land-clearing and vegetation control customers,” Bowling said. “And the added versatility to accept both stumper and mulcher heads makes the T415 a great value as well.” ■



The T415 is perfect for land-clearing companies, construction companies, pipeline contractors, electric utility contractors and real estate developers.

Photos courtesy of Morbark



A WIRTGEN GROUP COMPANY



# THE EVOLUTION OF INNOVATION.

THE EVO-LINE FROM KLEEMANN


**EVO**

**IT'S ALL ABOUT EVOLUTION.** The demands placed on plants in the contracting sector are high: maximum output matched with cost-effective operation – and all for the most diverse applications. This is exactly what distinguishes KLEEMANN EVO-Line plants. Thanks to highly innovative solutions, such as an advanced material flow concept, continuous feed system, outstanding safety concepts and many more, KLEEMANN's EVO-Line mobile jaw crushers, impact crushers and cone crushers deliver a solid plus in performance, efficiency and versatility. Progress calls for real innovation – the KLEEMANN EVO-Line.

➤ [www.wirtgen-group.com/america](http://www.wirtgen-group.com/america)

**WIRTGEN AMERICA, INC.** · 6030 Dana Way · Antioch, TN 37013 · Telephone: 615-501-0600

1001 Lehigh Station Road  
Henrietta, NY 14467  
585-334-3867 • 866-683-5338  
serb@monroetractor.com  
monroetractor.com

6 Equipment Dr., Binghamton, NY 13904  
607-754-6570 • 866-321-4277  
serb@monroetractor.com

5035 Genessee St, Buffalo, NY 14225  
716-681-7100 • 800-834-9606  
bklementowki@monroetractor.com

8194 State Route 415,  
Campbell, NY 14821  
607-739-8741 • 800-866-8912  
kbower@monroetractor.com

7300 Eastman Rd,  
N. Syracuse, NY 13212  
315-452-0000 • 800-287-5286  
mwisniewki@monroetractor.com



**MONROE TRACTOR**  
— we keep you working —





To Place A Classified Ad Phone 1 (800) 836-2888 • Fax (518) 673-2381 • E-mail: [classified@leepub.com](mailto:classified@leepub.com)

RRR Mailing Address Classifieds,  
PO Box 121, Palatine Bridge, NY 13428

#### Number / Classification

- 20 Air Compressors
- 25 Air Tools
- 35 Announcements
- 45 Antiques
- 55 Appraisal Services
- 60 Asphalt Equipment
- 70 Attachments
- 80 Auctions
- 85 Backhoe/Loaders
- 135 Bits
- 150 Buckets
- 155 Building Materials/Supplies
- 157 Building Repair
- 160 Buildings For Sale
- 165 Business Opportunities
- 190 Chain Saws
- 200 Chippers
- 220 Compaction Equipment
- 225 Composting Equipment
- 230 Compressors
- 240 Concrete Mobile Mixers
- 245 Concrete Products
- 255 Construction Demolition
- 265 Construction Eq. For Rent
- 270 Construction Eq. For Sale
- 275 Construction Machinery Wanted
- 277 Construction Services
- 278 Construction Subcontracting
- 280 Construction Supplies
- 300 Conveyors
- 310 Cranes
- 320 Crushing Equipment
- 375 Dozers
- 400 Drills
- 415 Employment Wanted
- 425 Engines
- 430 Excavators
- 470 Financial Services
- 494 For Lease
- 495 For Rent
- 505 Forklifts
- 535 Generators
- 550 Gradalls
- 555 Graders
- 610 Help Wanted
- 635 Hoists
- 705 Legal Notices
- 745 Loaders
- 760 Lumber & Wood Products
- 780 Maintenance & Repair
- 800 Mine Equipment
- 805 Miscellaneous
- 880 Parts
- 885 Parts & Repair
- 890 Pavers
- 925 Pressure Washers
- 950 Real Estate For Sale
- 955 Real Estate Wanted
- 975 Rentals
- 997 Safety Equipment
- 1017 Scrapers
- 1020 Screening Equipment
- 1040 Services Offered
- 1085 Snowplows
- 1097 Sprayers
- 1105 Sweepers
- 1120 Tools
- 1130 Tractors
- 1140 Trailers
- 1145 Training
- 1170 Truck Parts & Equipment
- 1175 Trucking
- 1180 Trucks
- 1205 Wanted

#### Announcements

## ADVERTISING DEADLINE

Thursday, April 18, 2019

For as little as \$10.00 - place a classified ad in

## Rock Road Recycle

Call Peg at **1-800-836-2888**

or **518-673-0111**

or email [classified@leepub.com](mailto:classified@leepub.com)

## 33rd ANNUAL HARD HAT EXPO

Located in the  
**NEW EXPO CENTER**  
**NYS FAIRGROUNDS**

581 State Fair Blvd  
Syracuse, New York 13209

**APRIL 3 - 4, 2019**

**Wednesday 8 AM - 4PM**

**Thursday 8 AM - 3 PM**

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

**800-218-5586**

Hard Hat Expo Produced by the  
Trade Show Division of Lee Newspapers, Inc.  
Sponsored by: [www.rockroadrecycle.com](http://www.rockroadrecycle.com)

#### Announcements

**CHECK YOUR AD - ADVERTISERS** should check their ads on the first week of insertion. Lee Newspapers shall not be liable for typographical, or errors in publication except to the extent of the cost of the first weeks insertion of the ad, and shall also not be liable for damages due to failure to publish an ad. Adjustment for errors is limited to the cost of that portion of the ad wherein the error occurred. **Report any errors to Peg Patrei at 518-673-0111 or 800-836-2888.**

#### ★ ★ ★ ★ ★ ADVERTISERS

Get the best responses from your advertisements by including the age, condition, price and best calling hours. Also, we always recommend insertion for at least 2 issues for maximum benefits. **Call Peg at 1-800-836-2888**

#### Building Materials/Supplies

INSULATION: 1/2" to 4" 4x8 sheets foam insulation. Large quantities available. Discount Pricing. James Weaver, 607-659-7409

#### Announcements

#### Buildings For Sale

## Professional Pole Barns

by **S&L Builders**  
*We build what we sell*  
**No Sub Crews**

**Booking 2019 Projects Now**

Any Size Or Description of Building  
Most Structures Erected Within 30 Days  
Beat Our Price? I Don't Think So!

**570-398-2234 Office**  
**570-660-6832 Cell**

[www.slbuildersllc.com](http://www.slbuildersllc.com) PA094334

#### Buildings For Sale

POLE BARN PACKAGES, metal roofing & siding. Great prices! Homeowners & contractors welcome. All pole barn packages include detailed plans and drawings. Mountain-top Enterprises, 2726 State Hwy. 7, Bainbridge, NY 607-967-4877 [www.metalroofingandmetalsiding.com](http://www.metalroofingandmetalsiding.com)



#### Construction Equipment

Couple Hundred of dozers, skid loaders, backhoes. Several older trucks and cars. Screening plant, large excavator, parts machines, much more. 518-634-2310

#### Building Materials/Supplies

#1-40YR PAINTED STEEL, galvanized & galvalume, also #2 available w/all trim & accessories. Complete Building Packages. Before you buy call Mohawk Metal Sales, 315-853-ROOF(7663)



#### Building Materials/Supplies

#### Building Materials/Supplies

**D&J Supply LLC**  
26 & 29 Ga. Metal Roofing & Siding  
Pre-Engineered Trusses  
Pole Barn Packages - Any Size  
~ Direct Shipments ~  
**Call Us for Your Building Needs**  
Located in Central New York  
**518-568-3562**

#### Buildings For Sale

#### Construction Equipment

IR COMPACTOR SD100, \$28,500; Cat dozer D6H LGP, 6241 hrs., \$65,000; D6D 3206 hrs., severe duty tracks at 60%, straight blade w/tilt & root rake blade, \$36,000; Bobcat 773 high flow hyd. GT bucket & forks, \$9,500; Bobcat S300 GP bucket & forks, \$21,000; Cat wheel loader, 922B, \$11,000; 1000 gallon fuel tank w/containment, \$1,400. Best offers. 585-721-0515



#### Custom Services

**BUSINESS CARDS: 1,000 for only \$60.00, full color glossy.** Give us your existing card or we will design one for you! **FREE SHIPPING** included. Call Lee Newspapers at 518-673-0101 or email [commercialprint@leepub.com](mailto:commercialprint@leepub.com)

#### Construction Machinery Wanted

#### Construction Machinery Wanted

## WANTED TO BUY

**Construction & Manufacturing Equipment**  
**ANY AGE OR CONDITION**

**CASH BUYER**  
**518-848-4669**

#### Construction Services

#### Construction Services



**Zimmerman Repair**  
All types of AG and Construction Equipment Repair.

Penn Yan, New York  
315.536.6040

#### Custom Services

#### Custom Services

## Nolt Welding and Machine

Drilling  
Threading  
Lathe Work  
Keyway Cutting  
CNC Machining



Tappings  
Welding  
Turnings  
Deburring  
Prototypes

**Marlin Nolt**  
3329 Depew Road  
Canandaigua, NY 14424

Production Lines  
Phone (585) 526-6004  
Fax (585) 526-6611

**1-800-836-2888**



To Place A Classified Ad Phone 1 (800) 836-2888 • Fax (518) 673-2381 • E-mail: [classified@leepub.com](mailto:classified@leepub.com)**HARD HAT NEWS CLASSIFIED SECTION**

Mailing Address: Hard Hat News Classifieds, PO Box 121, Palatine Bridge, NY 13428

**Engines****Engines****Carl McQuillen**  
ENGINES INC III

- Block & Cylinder Head Reconditioning
- Crank Shaft Grinding
- Shaft Repair
- Engine Kits

(585) 768-2322

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

8171 East Main Road Le Roy, NY 14482

**Fencing**

LOCUST POSTS, POLES, Split Rails, 6x6's, 4x4's, other hardwood boards and planks, custom cut. Also lots, land cleared, woodlots wanted. 518-883-8284.

**Lumber & Wood Products**

We buy heart pine, fir, oak, & other species.

800-951-9663

[michele@pioneermillworks.com](mailto:michele@pioneermillworks.com)

Pioneer millworks

**Miscellaneous**

**BUSINESS CARD MAGNETS** only \$75.00 for 250. Free Shipping. Call Lee Publications at 518-673-0101. Please allow 7-10 business days for delivery.

**Help Wanted****Help Wanted**

**Need to Hire Someone?  
Looking For Your Next Star  
Employee?**



Check out the  
**ROCK ROAD  
RECYCLE  
JOB BOARD**  
Go to

**[jobs.hardhat.com](http://jobs.hardhat.com)****Services Offered**

Corrugated Signs, Labels, Magnets, Business Cards, Rack Cards, Banners, Postcards, Flyers/Brochures, Business Forms, Non-Carbon Reproduction Forms (NCR), Signs, Pull-Up Banner Stands, Feather Banner Stands, Door Hangers, Envelopes, Invitations, Posters, Calendars, Self-Inking Stamps. *Call with your needs.* Lee Newspapers Inc. 518-673-0101 or [commercialprint@leepub.com](mailto:commercialprint@leepub.com)

**SELF INKING STAMPS**, \$23.00 + Shipping. All sizes. Call Lee Newspapers 518-673-0101 or email [commercialprint@leepub.com](mailto:commercialprint@leepub.com)

**Tools****Trailers**

**TEITSWORTH TRAILERS:** Over 400 trailers in stock! PJ Goosenecks, Dumps, Tilt Tops, Landscape, Car Haulers, Skid Steer trailers, Frontier Live-stock Trailers & much more! Best prices, largest selection. Financing available. Call 585-243-1563.

**Tools****NEW PNEUMATIC PISTON FOR THE ORIGINAL GREASEBUSTER™**

Regular \$45  
Shop Size \$55  
+ Shipping

- Cleans grease fittings & bearings
- Uses hydraulic pressure to force penetrating oil
- Hose extension available

Patented

**THESE TOOLS HAVE 25 YEARS EXPERIENCE****Grease Buster Tools****"THE ORIGINAL"****20 YEARS OF SATISFIED CUSTOMERS**

Made in the USA  
by a Farmer for a Farmer

PO Box 120 • Waynesville, OH 45068

513-897-5142 (phone &amp; fax)

513-312-5779 (cell phone)

[www.greasebuster-tools.net](http://www.greasebuster-tools.net)**Trailers****Trailers****SPECIAL OF THE WEEK****NEW PJ Gooseneck 102"x25'**

20' flat deck + dovetail with 3 spring assist fold over/stand up ramps, 15,680lb GVW, double jacks, LED lights, locking toolbox, spare tire & wheel

**\$7,050**

**Midlakes  
Trailer Sales**

**"We'll hook you up"**

1595 Yale Farm Rd., Romulus, NY 14541

Toll Free 888-585-3580 ~ 315-585-6411

**Trucks****Trucks****Martin's Farm Trucks, LLC**

Trucks for All Your Needs - Specializing in Agri-Business Vehicles



2007 Freightliner Columbia, 14L Detroit, Jake, 10sp, 12/40k axles, air susp, 3.91 ratio, 171" WB, 738k mi **\$17,900**



2006 Mack Granite CV713 AMI-370, Jake, Mack 10sp, 20/46k axles, Hend. Primaax air susp, Quadlock, 264k mi, **\$42,500**

**717-597-0310****4 Easy Ways To Place A ROCK ROAD RECYCLE Classified****1. PHONE IT IN -**

Just give Peggy a call at  
**1-800-836-2888**

**2. FAX IT IN -**

For MasterCard, Visa, American Express or Discover customers... Fill out the form completely and fax to Peggy at **(518) 673-2381**

**3. MAIL IT IN -**

Fill out the form, calculate the cost, enclose your check/money order or credit card information and mail to:

**ROCK ROAD RECYCLE Classifieds,**  
PO Box 121,  
Palatine Bridge, NY 13428

**4. E-MAIL IT IN -**

E-mail your ad to [classified@leepub.com](mailto:classified@leepub.com)  
e-mail or call with your credit card information.

**FOR BEST RESULTS, RUN  
YOUR AD FOR TWO ISSUES!**

Cost per issue: \$10.00 for the first 14 words, 30¢ each additional word.  
(Phone # counts as one word)

Number of Issues to Run \_\_\_\_\_

		\$10.00	\$10.30
\$10.60	\$10.90	\$11.20	\$11.50
\$11.80	\$12.10	\$12.40	\$12.70
\$13.00	\$13.30	\$13.60	\$13.90
\$14.20	\$14.50	\$14.80	\$15.10

Name: (Print) \_\_\_\_\_ County: \_\_\_\_\_  
Street: \_\_\_\_\_ City: \_\_\_\_\_ St.: \_\_\_\_\_ Zip: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
Cell: \_\_\_\_\_ E-mail: \_\_\_\_\_

☐ I have enclosed a Check/Money Order

☐ Please charge my credit card:

☐ American Express

☐ Discover

☐ Visa

☐ MasterCard

Card #:

Exp. Date:

(MM/YY)

\* (REQ.) Card Security Code # \_\_\_\_\_

Signature: \_\_\_\_\_

(for credit card payment only)

Date: \_\_\_\_\_

(MM/YY)



# New Cat® 440 and 450 backhoe loaders deliver performance and comfort to meet the demands of today's customers

The all new Cat® 440 and 450 center pivot models provide industry-leading lifting performance, high breakout forces and improved operating comfort and ergonomics. The new addition to the Cat Backhoe Loader model line-up, the 440 boasts a 25 percent backhoe lifting improvement over the 430F2 and redesigned single tilt loader arms providing parallel lift and versatility in a multitude of applications. The new 450 offers 15 percent higher backhoe lifting capacity than the 450F and introduces an all-new cab for increased operator comfort.

Lift and tilt breakout forces have also significantly increased on both the 440 and 450 to improve machine productivity. A more balanced weight design and longer backhoe stabilizer legs improve operating stability. The new stabilizer systems can be equipped with available guards to prevent damage to the cylinder rod, and optional leg plate guards prevent material build-up on the underside of the stabilizer leg.

The powertrains for both models are anchored by the Cat C4.4 ACERT™ engine, which meets stringent Tier 4 Final emissions standards using a service-free SCR solution for improved operating efficiency. The new 440 and 450 optimize engine speed and pump displacement for excellent performance. The standard autoshift transmission features a sixth gear for improved roading performance and optional lock up torque converter for improved torque and efficiency on grades. New spring-applied hydraulically released (SAHR) brakes provide simplified operation of the parking brake.

## Improved operating efficiency

A completely reengineered hydraulic infrastructure for the operator station features seat-mounted controls to deliver a more comfortable operating position, reducing opera-

**Cat® 440 27**



*These new backhoe loaders feature adjustable auxiliary hydraulic flow to the work tool to efficiently operate powered attachments.*


*Photos courtesy of CAT®*



**3 MARKETS  
ONE RESOURCE**

**Your Dynamic Resource for the aggregate, heavy construction and recycling industries**

**RockRoadRecycle.com**  
**800-218-5586**  
**mstanley@leepub.com**



**CLAD-BUSTER**  
Topsoil Screener

A Lancaster County-made skid steer attachment for turning mountains of earth into ready-to-grade topsoil right where you want it... and when you want it.

See you at the Hard Hat Expo  
**Booth 82**

Made in Ephrata, PA | Patent # 9,631,340

**717-740-2703**  
**BurlyAttachments.com**





The powertrains for both models are anchored by the Cat C4.4 ACERT™ engine, which meets stringent Tier 4 Final emissions standards using a service-free SCR solution for improved operating efficiency.



## New York Land Improvement Contractors of America Annual Convention

**New York LICA will be offering:**

**OSHA 10 Hour Training for Construction**

**Monday, January 7, 2019 - 8:00 am - 3:00 pm**

**&**

**Tuesday, January 8, 2019 - 8:00 am - 12:00 pm**

**Erosion & Sediment Control Certification**

**Lica Members - Free with convention registration -- Non Members \$95.00 per person**

**Monday, January 7, 2019 - 8:00 am - 12:00 pm**

**Certified Excavator Training**

**CPR/Red Cross First Aid**

**Sexual Harrassment Seminar**

**Presentation on the Denitrifying Bioreactors**

**by Larry Geohring**

**Doubletree by Hilton**

**6301 Route 298, East Syracuse, NY**

**PRE-REGISTRATION IS REQUIRED LIMITED SPACE REGISTER TODAY!**

**To Register or for more information: NYLICA**

**3330 Pratt Rd., Batavia, NY 14020**

**Phone or Fax - 585-219-4802 Email - nylica@rochester.rr.com**

tor fatigue over extended shifts. Electronic sensors imbedded in the new design automatically detect the seat position. The controls stay with the operator regardless of forward or reverse operation and eliminate the pilot control pods for backhoe operation, significantly increasing legroom at the rear of the cab. Control design allows the operator to sit at 45 degrees to the rear of the cab for increased operating comfort when truck loading and ditch clearing.

The backhoe loaders' redesigned digital display centers with soft keys affords fast and efficient setting of critical machine functions plus offers clearer visibility of the fuel and water temperature gauges and tachometer. Full text diagnostic descriptions and instruction pop-ups aid in efficient machine operation and trouble-shooting. Up to 25 different user codes can be stored in the new models for operating security and quick pattern changes.

### **Improved load control**

Both the 440 and 450 backhoe loaders are built with common single-tilt loader arms. Electrical sensors positioned at the tilt and lift arm enable parallel arm movement for increased material retention when lifting the loader bucket and safe handling of palletized loads. In-cab easy-to-set programmable kickout allows the operator to quickly establish upper and lower arm positioning for repetitive work like loading trucks. Additionally, return-to-dig limits can be set for efficient loader material excavation.

The 440 and 450 models can be ordered from the factory or easily field retrofitted with the optional loader quick coupler that delivers quick work tool changes and increased machine versatility using the Cat Integrated Tool Carrier (IT) system. Twist-to-connect quick disconnects for both the loader and backhoe arm attachments deliver fast connectivity under pressure. These new backhoe loaders feature adjustable auxiliary hydraulic flow to the work tool to efficiently operate powered attachments.

The new 440 and 450 backhoe loaders come standard with Product Link™ systems that transmit critical machine operating data via VisionLink® back to the office. Key company personnel can be notified of machine fault codes, service reminders, fuel levels and machine utilization, hours and location to improve fleet management.

For more information on Cat backhoe loaders, visit [Cat Backhoe Loaders](http://CatBackhoeLoaders.com). ■

**www.  
rockroadrecycle.com**





# HARD HAT EXPO

Brought to you by  
rockroadrecycle.com



THIS YEAR, LOCATED IN  
THE NEW EXPO CENTER

EXPOSITION CENTER

*The Largest Construction Show East of the Mississippi*

# APRIL 3 & 4, 2019

## NYS Fairgrounds • Syracuse, NY

### Wednesday 8-4 • Thursday 8-3

**OUTDOORS**  
Marketplace

**SKID STEER RODEO**  
on Wednesday!

**TRUCK CORRAL • GIVEAWAYS • DOOR PRIZES**

**MAKE PLANS NOW TO ATTEND!! • FREE ADMISSION • FREE PARKING**

**FOR MORE INFORMATION CALL 800-218-5568 • [www.hardhatexpo.com](http://www.hardhatexpo.com)**



Sales Manager: Matt Stanley • 518-673-0124 • 315-292-2306 • Fax 518-673-3245 • [mstanley@leepub.com](mailto:mstanley@leepub.com)

Show Manager: Ken Maring • 1-800-218-5586 or 518-673-0103 • Fax 518-673-3245 • [kmaring@leepub.com](mailto:kmaring@leepub.com)

Hard Hat Expo is Produced by the Trade Show Division of Lee Newspapers, Inc.

Producers of rockroadrecycle.com • P.O. Box 121, 6113 St Hwy. 5, Palatine Bridge, NY 13428





# COME SEE THESE EXHIBITORS AT THE 2019 HARD HAT EXPO

A-Verdi Storage Containers • 124  
 Absolute Auctions & Realty, Inc • 18  
 Access Compliance • 6  
 Admar Supply • O  
 Allied Building Products • 110  
 Allied Spring • 111  
 American Safety & Supply Inc. • 100  
 Asphalt Zipper, Inc • 5  
 Aspinall's Tree Nursery & Landscaping • 105  
 Auctions International • 39  
 Automatic Lube Systems, Inc • 103  
 Bandit • R  
 Beck Equipment, Inc / Gorilla • 49, 50  
 Big City Sportswear, Inc • 70  
 Blair Supply Corp • 107  
 Bobcat • R  
 Bobcat of Buffalo • Q-3  
 Boss Snowplows • U  
 Brenntag Lubricants • 32  
 Buell Fuel LLC • 46  
 Burly Attachments • 82  
 Business Lease Consultants, Inc • 104  
 Carpenter Industries • 3  
 Cazenovia Equipment Company • 30  
 CB Truck Bodies & Equipment • J-2  
 CJ Logging Equipment • L  
 ClearSpan Fabric Structures • 2  
 Clinton Tractor • K, O-2  
 CNY Drone Works • 48  
 CNY Farm Supply • Y  
 Commonwealth Equipment • 45  
 Comstock LS Inc • 44  
 Conklin • 72, 73  
 Country Folks Construction Equipment Marketplace • 35  
 Countryside Foaming • 71  
 C.P. Ward • 9  
 Cranes 101 • 55  
 Custom Truck One Source • 36, TC-3, TC-4  
 D&W Diesel, Inc • 4  
 Design Crete of America • 118  
 DSI Recycling Systems, Inc • 58  
 E.Centro Welding • 77, TC-10, TC-11  
 Eagle Associated of Cazenovia LLC • 119  
 East Syracuse Chevy • 56, TC-8, TC-9  
 Emerald Equipment Systems Inc • 41  
 Empire Crane • O-5  
 Empire Hydraulics & Machine LLC • 27  
 Empire Pewter Mfg. Co., Inc • 80  
 First Order Survey Repair • 21, 22  
 Five Star Equipment, Inc • W  
 GPS Fleet Consulting • 37  
 Grassland Equipment • A  
 Green Tec - Buckeye Farmers • H-4  
 Hale Trailer Brake & Wheel Inc • 112  
 Haun Welding Supply • S-2

HD Supply / AH Harris • 28, 29  
 Hill Top Tire • 67, 68  
 Hustler Turf • J-1  
 Hybrid Building Solutions, LLC • 11  
 Indeco • O-3C  
 Industrial Tire • 25  
 J's Graphics • 77, TC-10, TC-11  
 J&J Equipment LLC • M  
 JC Smith Inc • I  
 Kenwood Radios - Cutler Communication Sales • 42  
 Kepner Equipment, Inc • 98  
 Keystone Concrete Products • 106  
 Kleis Equipment / Doosan • B  
 Krown Rust Control • 19  
 Kurtz Truck Equipment • T  
 Lacey Heavy Equipment & Truck Center • 96  
 LeafFilter North of New York, LLC • 75  
 Lee's Shops at Wagners Square • 203  
 Liftech Equipment Companies • V  
 Liquitube Marketing International • 122  
 LTA Projects • 69  
 Machinery Trader • 51  
 Magnet Paint • 59  
 Maguire CDJR • 47, TC-5, TC-6, TC-7  
 Martin Truck Bodies • O-3  
 Martin's Outdoor Power Equipment • E  
 McQuade & Bannigan Inc • 43  
 Mid Country Machinery Inc • H-3  
 Mirabito Energy Products • 24  
 Monster Energy • 87, 88, 89  
 Montage Enterprises • X  
 New England Laser & Transit • 21, 22  
 Northeast Stihl • Z-2  
 Northeast Sweepers & Rentals • D  
 NY Water Environment Assoc., Inc • 33  
 NYLICA • 115  
 NYS Association of Town Superintendents of  
 Highways • 113  
 NYSDOL On-Site Consultation • 34  
 Outdoor Power / Cub Cadet • 85, 86  
 Oxford Plastics USA • 91, 92  
 Parker-Helac • 10  
 Penn Power Group • S-3  
 Preferred Powersports • 2081  
 Proactive Technology • S-4  
 RC Mowers • H-2, O-3A  
 Rockledge Equipment LLC • 121  
 RockRoadRecycle.com • 35  
 Roy Teitworth, Inc • 14  
 RP Recovery / Sonetics • 74  
 Runnings • 200  
 Rustkote LLC • 97  
 S&S Tractor Parts, Inc • 114  
 S&W Services, Inc • 94  
 SA Dygert's • 95  
 Schaeffer Specialized Lubricants • 66  
 School of Applied Technology at Alfred

State College • 31  
 Screen Machine Industries • 16  
 Seedway, LLC • 81  
 Sitech Northeast • 57  
 Skill Signal LLC • 52  
 Smith's Heavy Equipment, Inc • 7  
 Sno Depot • 120  
 Service Tire Truck Centers • Q-2  
 Southwestern Petroleum • 76  
 Specialty Tire • 101, 102  
 State Line Auto Auction • 23  
 Steel Sales • 15  
 SteelFab Mfg. • 84  
 Stephenson Equipment Inc • F  
 Steven Willand Inc • S-1  
 Structural Metal Fabricators Inc • 123  
 STS Trailer & Truck • 90  
 Sun Auto Group • 38, TC-1, TC-2  
 Syracuse Blue Print • 13  
 Syracuse Builders Exchange • 12  
 The Root Farm • 78, 79  
 Top Stitch of NY • 53  
 Tora Crushing and Screening (McCloskey) • Q-1  
 Tracey Road Equipment • P  
 Tri-Tank • C, O-3B  
 Trius, Inc • G  
 Unique Paving Materials Corp • 109  
 U.S. Training Consultants, LLC • 54  
 Vantage Equipment • Z-1  
 Vermeer Northeast • O-6  
 Vernon National Shooting Preserve • 205  
 WeCare Denali • 83  
 White's Farm Supply, Inc • N  
 Wm Biers, Inc • 1, O-4  
 Yacano Enterprises LLC • O-1

## LANYARD SPONSOR

Absolute Auctions & Realty Inc

## MAP SPONSOR

Bulldog Trailer Axles

## SHOW BAG SPONSOR

Clinton Tractor

## SKID STEER RODEO TROPHY SPONSOR

Admar Supply

## SKID STEER RODEO EQUIPMENT SPONSOR

Bobcat of CNY  
 Liftech Equipment Company  
 Tracey Road Equipment

## WRISTBAND SPONSOR

State Line Auto Auction





Construction Equipment

MARKETPLACE



Reaching **5,600** New York contractors & **15,000** New York farmers every month in print!

**PLUS** an additional **33,000** construction contractors digitally through our E-Mag, *ROAD*.



USED EQUIPMENT

NEW EQUIPMENT

CONSTRUCTION SUPPLIES

CONSTRUCTION SERVICES

**Construction Equipment Marketplace** hits mailboxes the last Monday of every month (*the same ad will come out the first of the following month in ROAD*). **Deadline** is the Wednesday prior to each Monday's publish date.

Advertise your products and services in two quality markets across both print & digital platforms with one representation.

Call your representative today, or contact Matt Stanley at  
800-218-5586 • mstanley@leepub.com

countryfolks.com

rockroadrecycle.com



# Never Settle.



## Get More. Do More.

When you need to move dirt and rock quickly, you can rely on our range of purposed-built machines. Advanced electronics let drive components work together efficiently to save fuel. Sensor-guided controls give you speed, precision and power. And robust cast steel components stand up to the toughest environments. They are built to last with exclusive Liebherr components. Find your dealer at [liebherr.us/dealers-emt](http://liebherr.us/dealers-emt).

**“We haven’t compromised on anything; why should you?”**

### Tracey Road Equipment

#### Syracuse

6803 Manilus Center Rd, East  
Syracuse, NY 14020

#### Albany

115 Railroad Avenue,  
Albany, NY 12205

#### Batavia

7919 Oak Orchard Road, Route  
98 North, Batavia, NY 14020

#### Binghamton

1523 US-11,  
Kirkwood, NY 13795

#### Queensbury

280 Corinth Rd,  
Queensbury, NY 12804

#### Rochester

300 Middle Rd,  
Henrietta, NY 14467

#### Watertown

19598 Cady Rd,  
Adams Center, NY 13606

**1-800-872-2390**

**[www.traceyroad.com](http://www.traceyroad.com)**

# LIEBHERR





# Business Service Directory

## SITE/OFFICE QUICK REFERENCE GUIDE

\$75 per month

6 months save 10% • 12 months save 20%

### Equipment/Supplies/Services

#### Construction Equipment



SALES • RENTALS • RENT TO OWN

**866-455-6333**

SERVICE/USED PARTS/FABRICATING DEPTS.

sales@beckequipment.com

www.beckequipment.com



SALES • SERVICE • RENT NEW HOLLAND

**WESTCHESTER TRACTOR, INC.**

60 INTERNATIONAL BLVD., BREWSTER, NY 10509

DAN GRIPPO

Sales Representative

Email: dgrippo@wtractor.com

www.wtractor.com

845-278-7766 Office

845-278-4431 Fax

#### Equipment Attachments/Accessories

##### Dave Stern Tire



Since 1917

1 Year/1,000 Hours  
Guarantee for Excavators  
Guaranteed Fit  
Top Quality

**Skid Steer  
Tracks Sprockets • Rollers  
Front & Rear Idlers**

Tires For All Applications

**973-684-1433**

**Fax 973-279-8741**

Email: dave-stern@optonline.net • www.davesterntire.com  
390 McLean Blvd., Paterson, NJ 07513

#### Trucks/Trailers/Accessories



800-848-3468

607-849-3468

607-849-6181 Fax

607-423-4287 Cell

chuck@kurtztruckequipment.com

1085 McGraw - Marathon Road, Marathon, NY 13803  
www.kurtztruckequipment.com



**BUSINESS**  
FLEET & COMMERCIAL DIVISION

5885 E. Circle Drive, Cicero, NY 13039

Call Us For Your Next Company Vehicle Quote!



**(315) 233-5342**

www.DVBIZwheels.com

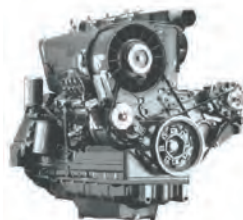


NISSAN Commercial Vehicles

BUSINESS CENTRAL

#### Parts & Repair

##### Deutz/Perkins/Twin Disc



**Foley  
Engines**

800.233.6539

Since 1916!

#### Trucks/Trailers/Accessories

##### THE TRAILER SHOP

**TRI TANK CORP.**

Parts, Sales & Service

Check out our current  
inventory at [tritank.com](http://tritank.com)

315-451-8663

115 Farrell Road

Syracuse, NY 13209



## ROAD

### BUSINESS CATEGORIES

#### Equipment Suppliers & Services

Aggregate Eq  
Earthmoving/Landscaping/Land Clearing Eq  
Environmental Compliance  
Forestry/Logging  
Highway Construction Eq  
Highway Maintenance Eq  
Lifting/Material Handling Eq  
Parts & Repair  
Power Generation/Lighting  
Shop/Warehouse Eq  
Storage/Containers  
Trucks/Trailers  
Used Eq • Utility  
Wood Processing Eq  
Equipment Attachments/Accessories  
Tools • Other

#### Materials & Supplies

Construction & Building  
Fuels/Lubrication Supplies  
Landscaping  
Office/Warehouse  
Other

#### Professional Services

Accounting/Tax Consultation/Preparation  
Employee Search  
Environmental Consultation  
Heating  
Insurance • Legal  
Personnel Management  
Safety Consultation  
Trucking/Shipping Services  
Other

#### Software/Computing/Info. Management

Business Management (office/inventory)  
Bid Preparation/Estimating  
GPS  
Fleet Management  
Other



To advertise, contact Tina Krieger at  
518-673-0108 • [tkrieger@leepub.com](mailto:tkrieger@leepub.com)







# THE R EVOLUTION BEGINS.

## INTRODUCING BOBCAT **R**-SERIES EXCAVATORS

Robust. Remarkable. Revolutionary. However you describe them, R-Series compact excavators are the best yet from Bobcat Company. R you ready for the revolution?

► Take a closer look at NEW  
R-Series compact excavators:  
**[Bobcat.com/MyR-Series](http://Bobcat.com/MyR-Series)**

Bobcat®, the Bobcat logo and the colors of the Bobcat machine are registered trademarks of Bobcat Company in the United States and various other countries.  
©2017 Bobcat Company. All rights reserved. I 53663-8



**Bobcat®**

*One Tough Animal.*

Authorized Bobcat Dealers

### **CONNECTICUT**

**Bobcat of Connecticut, Inc.**

**East Hartford**

860-282-2648

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

**Bobcat of Stratford**

**Stratford**

203-380-2300

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

### **MASSACHUSETTS**

**Bobcat of Greater Springfield**

**West Springfield**

413-746-4647

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

**Bobcat of Worcester**

**Auburn**

508-752-8844

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

### **NEW JERSEY**

**Bobcat of North Jersey**

**Totowa**

973-774-9500

877-9-BOBCAT

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

### **NEW YORK**

**Summit Handling Systems Inc.**

**Walden**

845-569-8195

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

**Warner Sales & Service**

**Rome**

315-336-0311

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

### **RHODE ISLAND**

**Bobcat of Rhode Island**

**Warwick**

401-921-4300

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



# Bandit Builds Your Bottom Line.



## You Deserve the Best.

From our most compact stump grinders and hand-fed chippers through our largest whole tree chippers and The Beast® recyclers, Bandit® equipment is built to make you money.

We reduce your costs by maximizing fuel efficiency and reducing downtime. And we increase your income by producing the highest quality end product for your market.

Bandit builds the best hand-fed chippers, stump grinders, whole tree chippers, The Beast recyclers, track carriers and skid steer attachments in the industry. And equally as important... Bandit Builds Your Bottom Line.



**Bandit**  
INDUSTRIES, INC.

www.banditchippers.com | 1.800.952.0178 | Remus, MI - USA

### VISIT YOUR NEAREST AUTHORIZED DEALER LOCATION

#### CLEAVES CO. INC.

300 Reservoir St.  
Needham, MA 02494  
781-449-0833

lenny.cleaves@cleavesco.com  
www.cleavesco.com

#### ROBERT H. FINKE & SONS INC.

1569 U.S. Rt 9W  
Selkirk, NY 12158  
518-767-9331

dfiacco@finkeequipment.com  
www.finkeequipment.com

#### BOBCAT OF SARATOGA

1279 Rt 9  
Gansevoort, NY 12831  
518-798-9283

dfiacco@finkeequipment.com  
www.bobcatofsaratoga.com



# Built To Spec by Kurtz Truck Equipment

## Custom Solutions for Specialty Needs



**SCOTT  
TRUCK BODIES**



**Dump Trailers  
Propane/Petroleum  
Delivery Units  
Elec./Hyd. Hoist  
Crane Trucks  
Accessories**



**Tool Boxes  
Dump Bodies  
Service Bodies  
Platform Bodies  
Cylinder Bodies  
Material Handling Equip.**



# KURTZ TRUCK EQUIP., INC.

1085 McGraw-Marathon Rd.

Marathon, NY

**800-848-3468 / 607-849-3468**







Want to run strong equipment?  
Run Doosan.

Visit us today to learn more.



Barry Equipment  
30 Birch Island Road, Webster, MA 01570  
508-949-0005  
joebarry@barryequipment.com  
www.barryequipment.com



Hoffman Equipment  
300 South Randolphville Road, Piscataway, NJ 08854  
732-752-3600  
sales@hoffmanequip.com  
www.hoffmanequip.com



Doosan® and the Doosan logo are registered trademarks of Doosan Corp. in the United States and various other countries around the world.



## New offerings from Engcon

### Low-flow compactor series for excavators

Engcon recently announced it will launch a series of entirely new low-flow compactors that can be powered by tiltrotators in 2019. According to Engcon, this will extend the area of use considerably and make excavators both more efficient and safer.

Engcon has manufactured compactors for excavators since the 1990s, but the problem hitherto was their demand for such a high hydraulic flow that they could not be connected directly to the tiltrotator's extra outlet. This meant the compactors could not be rotated freely. Engcon has solved this problem with the newly developed series of low-flow compactors.

"We know that the compactor/excavator combination is ideal, as it means a major improvement in the work environment for ground workers, who must otherwise walk and control compactors down in the excavation, whose nature can vary a great deal," said Johan Johansson, designer and project manager for Engcon's new compactor series.

Engcon is introducing three models – the PC3500, the PC6000 and the PC9500 – where PC stands for plate compactor and the numerals indicate the compaction force in kg for each of the compactors.

The PC3500 will compact with approximately 7,715 lbs-force, the PC6000 will compact with approximately 13,228 lbf and the PC9500 will compact with approximately 20,944 lbf.

"Another major advantage when using compactors on excavators is the marked improvement in safety for ground workers. For example, when compacting in deep excavations there is a great risk that the vibrations from the compactor will cause a collapse, burying people under volumes of heavy soil," declared Johansson.

In addition to the improved working environment and reduced risk of personal injury, Engcon's compactors can be used on inclines where conventional soil compaction with rollers or hand-operated compactors is not possible. This includes everything from ordinary road embankments to compaction around bridge supports, erosion protection along watercourses and more.

### Sorting grapples: Stronger, better suited

They've also introduced a new generation of rock and sorting grapples. The new grapples were displayed at Bauma, the world's leading trade fair for construction machinery, held in Munich from April 8 - 14.

Fifteen years have passed since Engcon launched the SK stone and sorting grabs, and over the years they have become increasingly common accessories that make excavators even more useful and flexible. But because tiltrotators have developed a great deal in 15 years and excavators are now more powerful, Engcon is adapting the grabs to meet today's needs by strengthening them and making them more suitable as accessories.

"In addition to strengthening the new grabs to make them more suitable for new generation tiltrotators and excavators, we will make sure they are more suitable as accessories," said Johan Johansson, designer at Engcon Group.

Johansson reported that the grab arms will be closer together to more easily retain small items that otherwise would run through the grabs. They will also come ready for the installation of side plates. This will make converting a stone and sorting grab into a clamshell bucket quick and easy.

As before, the attachment points will be bolted on and ready for Engcon's EC-Oil connector. All joints will be fitted with expander bolts to minimize play, cutters will be bolted-on for simple replacement and ready for mounting bucket teeth. The new grabs will be available in six sizes suitable for excavators from 1.5 up to 33 metric tons.

The SG12 will be the first model in the new grab series for release; it has a grab area of 3.6 ft<sup>2</sup> and is suitable for excavators in the 6 - 12 metric ton class. Production is planned to begin in the summer of 2019. ■



Engcon's compactors can be used on inclines where conventional soil compaction with rollers or hand-operated compactors is not possible.



Engcon recently introduced a new generation of rock and sorting grapples.  
Photo courtesy of Engcon



# THE NEXT GENERATION CAT® D6 & D6 XE DOZERS

UP TO 35% MORE FUEL EFFICIENT



CAT D6



CAT D6 XE

**POWER. AGILITY. INTELLIGENCE.**  
IT'S ALL YOURS WITH ALL-NEW CAT DOZERS.

Want reliability, fuel savings and low maintenance costs? The new D6 delivers all that and more. Looking for best-in-class productivity and fuel efficiency from first cut to final grade? Look no further than the new D6 XE. Whichever Cat® Dozer you pick, you get:

Plus a quiet, comfortable, next generation cab and a big selection of undercarriage, drive train and blade options to meet virtually any job requirement. Come see the all-new D6 and D6 XE at your local Cat dealer or explore your choices at [www.NECatDealers.com/D6](http://www.NECatDealers.com/D6).

UP TO **50%**  
MORE PRODUCTIVITY

UP TO **35%** MORE  
FUEL EFFICIENCY

UP TO **12%** LOWER  
MAINTENANCE COST

Learn more about the new Cat D6 & D6 XE Dozers by visiting – [www.NECatDealer.com/D6](http://www.NECatDealer.com/D6)



SINCE 1948

**Cleveland Brothers**  
[www.clevelandbrothers.com](http://www.clevelandbrothers.com)  
Murrysville, PA  
844-569-9650



SINCE 1957

**Foley, Incorporated**  
[www.foleyinc.com](http://www.foleyinc.com)  
Piscataway, NJ  
732-885-5555



SINCE 1923

**H.O. Penn Machinery**  
[www.hopenn.com](http://www.hopenn.com)  
Poughkeepsie, NY  
844-CAT-1923



SINCE 1960

**Milton CAT**  
[www.miltoncat.com](http://www.miltoncat.com)  
Milford, MA  
866-385-8538





Vol. 28 No. 6 April 2019

# Vermee

*Recycling waste wood  
into valuable  
products made easy*







- Wood waste recycling
- Crushing & screening
- Compact units



Recycling waste wood into valuable products made easy

RockRoadRecycle staff writer

On the Cover:  
L-R:  
Todd Hahn, Chad Wallace, Kimberly Bell, Sam Elder and Josh Doherty from Homer Industries with one of their Vermeer tub grinders.

PG 3

20

Classifieds

6

Reduce downtime and maximize productivity with daily maintenance of your CTL



8

How tech is changing the equipment rental market



12

High capacity eucalyptus and acacia bark processing



16

SDLG LG946L wheel loaders aid Australian company's timber recycling operations



Mention of product names in articles does not indicate an endorsement. We do not guarantee claims stated by advertisers. Permission is granted for reprinting of editorial content provided RockRoadRecycle.com is given full credit.

Lee Newspapers, Inc.  
PO Box 121 / 6113 St. Hwy. 5  
Palatine Bridge, NY 13248  
PH 518-673-3237

Associations and affiliations:





# Recycling waste wood into valuable products made easy

by RockRoadRecycle staff writer  
Photos courtesy Vermeer

**T**he recycling of wood in its many forms produces enormous environmental and commercial benefits for businesses and society as a whole. Wood recyclers vary in the ranges of products they make from waste wood — with the most common being feedstock for panel board, animal beddings (from clean wood) and biomass fuel. Wood waste itself falls into many categories, and must be treated differently depending on its size and previous use, but one of the major uses of recycled wood is in the making of compost. Composters especially prize wood as a good source of carbon-rich material that will aerate their piles and provide food for the healthy bacteria that break down organic matter.

The recycling of wood is becoming increasingly an accepted practice. In many parts of the U.S., many communities now offer waste collection services. For instance, one such scheme in North Carolina involves waste wood being placed in bins or in biodegradable yard waste bags, or tied in bundles and left sitting at the curb. In Arkansas, tree limbs no larger than 6 feet long and 6 inches in diameter are placed besides refuse bins containing leaves, weeds and twigs. Some cities have special collection days for wood instead of regular yard waste collection, with Houston residents placing branches and stumps beside the curb during odd-numbered months.

As well as these public authority initiatives, many private companies are now operating viable businesses turning waste wood into valuable new products. No matter how the wood arrives at the processing plant and no matter its end use, it first has to be recycled. Scrap lumber from home improvement projects and other untreated wood has a number of uses for recycling.

Many private companies (and sometimes specialist recyclers) use the wood to create home and garden products taking in untreated lumber. Treated or painted wood, however, is another matter, as chemicals used in production means it cannot enter the food chain or be used where chemicals can cause harm. Unfortunately, this means that the only solution is often landfilling, since even burning as a fuel source releases chemicals into the atmosphere.

As the case stories in this article illustrate, with the right know-how and the right equipment, even building-rubble wood can be recycled. The first part of any wood recycling initiative is to break down the wood so it can be processed. This is usually done using a heavy duty primary shredder, although if the wood is of a small size this step can be skipped. Following the initial shredding where the wood is broken down into manageable “lumps”, it is then

either processed by a secondary shredder and/or a wood chipper. From then a screener (often a circular rotation trommel) is used to sort out fractions and sizes. What happens next is very dependent on the use the sized material is put to — with tub grinders and windrow turners often being used to process the wood further.

## Recycling and forestry

Leading the way in the emerging US composting market are tree care and recycling contractors who have expanded their operations to give their customers more. For these organizations, breaking into the composting market has led to substantial growth through hard work, education and adding the right equipment to produce high-quality materials. Seeing growth in the emerging composting market in the Midwest are three businesses based in Illinois. While none of them started in the wood recycling business or composting market, all have experienced success, showing the way forward.

## From nursery to composting

Illinois based Garden Prairie Organics (GPO) is a family business founded in 2009. The company started off using compost in its tree nursery and seeing the benefits, they decided to begin processing compost for themselves and the tree care customers they work with. According to Mike



L-R: Charlie Murphy and Pat Murphy from Garden Prairie Organics with their trusty Vermeer TG7000.

Dimucci, manager of GPO, the Midwest compost market is still at its embryonic stages. “There are still some stigmas out there about composting; a lot of customers still think it smells because they used it 15 years ago, and they got a bad batch or used something that was not completely processed. Compost — as long as it’s been processed properly — is a viable alternative for waste disposal and organic material use.”

## Waste recycling process

GPO employs a multi-step, closely monitored composting process with measured inputs of water, air and carbon-rich and nitrogen-rich materials. The organic decomposition process is aided by grinding plant matter, adding water when needed and ensuring proper aeration by regularly turning the mixture. GPO receives organic materials for composting in many shapes and sizes and now operate a Vermeer® TG7000 tub grinder, a Vermeer CT718 compost turner and two Vermeer trommel screens (a 521 unit and a 626 model) to handle all the material.

“We use our Vermeer tub grinder to process material as it comes into our facility. We then mix it the way we want it, put it out in the windrows and take the temperature, as well as check the oxygen and moisture levels. Then, we run our CT718 compost turner through it and process it up. Once it’s finished material, we’ll cure it, and then run it through one of our two screeners, and finish with a premium compost.”

The type and size of the finished product depends on GPO’s customer needs. For



A Vermeer trommel plays an important role in turning waste wood into compost for GPO.



example, the compost a golf course needs is finer, a landscape contractor needs a medium product and the material can be coarser for agricultural uses.

### Giving customers more

Down the road in Elgin, IL, another company found that expanding its operations into composting and mulch has led to long-term success. Midwest Compost, LLC started in 2000 when Charlie Murphy (and now his son Pat) opened a yard waste transfer station in West Chicago, IL, collecting and recycling waste. The father and son team now have a second transfer station and have seen many landscapers in those early years dropping off yard waste and leaving with empty trucks. That single observation would eventually lead to what Midwest Compost is today: a manufacturer of mulch and compost that sells and distributes landscaping material to professional contractors as well as homeowners around the greater Chicago area.

At first, Midwest Compost relied on other manufacturers to bring in materials to their facilities, and then they would sell it to the landscapers who were dumping off yard debris. "The idea was to help our customers be more efficient with their time," explains Pat Murphy, operations manager for Midwest Compost. "It didn't take long for us to determine that selling mulch and compost would be a good idea for our businesses."

The Murphys decided it didn't make sense to rely on others to supply them with the material when they had access to the raw materials needed to produce their products. They turned to their local Vermeer dealer to look at their options for grinding their own material. "When we started recycling our wood waste, we would rent a tub grinder from Vermeer Midwest for a few days at a time," explains Pat. "That option worked well for a while, but we needed to increase the amount of grinding we were doing to keep up with demand, which is why we subcontracted the work out to another company that owned a Vermeer TG9000 tub grinder. We eventually grew the business to a point where it made more sense for us to purchase our own machine: a Vermeer TG7000 tub grinder." Now, during the peak working season, the company employs up to 12 people to manufacture mulch and compost, mainly from waste wood.

### Branching out with land clearing and much more

Homer Companies planted its roots in 1950, when Joseph Reposh began offering local Lockport, IL, residents and businesses reasonably priced tree care services. Known then as Homer Tree Service, the little family-owned company slowly grew over three decades before Ronald Reposh purchased it from his father in 1985. Under his watchful eye, the company continued to grow steadily until the business really took off in 1997 when it expanded into land clearing services. This led to the creation of a mulch and grinding division — Homer Industries — in 2003. The company expanded again in 2013, creating an environmental division committed to re-establishing natural native habitats around the Midwest.

### Grinding out profits

Today, Homer Companies employs more than 200 people across its four different divisions and operates a fleet of 400 pieces of equipment. According to Todd Hahn, chief executive of Homer Industries, the division he works for was established to make use of all the raw material the tree service division was producing. "The business went from having one to two loads of chips per day to producing 20 plus loads every day," he explained. "By adding a few more pieces of equipment, we were able to create a new service for current customers and establish several new partnerships."

Homer Industries receives most of its raw material from its land-clearing operations but has also opened its yard up to other tree care professionals, municipalities and landscapers for wood waste disposal. The material is then turned into a variety of mulch products including playground surfacing, color enriched mulch and hardwood mulch. According to Haun, around 80 percent of products are sold in bulk, by the truckload. The rest is bagged and sold locally. "Wholesalers, landscapers and cities make up the largest percentage of our customer base," he explained. "We also sell to do-it-yourself homeowners in the area who need a small truckload of mulch from time to time."

With all the competition in the mulch industry, Homer Industries believes it's the quality of its end product that makes them stand out. "There are a lot of variables involved with making high end mulch products. To ensure customers are getting exactly what they want, we have invested in the right equipment. It is those machines that help us control the material size consistency and sort material."

### Heart of the operation

Homer Industries uses Vermeer tub grinders to process most of the raw material it receives. The company runs a Vermeer TG7000 tub grinder and three Vermeer TG9000 tub grinders. "While we do use chippers and some horizontal grinders in our land clearing operations, back at our yard we use all tub grinders," Todd explained. "They are fast, efficient and can handle the variety of material." Homer Industries purchased its first Vermeer TG7000 tub grinder shortly after expanding into mulch and grinding. As business increased, so did the amount of raw material that needed to be processed, which led them to investing in two TG9000 tub grinders over the course of the next several years.

In the fall of 2017, Homer Industries determined it was time to further increase its processing capabilities again and purchased a third TG9000. The TG9000 is the most powerful tub grinder Vermeer produces. It features a large diameter opening with an inside diameter of 11 feet (3.4 m). For Homer Industries, that means they can process large pieces of wood and regrind material processed on jobsites quickly. Also, the Vermeer patented thrown object restraint system (TORS) helps limit the amount of thrown debris while working. "It's a great safety feature in the yard and when we have one of our grinders working in the field," added Haun.

The reason Homer Industries chose Vermeer tub grinders was because of the quality of the machine build, as well as the support they receive from Vermeer Midwest, the local dealer.

"When Homer Industries started, it was a constant struggle to keep up with demand, so we didn't have room for downtime," explained Haun. "Vermeer Midwest's Aurora location is just 20 minutes from our facility, and I really could at times get a mechanic from there to the yard quicker than I could get one of our guys. So, service has been over-the-top."

### Land clearing

Homer Companies' land clearing customers include private development companies, municipalities and state highway departments. Its crews have been involved with several of the largest Illinois and Indiana highway expansion projects over the last two decades. They are usually the first contractor on a job preparing the land for development. Homer Tree Service was a part of the recent I-69 expansion project from Bloomington to Indian Creek, IN. Crews cleared 21 miles of right-of-way so the road could be expanded from two lanes to four. According to Hahn, the terrain was rough on most of that project and Homer Tree Service crews processed a lot of big timber.



Homer Industries receives most of its raw material from its land-clearing operations but has also opened its yard up to other tree care professionals, municipalities and landscapers for wood waste disposal.  
Photo courtesy of Homer Industries





Denise Houghtaling and husband Mark from MW Horticulture with remnants of "Mt. Irma" in the background.

Below:

The trommel screen accurately produces sized material for MW Horticulture Recycling Facility.



On jobs like this, the smaller material is processed onsite using chippers, with feller bunchers being used to clear large trees. Eventually, all the material is transported back to the yard in Lockport for additional processing. Large material is cut and fed through the TG9000 and blended with other material. Then, everything gets reground, sorted and either prepared for bulk shipping or bagged.

#### Working together

In addition to clearing land for development, the Homer Companies team is also extremely knowledgeable about restoring land back to its natural state. Homer Environmental specializes in restoring, replenishing and replanting sites where old abandoned infrastructures once stood. Of course, before restoration can begin, overburden needs to be removed. Homer Tree Service's land clearing crews are again often the first on the scene to give the environmental team a fresh slate to work with.

The two divisions worked together recently to help transform the old Joliet Arsenal in Will County, IL, into Midewin National Tallgrass Prairie, the first national tallgrass prairie in the country and one of the newest units of the National Forest System. Homer Tree Service cleared several acres of land and then Homer Environmental restored the area with native plants. The site is now home to around 60 bison. "The Midewin project is just one example of how our different divisions work together to provide a single sourced solution for our customers," Hahn said. "We also work with the tree care division after major storms hit local communities. They are often the first ones on site and we'll follow with a tub grinder so a community can clean up as quickly as possible."

#### Cleaning up after Hurricane Irma

Following Hurricane Irma, municipalities and private contractors started the long process of cleaning up after the flood waters has subsided. This involved processing all of the wood waste created by the storm. Fort Myers was one of the communities left in disarray and according to local resident and owner of MW Horticulture Recycling Facility, Inc., Denise Houghtaling, trees in the area suffered the most. "By the time Hurricane Irma reached Fort Myers, the winds weren't as strong, hence we didn't suffer as much structural damage as they did on the east coast of Florida," she explained. "However, we had already been dealing with flooding, so the roots of the trees were unstable. Hurricane Irma's strong winds and additional rainfall created a bad situation and trees toppled."

The day after Hurricane Irma struck, Fort Myers municipality crews and independent contractors began removing all of the debris from the city's streets, residences and commons.

At the height of the clean-up effort, county officials estimated that more than 60,000 cubic yards (45,873 cbm) of waste were being moved every day. A majority of Fort Myers' tree and yard waste found its way to MW Horticulture Recycling Facility, a family owned organic compost producer serving Fort Myers and the surrounding area. The MW Horticulture Recycling Facility began operation in 2013 when Denise and her husband Mark purchased a bankrupt mulch company and turned it into a successful operation. Today, MW Horticulture Recycling Facility operates with 22 employees, has two facilities and recently opened a landscape and garden supply depot.

#### Time to grind

Houghtaling stated that in the first nine days after Hurricane Irma, her team took in approximately two months' worth of vegetation and wood at its primary location. "We affectionately refer to that huge pile of unprocessed material as 'Mount Irma,'" she joked. "We already owned a pretty sizable fleet before Hurricane Irma, but in order to get through it all, we brought in several more machines." Before the hurricane, MW Horticulture Recycling Facility's primary grinder was a Vermeer TG7000 tub grinder, and the company used Vermeer TR521 and TR626 trommel screens to separate its various compost, dirt and mulch mixtures. Now the company has added a Vermeer HG8000 horizontal grinder.

"We are extremely diligent about our composting process; it takes a full eight months for us to ensure the end product is up to our standards," Houghtaling said. "The Vermeer HG8000 horizontal grinder has been a lifesaver for us. The thing is unbelievable; the amount of material that it pushes through. Any time someone stops by, they are just amazed." The combination of MW Horticulture Recycling Facility's new horizontal grinder and tub grinder has helped the local business make a heavy dent in "Mount Irma".

#### Turning waste wood into quality compost

There is no waste at MW Horticulture Recycling Facility; the team now recycles 100 percent of the material it takes in and have perfected the waste wood composting process. "We don't add any bio solids, manure, pre-treated wood or any other foreign objects to our compost, topsoil or mulch," commented Houghtaling. "All of our products are produced from yard debris only." After grinding is complete, the facility processes its compost for eight months with diligent watering, aerating and heating. "It's like an aged wine; something good like our compost takes time. The outcome of the process is a certified organic compost that is Organic Material Review Institute (OMRI) listed. And the University of Florida Soiling Testing Laboratory has said our nutrient values are well above average." ■





Source: [casece.com/resources](http://casece.com/resources)

**B**y taking the following steps each day pre- and post-operation, Compact Track Loader owners and operators can help to prevent costly downtime events.

Today's high-performance compact track loaders (CTLs) can provide several productivity advantages on nearly any jobsite. However, these competitive advantages can be lost if a CTL isn't running at peak performance, and there are several things that equipment owners can do to improve productivity and extend service life.

By taking the following steps each day pre- and post-operation, equipment owners and operators can help to prevent bad things from happening before they turn into costly downtime events, and will ensure that fleet managers can address concerns in equipment health and upkeep at times throughout the day with the least impact on productivity.

#### Fluid levels

Check fluid levels – engine and hydraulic oil, diesel and diesel exhaust fluid (DEF), and coolant. Fluids are the lifeblood of each machine and require specified levels to operate properly. A sudden drop in fluid levels may point to any number of problems with the machine that require immediate attention (blown hoses, leaking filter, etc.). Using OEM-spec engine oils helps to ensure that a machine will operate as efficiently as possible throughout its lifetime. It also ensures that the machine stays on the proper maintenance schedule that it was designed for.

#### Engine compartment

Clear any accumulated debris from around the radiator and other engine components. The engine is made of moving parts and belts that generate heat and friction – and systems designed to cool the engine compartment require room to breathe. It's important to check and remove any clutter or material from the jobsite that may have found its way into the engine compartment. Allowing debris to build up in the engine compartment can cause overheating and other issues.

#### Filters

Check the fuel, oil, air and other filters for signs of damage or leaking. Filters are often a quick and easy item to replace – and operating with properly working filters can prevent any number of problems with the machine.

Today's machines are engineered to the highest performance standards—each machine is a highly engineered system of complex working parts, which should be maintained by only using genuine filters and lubricants to ensure continued optimal performance. Using non-OEM-specified filters creates a weak link in the system, and can compromise the performance of a machine.

#### Belts

Check belts (alternator, fan, etc.). A worn and frayed belt is another wear item that is relatively easy to replace. If noticed before it fails, then the operator can communicate with the maintenance team to replace during scheduled downtime or the next PM to ensure it doesn't create unplanned downtime during the course of the work day.

#### Grease points

Identify greasing points and frequency. Every machine and every OEM is different – and keeping the machine properly greased is critical considering the power and friction created by these giant pieces of steel working together. It can also help keep out moisture and abrasive materials from the jobsite that can work into joints and friction points if not properly greased.

#### Leaks

Check for leaking or pooled fluid around and under the machine. This is an easy indicator that something isn't right, and the source of that fluid should be identified and addressed/fixed before operation, and those fluids should be replaced.

#### Hydraulics

Check auxiliary hydraulic connections and pressure. Simply check the integrity of the coupling structure and that it hasn't been damaged. Newer equipment often includes pressure relieving quick disconnects – take the time to relieve the pressure when dis-

connecting attachments.

#### Structural damage

Check for new signs of structural damage, scratches or dents on the machine. This is almost more important post-operation than it is pre-operation. Once done for the day, noticing and identifying any damage to the machine ensures that needed repairs are made before the next shift starts, and also allows the operator to identify how that damage occurred. Is there another structure on site that the machine came into contact with? Is there damage elsewhere on site that needs to be addressed? Similarly, if damage is noticed before a shift starts, and it was not there when the operator inspected it the day before, that pinpoints that something happened overnight or that there was possible unauthorized use of the machine.

#### Attachments

Check for damage on ground engaging tools (buckets, teeth, etc.). A machine's performance is affected greatly by the efficiency of how its working tools engage with the material it is digging into and moving. Worn or broken buckets and teeth lead to inefficient operation, greater fuel use, and greater wear and tear to the machine as a whole. Identifying and addressing these elements of the machine before they become problematic will make the operator more productive and efficient.

Inspect the attachment mount-up to ensure proper connection. This includes checking that the coupler is flush and fully engaged (either via manual or automatic/hydraulic means), and that the hydraulic hoses (and electrical connections, if applicable) are properly connected.

#### Inside the cab

Inspect the operator compartment and clear away any debris or obstructions. Clutter can be distracting – and anything in the cab that ultimately prevents the full range of controls from being engaged is a hazard to operation. Check and set mirrors. This might seem obvious, but visibility is critical to jobsite awareness, safety and productivity. Having mirrors set to the operator's preference will make them a better operator.

Familiarize yourself with the control style and change as needed. Most of today's machine's come with rather simple pattern selectors that allow the operator to use the control pattern that they are most familiar with. This will lead to greater productivity and greater operator comfort and satisfaction.

Identify auxiliary/attachment controls. Each type and style of machine controls attachments differently – operators should identify how to properly work their attachment prior to attempting to use it.

#### Console indicators/cameras

Start the engine and review console indicators and warnings. Today's machines are built to give the operator more feedback on the workings of internal systems than ever previously available. Take note of any flashing symbols or warning lights, check the owner's manual and consult with maintenance staff prior to operation.

If equipped, check the rearview camera. Again – jobsite awareness and safety is paramount. If that rearview camera is otherwise obstructed or disabled, it handicaps the operator's ability to have full awareness of the worksite around him/her.

Finally, review all external surroundings from the cab. Know your work site, and the people and structures that exist inside your working envelope. This will ensure optimal jobsite safety and productivity.

#### Proper maintenance = profit

Equipment manufacturers have introduced several innovations over the years to simplify maintenance procedures and extend the service life of CTLs. However, the overall health and longevity of a machine often comes down to daily and weekly maintenance procedures. The operator and other jobsite personnel are often the first line of defense against costly equipment downtime, so it is critical for owners and operators to follow maintenance best practices to ensure that their CTLs contribute to a safe and productive operation, and a strong bottom line. ■



# Never Settle.



## LIEBHERR

### Handle More.

Waste and recycling applications demand machines that are designed for the job. Liebherr has been precision-engineering efficient technologies for decades, and our Liebherr Handlers and Industrial Wheel Loaders are no exception. They feature industry-specific guarding to protect key components, offer smooth operation, and excellent control so you handle more, faster. We know material handling and we have a long history of developing specialized attachments, booms and sticks for this industry. Find your dealer at [liebherr.us/dealers-emt](http://liebherr.us/dealers-emt).

**“We haven’t compromised on anything; why should you?”**

#### Tracey Road Equipment

##### Syracuse

6803 Manilus Center Rd, East  
Syracuse, NY 14020

##### Batavia

7919 Oak Orchard Road, Route  
98 North, Batavia, NY 14020

##### Queensbury

280 Corinth Rd,  
Queensbury, NY 12804

##### Watertown

19598 Cady Rd,  
Adams Center, NY 13606

##### Albany

115 Railroad Avenue,  
Albany, NY 12205

##### Binghamton

1523 US-11,  
Kirkwood, NY 13795

##### Rochester

300 Middle Rd,  
Henrietta, NY 14467

**1-800-872-2390**

**[www.traceyroad.com](http://www.traceyroad.com)**





The interesting part of renting a piece of equipment instead of owning it is the ability to try new technology as it becomes available.



## How tech is changing the equipment rental market

Source: [conexpoconagg.com](http://conexpoconagg.com)

Construction equipment is advancing with the advent of new technology, which gives owners and operators the tools to work as smart as possible. The technology is also rapidly changing the rental market, offering new opportunities to construction businesses.

Construction equipment technology can range from GPS systems on dozers, graders and excavators to hybrid power systems designed to propel the equipment into a new era of fuel economy.

"Technology plays a crucial role in the cab by making machines and operators work more efficiently," explains Kevin Forestell, CEO, DOZR. "There is also a big safety factor that technology affects — the [more] knowledge operators have about their machine, the safer they can work on the job."

This is true of both equipment that is owned and rented. Today, new rental machines offer new capabilities to improve both efficiency and safety at the job site.

### How technology factors in rentals

The benefits of renting equipment today are endless and according to Forestell there are six key reasons:

- Avoiding long-term commitments
- Underutilization
- No maintenance or repair costs
- More job opportunities
- No equipment storage issues
- No transportation challenges

However, perhaps one of the biggest trends today is that technology can make equipment more expensive, which means renting may be a more cost-effective option for many construction companies to leverage the technology without making a large upfront investment.

"Renting also helps operators to try out new technology they aren't using or don't need for every job," explains Forestell.

Dustin Barden, global account manager, Ditch Witch, says the interesting part of renting a piece of equipment instead of owning it is the ability to try new technology as it becomes available.

"When renting, the competitiveness of the rental industry

has driven companies to have new fleets with the newest features," he explains. "As a rental customer, you will have the option of trying the newest models each time you rent equipment."

He adds that by trying the features and using the latest technology when renting, an equipment operator becomes more informed should they ever decide to own that type of equipment.

Equipment continues to advance in a number of different ways. For instance, enclosed cabs continue to evolve and are increasingly more sophisticated due to new technology integrations. Many of today's cabs feature optimized operator interfaces, including LED screens to improve visibility into machine functions and diagnostics.

Additionally, there is a greater drive to improve the environmental impact of equipment — primarily using fewer resources to keep equipment running. Other advances are often driven by the needs of the business, which can include miniaturization and creating progressive and more technologically advanced machines.

"Miniaturization is important as machines need to become more nimble and maneuverable for smaller job sites," explains Josh Nickell, director of global strategy, Point of Rental. "Redevelopment is done in tighter quarters than new development and smaller versions of large machines are able to take care of business in places the large machines can't. Smaller equipment is also easier to transport and use fewer resources."

Further, he says that technology advancements in machines can take complex tasks and turn them into simple and safe ones and can take repetitive and uninteresting tasks and automate them. This ultimately frees up employees for work elsewhere on the site or can reduce the number of people needed overall.

### What to consider before your next purchase

When it comes time to make the decision to either rent or buy construction equipment, there are a number of factors that come into play. Barden of Ditch Witch explains that the most obvious difference is the financial implication of owning vs. renting equipment.

"Owning equipment comes with maintenance costs and tax implications, as well as insurance costs," he says. "If the

equipment will be used for a short-term project or infrequently, it may make sense to rent a machine and utilize your capital in other areas for growth."

Another difference is the job flexibility of a rental unit. Construction companies will be able to find new opportunities and flexibility in jobs with the ability to rent different units instead of having one machine for every job.

"By renting equipment, you and your crew will have the ability to upsize or downsize equipment based on the need of each job site and project," adds Barden.

For many construction companies, the decision to rent or buy depends on the type of construction equipment that is going to be used on projects.

Barden suggests that equipment such as walk-behind trencher or mini skid steers are great to include within a rental fleet because it offers contractors the opportunity to use the machine for its niche use without having to capitalize a purchase. He adds that larger horsepower trenchers and directional drills are sometimes purchased on a rent-to-own contract, as it allows a construction company the opportunity to build equity into the purchase of a piece of equipment.

Greg Wolfe, director of training, Ditch Witch, adds that many rental operators and landscape operators are turning to mini skid steer machines for use on a variety of landscape and irrigation jobs. "Advancements in today's units have improved maneuverability to support smaller and tighter spaces, job site visibility and power."

In the end, new technologies are making renting construction equipment a more appealing option — and this trend could continue to pick up steam in the years ahead.

Nickell of Point of Rental adds, "While machinery becoming more autonomous makes it easier to operate, it increases the complexity of maintenance and repair process. Letting rental companies manage maintenance reduces the need to increase the amount of training for your own mechanics and it reduces downtime when a replacement is needed."

For construction companies, the decision to rent or buy ultimately comes down to needs on a project, but the technology is beginning to factor into the decision making process. ■



# Cat® M Series wheel loader (950 - 982m) product updates

The 2019 product update package for Cat® M Series medium wheel loaders (950M - 982M) includes technology advances that provide lower operating costs via extended service intervals; enhanced operator comfort with new seats and suspensions; emissions

control strategies to meet EU Stage V standards (EU only); added machine configurations (982M Forestry Machine and 982M High Lift); expanded productivity measurement tools; remote software update capability; and refinements in ground engaging tool and coupler

systems. Periodic updates allow Caterpillar to bring new and improved features to market more quickly and more frequently than do conventional New Product Introduction (NPI) cycles.

## Extended service intervals, emissions control

U.S. EPA Tier 4 Final and

EU Stage V models save maintenance costs by extending engine oil, engine oil filter and hydraulic oil filter change intervals from 500 hours up to 1,000 hours. Based on estimated comparisons of total engine and hydraulic fluids, filters and sampling costs during

a 6,000-hour period, costs can be potentially reduced by 16 to 23 percent. (For Tier 3 equivalent models, extended intervals apply only to hydraulic filters.)

In addition, several fuel and engine oil filters are being converted from spin-on to cartridge-type. Bene-

fits of cartridge-type filters include fewer parts to replace at servicing (housing is retained), easier disposal of used elements and less costly replacement parts.

## Next Generation seats and suspensions

The “next generation” of seats and suspensions offers three trim levels – comfort, deluxe and premium plus – and feature high-visibility seat-adjustment controls as well as ride stiffness adjustments. A new “break-through” suspension for deluxe and premium plus trim levels increases dampening at the top and bottom of seat travel, providing additional suspension stability and avoiding hard stops at travel limits.

The ride stiffness of the seat suspension is adjustable to different settings, allowing operators to tailor seat dampening to individual preferences and to the application. This feature was previously included only with EH steering (joystick and wheel), but with the 2019 product update, it is now included with HMU steering wheel units with deluxe and premium plus seats.

## Payload management

The Cat Advanced Productivity application is a web-based tool used to visualize machine production-related data and complements Cat PAYLOAD, Cat Production Measurement 2.0. The tool is accessed from VisionLink™ and includes a user-customizable report dashboard, cycle-by-cycle downloadable data and a list of features for truck and material identification lists.

Other key features include a new user interface (mobile friendly), time series data, multiple asset comparison, fleet or individual asset key-process-indicator target settings and support for multiple machine types. Requirements for use include cellular Product Link™, Advanced Productivity subscription and authorized User ID.

Remote flash support allows the dealer to push software update files to the customer's machine and authorizes the user to initiate installation via the dealer service portal. Any authorized user with CWS (Caterpillar Corporate Web



The 2019 product update package for Cat® M Series medium wheel loaders (950M – 982M) includes technology advances.

Photos courtesy of Cat®

# HOGZILLA®

## TUB & HORIZONTAL GRINDERS - DIESEL & ELECTRIC POWER OPTIONS

HogZilla Grinders are built **Extra-Heavy Duty** from mid-sized to **MASSIVE**.

20 Standard models currently available with multiple options.

- Mounted Grapple
- Track Mounted
- Tire Processing
- Fifth-Wheel Portable & Stationary
- Ask about other options

Model TC-1664SE  
Stationary Electric Shown

We Build Your HogZilla How You Want It. It's That Simple.

Call for Additional Info or a Quote! 800.743.3491

Ph: 785.284.3454 Fax: 785.284.3601 Email: hogzilla@cwmill.com

Scan to Watch TC Electric Video!

HOGZILLA.com



Security ID) and a mobile device can initiate flash, which occurs in 30 minutes from initiation to completion. This service is provided at no cost to dealer for machines for machines with cellular Product Link (standard on current 950 - 982 medium wheel loaders except the 950 GC) with remote-flash-compatible software. CWS authorization and mobile device required to initiate.

#### New 982M configurations

New configurations in the medium wheel loader lineup include the 982M Forestry Machine and the 982M High Lift. The new 982M Forestry Machine (logger) is capable of lifting 28,000 lbs (12,700 kg) with a pin-on mill yard grapple. Changes from the standard 982M include a larger tilt cylinder, upgraded rear frame and heavier counterweight. Third party logging grapples and woodchip buckets are available.

The 982M High Lift, compared with the standard lift version, increases dump clearance under the bucket pin from 15 feet 6 inches, to 16 feet 10 inches (4,743 to 5,143 mm). Configuration changes from the standard 982M include a new lift arm, new tilt cylinder, new tilt link and the counterweight from the 982M Aggregate Handler.

#### Advansys GET

The Advansys ground-engaging-tool system included in the product update is a Cat tip system designed with exclusive performance features that result in less drag and higher productivity. The new tip shapes place wear-resistant material in the most vulnerable areas, resulting in significantly longer service life. A stronger adapter nose results in up to 50 percent less stress, and

improved adapter-nose geometry reduces sliding wear on adapter surfaces. The improved tip shapes shadow the adapter straps and welds for longer adapter life. New 980M/982M buckets are released with weld on adapters; 950M - 982M bolt-on adapters are interchangeable with the former J and K Series.

#### Additional updates

Among the package of updates for medium wheel loaders is a new universal

coupler for models 966M - 972M. The new coupler eliminates width interference with multiple tools and a reduced offset increases breakout force by 4 percent.

New LED and halogen work and roading light packages increase safety when working in dark conditions. Handrail high visibility films enhance awareness of handrail locations and are available from your Caterpillar dealership. ■



*The ride stiffness of the seat suspension is adjustable to different settings, allowing operators to tailor seat dampening to individual preferences and to the application.*



*Based on estimated comparisons of total engine and hydraulic fluids, filters, and sampling costs during a 6,000-hour period, costs can be potentially reduced by 16 to 23 percent.*



**Stocking Equipment Dealer**  
Yemassee, SC 29902  
**843-525-6140**  
**sales@sandscience.com**  
**www.sandscience.com**



61 Silva Lane, Dracut, MA 01826  
**978-454-3320**  
**gilda@equipmenteast.com**  
**www.equipmenteast.com**

1474 Route 3A, Bow, NH 03304  
**603-410-5540**



1772 Corn Rd., Smyrna, GA 30080  
**770-433-2670**  
**sales@grindercrusherscreen.com**  
**grindercrusherscreen.com**



2351 Woodcrest Drive, Winter Park, FL 32792  
**407-468-6437**  
**diversifiedecological@gmail.com**  
**diversifiedecological.com**

**Ed's Equipment, Inc.**  
4567 East 71st, Cleveland, OH 44105  
**330-620-9993**  
**ed@edsequipmentinc.com**

**Keestrack USA Parts**  
Phone: +1 940-482-4004  
Mob: +1 940-600-2034  
Fax: +1 940-482-3005

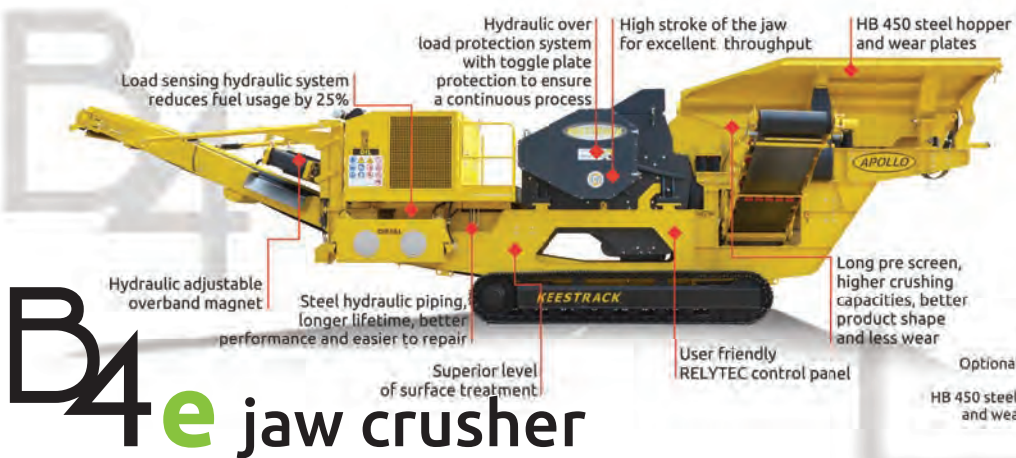


Performance in every detail



Mobile crushing & screening  
24/7 Remote monitoring  
Fuel efficient & hybrid systems  
Minimum cost of ownership

Contact your nearest Keestrack dealer for more details



www.keestrack.com





# High capacity eucalyptus and acacia bark processing

Multiple rotary de-barking lines create large volumes of bark and wood waste at capacities up to 350 cubic meters per hour. Existing wood waste machinery could not keep up with the volume and was prone to plug-up and high maintenance. On top of that – it was important to configure a system that would easily integrate with existing machinery, provide metal detection with non-stop bypass and improve fuel quality.

## The solution

WSM (West Salem Machinery) suggests their high capacity 5472 bark crusher with interchangeable tooling package and special high-flow screen grates, combined with WSM engineering services to assist in overall layout and supply of conveying machinery to ensure proper infeed and discharge to the bark crusher and allow for easy integration into the existing process.

## The benefits

- Confirmed production rates with ability to handle surge conditions
- New tooling package delivers 50 percent more through-put
- Increased fuel bulk density by approximately 15 percent

- Higher up-time – ability to schedule maintenance and lower cost per ton of production

## Difficult feedstock requires a new and better solution

High capacity bark processing: Large pulp and paper mills have often struggled with difficult and stringy barks. A customer came to WSM in 2018 to help them solve a new challenge – eucalyptus bark. Having made the decision to switch from acacia to eucalyptus fiber for the paper making process, they quickly found that the eucalyptus bark was proving more difficult to process due to its more fibrous and stringy characteristics. Specifically, two major issues needed to be solved: 1) processing capacity was down as the residency time for the eucalyptus bark in the grinder had increased, and 2) bulk density of the resulting fuel product was lower compared to acacia bark, causing a problem with their power boiler.

Once again, WSM engineers took on the challenge. The customer sent a sample of eucalyptus bark to WSM for testing at their test center in Salem, OR. After a full day of testing and analysis, WSM engineers started working

on a solution.

## WSM engineers accept the challenge

To increase cutting action, WSM designed a brand new, heavy-duty hybrid hammer body that could be installed on the customer's existing rotor.

The talented engineering team at WSM set out to design an all-new tooling package for the customer's eucalyptus shredding application. Their goal was to increase the cutting action of the hammers while allowing shredded fiber to exit the machine more quickly.

WSM expedited the engineering and production of the new tooling package for the customer, knowing that they needed a solution quickly in order to keep their power boiler running.

## Onsite testing in Indonesia and results

WSM sent its lead engineer to Indonesia to be onsite for the tooling modification and testing process. Along with the newly designed hammers, two different sizing options utilizing the new screen design were trialed in various combinations until the desired end product sizing was achieved and the customer was satisfied with the result.

Using the new tooling package resulted in a production capacity increase of approximately 50 percent and increased shredded bark density by approximately 15 percent compared to the original tooling.

## Put WSM's testing facility to work for you

At WSM's size reduction and screening test facility in Salem, OR, customers and prospective customers can have feedstock tested. The testing and refining of processes (and sometimes equipment) often result in improving the customers' operations or helping them make informed and confident machine purchases.

Whether your business involves green or dry wood fiber preparation, biomass fuel preparation, fiber prep for pellets, briquettes or co-firing, converting ag-residuals for biofuels, mulch processing, animal



WSM's (West Salem Machinery) suggested their high capacity 5472 bark crusher with interchangeable tooling package after testing a sample of the eucalyptus bark at the testing facility.

bedding or other fine-grind materials – WSM's lab can simulate various size production settings and volumes as well as provide detailed screen analysis. Depending on the amount of detail required, WSM can supply complete reporting, including sieve analysis and energy usage.

The test facility is equipped with a horizontal grinder, primary shredder, high-speed hammermill, full air discharge capabilities, disc screen, oscillating screen and screening equipment for sieve analysis. One of its key features is a variable frequency drive system, allowing machines to be run at different speeds to simulate differ-

ent operating conditions.

WSM invites those interested to come see the testing in person and tour the plant or they will film the test. Either way, you'll get WSM's expert analysis and recommendations on the type and size of equipment that will get the results you need.

With the most complete line of mill-duty grinding and screening equipment on the market and the most experienced team in the business, you can be certain you're making the right choice for your business. Contact the experts at WSM at 800.722.3530, [www.westsalem.com](http://www.westsalem.com) or [info@westsalem.com](mailto:info@westsalem.com).



The test facility is equipped with a horizontal grinder, primary shredder, high-speed hammermill, full air discharge capabilities, disc screen, oscillating screen and screening equipment for sieve analysis.

Photos courtesy of WSM





## Telsmith Vibro-King TL™ vibrating screen custom built, low cost, high performance

MEQUON, WI – Telsmith Inc., manufacturer of mineral processing equipment, offers their custom built, high performance Vibro-King TL™ vibrating screen to the aggregate and mining industry.

The Vibro-King TL™ offers single, double, triple and four deck models ranging from 5x14 ft to 8x24 ft screen size. These screens come in portable plant and stationary configurations and are ideal for 24-hour mining operations, heavy-duty aggregate processing and sizing and for recycling asphalt and concrete products.

Vibro-King TL™ screens are reliable and low maintenance inclined screens for the mining and aggregates industries. Modern screen media takes many forms and is critical to achieving optimum performance, so Telsmith builds each

screen around the media selected for the application. With safety and uptime engineered into them, each deck can be custom selected for a different media type.

Telsmith designs deck frames specifically for performance and endurance with each media type including side tension wire cloth, urethane or rubber, modular urethane or rubber panels, punch plate or steel backed rubber.

The TL Never-Wear™ sealing system eliminates the need for contact lip seals. Large shaft casing provides increased oil volumes. A snap-in, urethane labyrinth seal keeps dust out and eliminates the downtime and expense of repairing worn seals or shaft grooves.

The Telsmith modular approach with 110mm, 130mm and 160mm bearing vibrator mechanisms is available in

single and dual shaft assemblies, allowing outstanding flexibility and range. The new Vibro-King TL™ screen design creates outstanding performance and longevity for heavy-duty scalping of coarse stone, fine sizing of finished products and wet or dry processing. The Vibro-King TL™ is feature-packed and built to deliver low cost performance.

*The Vibro-King TL™ offers single, double, triple and four deck models ranging from 5x14 ft to 8x24 ft screen size.*

*Photo courtesy of Telsmith*



## Telsmith to showcase Hydra-jaw® jaw crusher at bauma 2019

MEQUON, WI – Telsmith Inc. will exhibit at the 2019 bauma Expo in Munich, Germany, in conjunction with Astec Aggregates and Mining Group from April 8 - 14, at hall/booth FS.1109/4.

"We're excited to exhibit at bauma 2019 with our family of Astec companies," commented Jeff Gray, vice president of sales and marketing, Telsmith Inc., "This is a wonderful opportunity to show the breadth and depth of Astec, meet with our overseas customers and create new relationships."

Telsmith will display their Hydra-Jaw® H2238 jaw crusher model that offers throughput capacities from 100 - 155 stph through 220 - 370 stph, which is ideal for processing applications such as aggregates, mining and recycling, and is available in three configurations – stationary, track and wheeled portable plants. The H2238 is part of Telsmith's main line of Hydra-Jaw® crushers.

Hydra-Jaw® crushers offer the innovative toggle tensioning system which saves time and costs by eliminating the need to adjust springs when changing the setting. Quick to assemble and reliable in operation, the assembly requires no special tools or maintenance allowing for consistent reliable crushing.

The core of the Telsmith hydraulic toggle system is the robust Hydra-Jaw® hydraulic cylinder. Custom built specifically for the crushing environment, the cylinder incorporates a large piston for high crushing forces and an oversized rod for stability and strength. The unique bushing and seal are designed to hold up to the rigors of constant crushing in a dusty environment to deliver long service life with minimal maintenance.

Telsmith engineers safety into every product. Following a power failure or emergency stop, Telsmith's unique hydraulic chamber clearing system allows the crusher to start up in as little as 15 minutes. Through push button controls, hydraulics crush any stone that remains in the chamber, preventing oversized material from passing onto the product belt. Your workers stay safe – no digging out the crusher or clearing off the belt, and the plant starts back up as if nothing had happened. ■



### Sales • Service • Rentals Replacement Parts

**EQUIPMENT SPOTLIGHT**

[Click Here For More Details](#)



**McCloskey I54 Impact Crusher**

**2013 McCLOSKEY I54 Impact Crusher**  
3,465 Hrs, CAT C13 Engine, 47"x53" Fourbar impactor chamber, Stock# MCC143RR  
(2 Units Available)

[Click Here For More Details](#)



**2016 McCloskey 36x80W Stacking Conveyor**  
Designed for high-capacity stockpiling operations (variety of sizes and options in stock), 1,107 Hrs, Stock#MCC115RR

[Click Here For More Details](#)



**2009 McCloskey J50 Jaw Crusher** (2 Avail.)  
CAT Engine, high efficiency diesel hydraulic system allows higher throughput, Stock#MCC544RR

[Click Here For More Details](#)



**2015 McCloskey S130 3 Deck Screen** (5 Avail.)  
High Energy 14x5 Screenbox, 2,408 Hrs, Stock#MCC188RR

[Click Here For More Details](#)



**2015 McCloskey R105 Scalping Screen** (4 Avail.)  
High Energy 4.5'x12' Screenbox with 10mm throw provides the most aggressive screening action in its class; compact transport size, 2,268 Hrs, Stock#MCC219RR

[Click Here For More Details](#)



**1996 Re-Tech 720 Trommel Screen**  
5th wheel; new main hydraulic pump; 1/2" screen, good condition, John Deere Engine, can be seen in operation 5,500 hrs., Stock #CE338RR

[Click Here For More Details](#)



**2013 Cemco AEV 80 VSI**  
Anvil and shoe set up Stock #CE104RR

[Click Here For More Details](#)



**2012 Terex Finlay 1175 Jaw Crusher**  
Scania 9.3 Engine, 3,564 hrs, Stock #CE349RR

[Click Here For More Details](#)



**2015 McCloskey 621RE Trommel**  
(3 Avail.) Suited for large, heavy duty applications. 2,003 hrs. Stock #MCC125RR

All Equipment Subject to Availability.



## Toll-Free 877-217-4474

commonwealthequipment.com







## *Push-to-talk voice messaging service unveils emergency alerts feature*

Zello, a push-to-talk voice messaging service that enables communication and collaboration for workers, teams and communities, recently announced the launch of Emergency Alerts — its new “panic button” feature. ZelloWork users in crisis situations can now simply press a button to send (with high priority) both their location and an audio recording to a designated emergency channel. Doing so immediately shares the nature and details of the emergency to all parties who should know and can then respond accordingly.

Emergency Alerts keeps customers’ employees safe, informed and connected. This add-on feature is available to ZelloWork users for an additional fee per month, per user and is especially powerful for businesses with lone workers, remote workers and/or field workers. Through mass communication and geolocation sharing, employees can quickly respond to and resolve crises and emergencies.

Here’s how it works: Workers in distress press the Emergency Alerts button, which is accessible via the Zello app’s talk screen or on supported devices with a red alert button. Once the button is pressed, Zello automatically:

- Records and sends a message to the emergency channel
- Sends the user’s location to the emergency channel
- Gives emergency messages priority over other messages until the crisis ends

Once the initiator of the emergency is no longer in distress, they can dismiss the emergency alert. Everything that occurs on the app during an emergency is recorded, providing a valuable record of the event that transpired.

“Workers in multiple industries around the globe use Zello to communicate live through voice over their smart devices to

solve problems and connect in emergencies,” said Bill Moore, Zello CEO. “Our new emergency feature takes that communication a step further, instantly connecting workers when they need it most — in an emergency.”

Push-to-talk capabilities are critical to workers who don’t sit at desks — those who work out in the field, spend time driving or work on the manufacturing floor. These workers are sometimes in dangerous conditions and sometimes work alone. The responsibility falls on employers to keep their workers safe and provide them with a means to communicate in emergency situations.

“Zello’s new feature is easy to use (though we hope to never have to) and gives our workers and clients tremendous peace of mind,” says Steve Knowler, IT manager, Global Security. “When necessary, our security guards can easily send an emergency alert which shares both their location and records ambient audio so they can easily get help from other guards nearby.”

The Emergency Alerts feature is especially relevant for businesses if:

- Workers are dispersed, work in dangerous conditions or work alone.
- Team members require an efficient method of notifying everyone about the nature and location of an emergency.
- Emergency communication tools need to work in critical conditions — as when power lines fail and only low bandwidth (2G) data networks or WiFi are available.
- You need a special group of people to instantly receive notifications when anyone on your team has an emergency.
- You want to give your team members peace of mind, no matter where they’re located.

## *Volvo CE appoints Scott Young to vice president uptime and customer support for sales region Americas*

Volvo Construction Equipment (Volvo CE) has appointed Scott Young to be vice president uptime and customer support for sales region Americas. The appointment becomes effective June 1, but the transition to the new position has already started.

Young will support both North and Latin America teams on developing and implementing projects and strategic plans aiming to increase machine uptime and customer support, including further developments of Volvo CE’s telematics program, ActiveCare Direct. He and his team will work together with Volvo CE’s dealer network to support the implementation of new technologies and new business models.

Previously based in Eskilstuna, Sweden, Young will now work from the Shippensburg, PA-office, reporting to President Sales Region Americas Stephen Roy.

“We are very excited to have Scott Young joining our Americas team,” Roy said. “His extensive experience in the development of innovative solutions that boost efficiency on the job site and promote customer uptime will help us advance our customer support activities in the Americas, and enhance our strategy to provide the highest machine uptime in the industry.”

Young started working for Volvo CE in 2008. For the last few years, he has been directly involved in the company’s projects that developed and implemented new technologies, such as for electric and autonomous machines. In his most recent role as director of electromobility and automation, he led Volvo CE’s programs to develop technologies related to electromobility and automation, including technologies demonstrated in the company’s

successful electric site project as well as the recent announcement on electric compact machines. He has also held roles as electromobility program manager, director of strategy and district business manager.

“I’m energized to join the Americas team and look forward to helping our customers in North and Latin America maximize uptime to improve their performance and return on investment,” Young said. “With the advancement of new technologies we are in a very exciting time in our industry and I’m eager to support our dealers to deliver efficiency, profitability and customer satisfaction.”

Young holds a degree in civil engineering from the South Dakota School of Mines and Technology, and an Executive MBA from the University of Illinois. ■



### **Aggcorp Equipment Systems**

22800 Lakeland Blvd., Euclid OH 44132

**216-732-8992**

info@aggcorp.net,  
smcivor@aggcorp.net  
www.aggcorp.net



### **Emerald Equipment Systems**

7600 Morgan Rd., Liverpool NY 13090

**315-437-1977**

sales@emeraldscreening.com  
www.emeraldscreening.com



### **Powerscreen Crushing & Screening LLC**

11901 Westport Rd., Louisville KY 40245

**502-320-9300**

justin@powerscreensales.com  
www.powerscreensales.com



### **Powerscreen of Florida, Inc**

5125 North Frontage Rd., Lakeland FL 33810

**863-687-7153**

sales@powerscreenfla.com  
www.powerscreenfla.com



### **Powerscreen Mid-Atlantic Inc**

715 Indeneer Dr, Kernersville NC 27284

**(800) PWR-SCRN**

sales@powerscreenmidatl.com  
www.powerscreenmidatl.com






# COBRA 290

## IMPACT CRUSHER



The Cobra 290 Impact Crusher is a machine that provides class leading productivity, unmatched versatility and excellent fuel efficiency. The quick set up times, simple intuitive operation and ease of transport makes this machine an ideal solution for all applications.

**2**  
**INDEPENDENT  
HYDRAULIC  
APRONS**

  
**ENGINE POWER**  
Tier 3 – 235kW / 315Hp  
Tier 4 – 235kW / 315Hp

**UP TO**  
**290**  
**TONNES PER  
HOUR**  
(320 US tonnes)

For more information please visit: [terex.com/evoquip/cobra290](https://terex.com/evoquip/cobra290)  
or **Tel:** +442887718500 **Email:** [evoquip@terex.com](mailto:evoquip@terex.com)



[terex.com/EvoQuip](https://terex.com/EvoQuip)





After drop-off, pallets and offcuts need to be sorted and transported around the site so that they can be repaired and reused or recycled in the form of mulch or fine animal bedding.

Photos courtesy of SDLG

### SDLG LG946L wheel loaders aid Australian company's timber-recycling operations

A couple of SDLG LG946L units are impressive as the latest wheel loader purchases for Direct Pallets & Recycling. Apart from cost savings, they have also delivered simple and reliable performance — handling timber pallets, timber offcuts and recycled timber products, such as mulch, for the company.

Australian recycling company Direct Pallets & Recycling receives trucks each day that drop off timber pallets and timber offcuts at its 10,000 m<sup>2</sup> facility in New South Wales. After drop-off, these pallets and offcuts need to be sorted and transported around the site so that they can be repaired and reused or recycled in the form of mulch or fine animal bedding.

Direct Pallets & Recycling has tasked a pair of SDLG LG946L wheel loaders with handling the pallets and offcuts, as well as the associated products that they are recycled into. Having previously used premium loaders for these same tasks, the SDLG units have proven more cost-effective and easier to use, according to the company.

"The tasks we have onsite require fairly basic technology. The high-end features of premium machines lead to an added expense that we don't need. These added features have the potential to cost us downtime, too, if they malfunction. As such, the LG946L units are great additions to our fleet because of their simplicity, value and reliability," said Rob James, owner of Direct Pallets & Recycling.

The first LG946L unit was acquired in February 2017, with its value and performance convincing the company to buy a second loader eight months later. For six hours each day, both wheel loaders alternate their time between various tasks, both inside and outside of a factory at the facility. Their tasks include stacking dropped-off pallets and offcuts into

stockpiles, conveying pallets and offcuts from the stockpiles to shredders and loading mulch onto trucks.

The LG946L units are fitted with high-roll buckets, and this extra reach is especially useful when loading mulch onto trucks with high sides. Despite handling hundreds of metric tons of material per day, the wheel loaders have presented few issues.

"Our local dealer, CJD Equipment, is quick to service the machines, although issues are very few and even then, minor," James said.

The ability of CJD Equipment to provide swift service response is in part due to its proximity to Direct Pallets & Recycling. With 20 offices around Australia, two of which are in New South Wales, CJD Equipment boasts an extensive reach across the country. It is through partners around the world, such as CJD Equipment, that SDLG ensures customer satisfaction with its machines.

"If there's an issue, they ring me or the service team up. First, we try to help them over the phone. If it's something that can't be resolved over the phone, then we visit the site to investigate the matter further. Being as local as we are, we can arrive at a customer's site really quickly," said Terry Dransfield, business development manager at CJD Equipment.

With 25 years of experience in the recycling business, Direct Pallets & Recycling has certainly shown it recognizes a good value proposition when it sees one. ■



ALG946L uses a specialized attachment to push pallet offcuts up and onto the stockpile.



Their tasks include conveying pallets and offcuts from the stockpiles to shredders.



A WIRTGEN GROUP COMPANY



# THE EVOLUTION OF INNOVATION.

THE EVO-LINE FROM KLEEMANN



**EVO**

**IT'S ALL ABOUT EVOLUTION.** The demands placed on plants in the contracting sector are high: maximum output matched with cost-effective operation – and all for the most diverse applications. This is exactly what distinguishes KLEEMANN EVO-Line plants. Thanks to highly innovative solutions, such as an advanced material flow concept, continuous feed system, outstanding safety concepts and many more, KLEEMANN's EVO-Line mobile jaw crushers, impact crushers and cone crushers deliver a solid plus in performance, efficiency and versatility. Progress calls for real innovation – the KLEEMANN EVO-Line.

► [www.wirtgen-group.com/america](http://www.wirtgen-group.com/america)

**WIRTGEN AMERICA, INC.** · 6030 Dana Way · Antioch, TN 37013 · Telephone: 615-501-0600

1001 Lehigh Station Road  
Henrietta, NY 14467  
585-334-3867 • 866-683-5338  
serb@monroetractor.com  
monroetractor.com

6 Equipment Dr., Binghamton, NY 13904  
607-754-6570 • 866-321-4277  
serb@monroetractor.com

5035 Genessee St, Buffalo, NY 14225  
716-681-7100 • 800-834-9606  
bklementowki@monroetractor.com

8194 State Route 415,  
Campbell, NY 14821  
607-739-8741 • 800-866-8912  
kbower@monroetractor.com

7300 Eastman Rd,  
N. Syracuse, NY 13212  
315-452-0000 • 800-287-5286  
mwisniewki@monroetractor.com



**MONROE TRACTOR**  
— we keep you working —



# ROCKSTER R1100DS – A powerful mobile impact crusher with state-of-the-art emission technology

Since its founding in 2004, ROCKSTER has developed two patented systems for mobile crushers. This month, during BAUMA, the mobile impact crusher R1100DS will be displayed. The machine combines both patented innovative systems (DUPLEX and double-functional return/stockpile belt) and as of 2019 it will be equipped with a CAT C9.3B EUR5 engine. This will offer customers the latest state-of-the-art technology.

Wolfgang Kormann, CEO of ROCKSTER, emphasized, "When choosing our drive concept, we consider the performance-optimized consumption, which can be distinguished from conventional drive types (time consumption). Our experience has shown over the years that with our variable drive system, the consumption optimization can be up to 13 percent. This is another step how the use of the latest technology contributes toward the future with reduced emissions. We have chosen [the] CAT Stage V engine in order to reduce fuel consumption, as well as optimize after-treatment of the exhaust gases."

Another new development presented for the first time at the BAUMA is a "Machine Monitoring System (MMS)," which will be available for all mobile crushers beginning in 2019. ROCKSTER customers can query any time, from anywhere, via smartphone, tablet or notebook the relevant or selected information about their machine. The MMS also offers the possibility of remote maintenance, which minimizes any possible downtime. It is controlled by a multifunction color display with scratch-resistant touch user interface.

Also displayed, the mobile two-deck scalping screen RSS410 offers the longest screenbox in the compact screening segment and can be used either as an individual machine or to produce three final grain sizes. It can be utilized as a pre-screen before the crusher for the production of two additional defined grains, or as a final screening unit after the crusher to separate the crushed product into three final grains. In addition to the efficient separation of natural stone and building materials, the RSS410 can be used for the separation of coal, metal and topsoil as well. Beside various scalping screens, ROCKSTER also has in its product line tracked mobile two- or three-deck finishing screens and track-mounted or wheeled trommel screens. Engines from Stage IIIa to Stage V are available for these machines.

To complement the impact crusher and the scalping screen, ROCKSTER is also exhibiting the track-mounted stacker RST18 with a belt length of 18.2 m. It is available

in four different lengths, from 15 to 30 meters, and can be obtained with Stage IIIa to Stage V engines. The use of the stacker makes it possible to increase daily production

capacity while at the same time reduce material handling costs. As a result, the return of investment may be achieved within six months. ■



The impact crusher R900 with Duplex System together with the stacker RST18 at the processing of concrete.

Photos courtesy of ROCKSTER



The new multifunction color display with touch user interface.



The ROCKSTER RSS410 2-deck scalping screen at the separation of topsoil.



# Bandit Builds Your Bottom Line.



## You Deserve the Best.

From our most compact stump grinders and hand-fed chippers through our largest whole tree chippers and The Beast® recyclers, Bandit® equipment is built to make you money.

We reduce your costs by maximizing fuel efficiency and reducing downtime. And we increase your income by producing the highest quality end product for your market.

Bandit builds the best hand-fed chippers, stump grinders, whole tree chippers, The Beast recyclers, track carriers and skid steer attachments in the industry. And equally as important... Bandit Builds Your Bottom Line.



**Bandit**  
INDUSTRIES, INC.

www.banditchippers.com | 1.800.952.0178 | Remus, MI - USA

**VISIT YOUR NEAREST AUTHORIZED DEALER LOCATION**

### CLEAVES CO. INC.

300 Reservoir St.  
Needham, MA 02494  
781-449-0833

lenny.cleaves@cleavesco.com  
www.cleavesco.com

### ROBERT H. FINKE & SONS INC.

1569 U.S. Rt 9W  
Selkirk, NY 12158  
518-767-9331

dfiacco@finkeequipment.com  
www.finkeequipment.com

### BOBCAT OF SARATOGA

1279 Rt 9  
Gansevoort, NY 12831  
518-798-9283

dfiacco@finkeequipment.com  
www.bobcatofsaratoga.com





To Place A Classified Ad Phone 1 (800) 836-2888 • Fax (518) 673-2381 • E-mail: [classified@leepub.com](mailto:classified@leepub.com)

RRR Mailing Address Classifieds,  
PO Box 121, Palatine Bridge, NY 13428

#### Number / Classification

- 20 Air Compressors
- 25 Air Tools
- 35 Announcements
- 45 Antiques
- 55 Appraisal Services
- 60 Asphalt Equipment
- 70 Attachments
- 80 Auctions
- 85 Backhoe/Loaders
- 135 Bits
- 150 Buckets
- 155 Building Materials/Supplies
- 157 Building Repair
- 160 Buildings For Sale
- 165 Business Opportunities
- 190 Chain Saws
- 200 Chippers
- 220 Compaction Equipment
- 225 Composting Equipment
- 230 Compressors
- 240 Concrete Mobile Mixers
- 245 Concrete Products
- 255 Construction Demolition
- 265 Construction Eq. For Rent
- 270 Construction Eq. For Sale
- 275 Construction Machinery Wanted
- 277 Construction Services
- 278 Construction Subcontracting
- 280 Construction Supplies
- 300 Conveyors
- 310 Cranes
- 320 Crushing Equipment
- 375 Dozers
- 400 Drills
- 415 Employment Wanted
- 425 Engines
- 430 Excavators
- 470 Financial Services
- 494 For Lease
- 495 For Rent
- 505 Forklifts
- 535 Generators
- 550 Gradalls
- 555 Graders
- 610 Help Wanted
- 635 Hoists
- 705 Legal Notices
- 745 Loaders
- 760 Lumber & Wood Products
- 780 Maintenance & Repair
- 800 Mine Equipment
- 805 Miscellaneous
- 880 Parts
- 885 Parts & Repair
- 890 Pavers
- 925 Pressure Washers
- 950 Real Estate For Sale
- 955 Real Estate Wanted
- 975 Rentals
- 997 Safety Equipment
- 1017 Scrapers
- 1020 Screening Equipment
- 1040 Services Offered
- 1085 Snowplows
- 1097 Sprayers
- 1105 Sweepers
- 1120 Tools
- 1130 Tractors
- 1140 Trailers
- 1145 Training
- 1170 Truck Parts & Equipment
- 1175 Trucking
- 1180 Trucks
- 1205 Wanted

#### Announcements

## ADVERTISING DEADLINE

Thursday, April 18, 2019

For as little as \$10.00 - place a classified ad in

### Rock Road Recycle

Call Peg at **1-800-836-2888**

or **518-673-0111**

or email [classified@leepub.com](mailto:classified@leepub.com)

## 33rd ANNUAL HARD HAT EXPO

Located in the  
**NEW EXPO CENTER**  
**NYS FAIRGROUNDS**  
581 State Fair Blvd  
Syracuse, New York 13209

**APRIL 3 - 4, 2019**

**Wednesday 8 AM - 4PM**

**Thursday 8 AM - 3 PM**

**www.hardhatexpo.com**  
**800-218-5586**

Hard Hat Expo Produced by the  
Trade Show Division of Lee Newspapers, Inc.  
Sponsored by: [www.rockroadrecycle.com](http://www.rockroadrecycle.com)

#### Announcements

**CHECK YOUR AD - ADVERTISERS** should check their ads on the first week of insertion. Lee Newspapers shall not be liable for typographical, or errors in publication except to the extent of the cost of the first weeks insertion of the ad, and shall also not be liable for damages due to failure to publish an ad. Adjustment for errors is limited to the cost of that portion of the ad wherein the error occurred. **Report any errors to Peg Patrei at 518-673-0111 or 800-836-2888.**

#### ★ ★ ★ ★ ★ ADVERTISERS

Get the best responses from your advertisements by including the age, condition, price and best calling hours. Also, we always recommend insertion for at least 2 issues for maximum benefits. **Call Peg at 1-800-836-2888**

#### Building Materials/Supplies

INSULATION: 1/2" to 4" 4x8 sheets foam insulation. Large quantities available. Discount Pricing. James Weaver, 607-659-7409

#### Announcements

#### Buildings For Sale

## Professional Pole Barns

### by S&L Builders

*We build what we sell*  
**No Sub Crews**

**Booking 2019 Projects Now**

Any Size Or Description of Building  
Most Structures Erected Within 30 Days  
Beat Our Price? I Don't Think So!

**570-398-2234 Office**  
**570-660-6832 Cell**

[www.slbuildersllc.com](http://www.slbuildersllc.com) PA094334

#### Buildings For Sale

POLE BARN PACKAGES, metal roofing & siding. Great prices! Homeowners & contractors welcome. All pole barn packages include detailed plans and drawings. Mountain-top Enterprises, 2726 State Hwy. 7, Bainbridge, NY 607-967-4877 [www.metalroofingandmetalsiding.com](http://www.metalroofingandmetalsiding.com)



#### Construction Equipment

**Couple Hundred** of dozers, skid loaders, backhoes. Several older trucks and cars. Screening plant, large excavator, parts machines, much more. 518-634-2310

#### Building Materials/Supplies

#1-40YR PAINTED STEEL, galvanized & galvalume, also #2 available w/all trim & accessories. Complete Building Packages. Before you buy call Mohawk Metal Sales, 315-853-ROOF(7663)



#### Building Materials/Supplies

#### Building Materials/Supplies

## D&J Supply LLC

**26 & 29 Ga. Metal Roofing & Siding**  
**Pre-Engineered Trusses**  
**Pole Barn Packages - Any Size**  
**~ Direct Shipments ~**

**Call Us for Your Building Needs**

**Located in Central New York**

**518-568-3562**

#### Buildings For Sale

#### Construction Equipment

IR COMPACTOR SD100, \$28,500; Cat dozer D6H LGP, 6241 hrs., \$65,000; D6D 3206 hrs., severe duty tracks at 60%, straight blade w/tilt & root rake blade, \$36,000; Bobcat 773 high flow hyd. GT bucket & forks, \$9,500; Bobcat S300 GP bucket & forks, \$21,000; Cat wheel loader, 922B, \$11,000; 1000 gallon fuel tank w/containment, \$1,400. Best offers. 585-721-0515



#### Custom Services

**BUSINESS CARDS: 1,000 for only \$60.00, full color glossy.** Give us your existing card or we will design one for you! **FREE SHIPPING** included. Call Lee Newspapers at 518-673-0101 or email [commercialprint@leepub.com](mailto:commercialprint@leepub.com)

#### Construction Machinery Wanted

#### Construction Machinery Wanted

## WANTED TO BUY

**Construction & Manufacturing Equipment**  
**ANY AGE OR CONDITION**

**CASH BUYER**  
**518-848-4669**

#### Construction Services

#### Construction Services



## Zimmerman Repair

**All types of AG and Construction Equipment Repair.**

**Penn Yan, New York**  
**315.536.6040**

#### Custom Services

#### Custom Services

## Nolt Welding and Machine

Drilling  
Threading  
Lathe Work  
Keyway Cutting  
CNC Machining



Tappings  
Welding  
Turnings  
Deburring  
Prototypes

**Marlin Nolt**  
**3329 Depew Road**  
**Canandaigua, NY 14424**

**Phone (585) 526-6004**  
**Fax (585) 526-6611**

**1-800-836-2888**



To Place A Classified Ad Phone 1 (800) 836-2888 • Fax (518) 673-2381 • E-mail: classified@leepub.com

HARD HAT NEWS CLASSIFIED SECTION

Mailing Address: Hard Hat News Classifieds, PO Box 121, Palatine Bridge, NY 13428

EnginesEngines



**Carl McQuillen**  
ENGINES INC

- Block & Cylinder Head Reconditioning
- Crank Shaft Grinding
- Shaft Repair
- Engine Kits

(585) 768-2322  
www.mcquillenengines.com  
8171 East Main Road Le Roy, NY 14482





FencingLumber & Wood Products

LOCUST POSTS, POLES, Split Rails, 6x6's, 4x4's, other hardwood boards and planks, custom cut. Also lots, land cleared, woodlots wanted. 518-883-8284.





WE WANT YOU to sell us your WOOD

We buy heart pine, fir, oak, & other species.

800-951-9663  
michele@pioneermillworks.com



GunsMiscellaneous

McCarthy Guns. 217 Erie Blvd. Canajoharie. 518-673-4867. www.mccarthyguns.com. We pay top dollar for guns. Buy, Sell, Trade.

BUSINESS CARD MAGNETS only \$75.00 for 250. Free Shipping. Call Lee Publications at 518-673-0101. Please allow 7-10 business days for delivery.

Help WantedHelp Wanted

Need to Hire Someone? Looking For Your Next Star Employee?

Check out the

ROCK ROAD RECYCLE

JOB BOARD

Go to

jobs.hardhat.com



Services OfferedTrailers

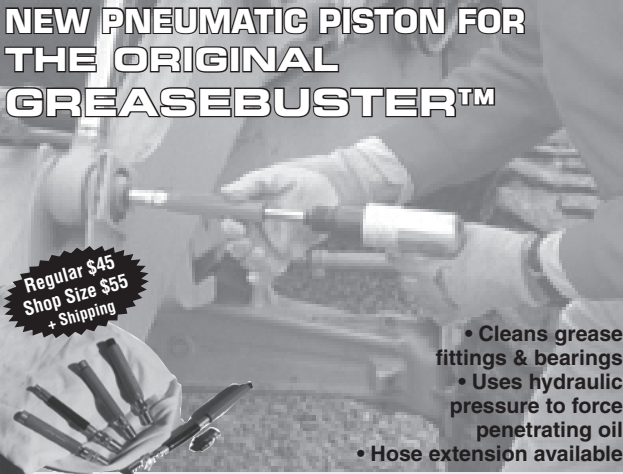
Corrugated Signs, Labels, Magnets, Business Cards, Rack Cards, Banners, Postcards, Flyers/Brochures, Business Forms, Non-Carbon Reproduction Forms (NCR), Signs, Pull-Up Banner Stands, Feather Banner Stands, Door Hangers, Envelopes, Invitations, Posters, Calendars, Self-Inking Stamps. *Call with your needs.* Lee Newspapers Inc. 518-673-0101 or commercialprint@leepub.com

SELF INKING STAMPS, \$23.00 + Shipping. All sizes. Call Lee Newspapers 518-673-0101 or email commercialprint@leepub.com



ToolsTools

NEW PNEUMATIC PISTON FOR THE ORIGINAL GREASEBUSTER™



Regular \$45 Shop Size \$55 + Shipping

- Cleans grease fittings & bearings
- Uses hydraulic pressure to force penetrating oil
- Hose extension available

Patented THESE TOOLS HAVE 25 YEARS EXPERIENCE


Grease Buster Tools

Made in the USA by a Farmer for a Farmer

PO Box 120 • Waynesville, OH 45068  
513-897-5142 (phone & fax)  
513-312-5779 (cell phone)  
www.greasebuster-tools.net

TrailersTrailers

SPECIAL OF THE WEEK



NEW PJ Gooseneck 102"x25'

20' flat deck + dovetail with 3 spring assist fold over/stand up ramps, 15,680lb GVW, double jacks, LED lights, locking toolbox, spare tire & wheel

\$7,050

Midlakes Trailer Sales

"We'll hook you up"

1595 Yale Farm Rd., Romulus, NY 14541

Toll Free 888-585-3580 ~ 315-585-6411



TrucksTrucks

Martin's Farm Trucks, LLC

Trucks for All Your Needs - Specializing in Agri-Business Vehicles



2007 Freightliner Columbia, 14L Detroit, Jake, 10sp, 12/40k axles, air susp, 3.91 ratio, 171" WB, 738k mi \$17,900



2006 Mack Granite CV713 AMI-370, Jake, Mack 10sp, 20/46k axles, Hend. Primaax air susp, Quadlock, 264k mi, \$42,500

717-597-0310

4 Easy Ways To Place A ROCK ROAD RECYCLE Classified

1. PHONE IT IN - Just give Peggy a call at 1-800-836-2888

2. FAX IT IN - For MasterCard, Visa, American Express or Discover customers... Fill out the form completely and fax to Peggy at (518) 673-2381

3. MAIL IT IN - Fill out the form, calculate the cost, enclose your check/money order or credit card information and mail to: ROCK ROAD RECYCLE Classifieds, PO Box 121, Palatine Bridge, NY 13428

4. E-MAIL IT IN - E-mail your ad to classified@leepub.com e-mail or call with your credit card information.

FOR BEST RESULTS, RUN YOUR AD FOR TWO ISSUES!

Cost per issue: \$10.00 for the first 14 words, 30¢ each additional word. (Phone # counts as one word)

Number of Issues to Run \_\_\_\_\_

		\$10.00	\$10.30
\$10.60	\$10.90	\$11.20	\$11.50
\$11.80	\$12.10	\$12.40	\$12.70
\$13.00	\$13.30	\$13.60	\$13.90
\$14.20	\$14.50	\$14.80	\$15.10

Name: (Print) \_\_\_\_\_

Street: \_\_\_\_\_ County: \_\_\_\_\_

City: \_\_\_\_\_ St.: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Cell: \_\_\_\_\_ E-mail: \_\_\_\_\_

☐ I have enclosed a Check/Money Order

☐ Please charge my credit card:

☐ American Express ☐ Discover ☐ Visa ☐ MasterCard

Card #: \_\_\_\_\_ Exp. Date: \_\_\_\_\_ (MM/YY)

\* (REQ.) Card Security Code # \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_ (for credit card payment only) (MM/YY)





Want to run strong equipment?  
Run Doosan.

Visit us today to learn more.



Barry Equipment  
30 Birch Island Road, Webster, MA 01570  
508-949-0005  
joebarry@barryequipment.com  
www.barryequipment.com



Hoffman Equipment  
300 South Randolphville Road, Piscataway, NJ 08854  
732-752-3600  
sales@hoffmanequip.com  
www.hoffmanequip.com



Doosan® and the Doosan logo are registered trademarks of Doosan Corp. in the United States and various other countries around the world.



# ADVERTISE IN RockRoadRecycle.com



YOUR DYNAMIC NEWS RESOURCE FOR THE AGGREGATE,  
HEAVY CONSTRUCTION AND RECYCLING INDUSTRIES.

Log in to [rockroadrecycle.com](http://rockroadrecycle.com) for  
a FREE subscription.

## MAY - Editorial Focus

Composting/Screening/Dust Control  
Deadline 4/18/19

## JUNE - Editorial Focus

Crushing Equipment/Shredding Equipment/  
Wear Parts  
Deadline 5/16/19

## JULY - Editorial Focus

Scrap Processing Equipment/Material Handlers/Magnets  
Deadline 6/20/19



STAVOLA'S BOUND BROOK  
TAPS INTO PROFIT THROUGH  
NEW EMERALD WASH PLANT

FYE EXCAVATING: IT ALL  
STARTED WITH A BACKHOE

GOING GREEN WITH  
SENN BLACKTOP

ADVERTISE YOUR  
EQUIPMENT & SERVICES

INSERT YOUR BROCHURE  
IN OUR DIGITAL PUBLICATION

POST YOUR VIDEOS

PROMOTE YOUR AUCTION

1-800-218-5586  
[info@rockroadrecycle.com](mailto:info@rockroadrecycle.com)





# THE R REVOLUTION BEGINS.

## INTRODUCING BOBCAT **R**-SERIES EXCAVATORS

Robust. Remarkable. Revolutionary. However you describe them, R-Series compact excavators are the best yet from Bobcat Company. R you ready for the revolution?

► Take a closer look at NEW  
R-Series compact excavators:  
**[Bobcat.com/MyR-Series](http://Bobcat.com/MyR-Series)**

Bobcat®, the Bobcat logo and the colors of the Bobcat machine are registered trademarks of Bobcat Company in the United States and various other countries.  
©2017 Bobcat Company. All rights reserved. | 53663-8



**Bobcat®**

*One Tough Animal.*

Authorized Bobcat Dealers

### CONNECTICUT

**Bobcat of Connecticut, Inc.**  
East Hartford  
860-282-2648  
[www.bobcatct.com](http://www.bobcatct.com)

### Bobcat of Stratford Stratford

203-380-2300  
[www.bobcatct.com](http://www.bobcatct.com)

### MASSACHUSETTS

**Bobcat of Greater Springfield**  
West Springfield  
413-746-4647  
[www.bobcatct.com](http://www.bobcatct.com)

### Bobcat of Worcester Auburn

508-752-8844  
[www.bobcatct.com](http://www.bobcatct.com)

### NEW JERSEY

#### Bobcat of North Jersey Totowa

973-774-9500  
877-9-BOBCAT  
[www.njbobcat.com](http://www.njbobcat.com)

### NEW YORK

#### Summit Handling Systems Inc. Walden

845-569-8195  
[www.summitbobcat.com](http://www.summitbobcat.com)

#### Warner Sales & Service Rome

315-336-0311  
[www.warnerss.com](http://www.warnerss.com)

### RHODE ISLAND

#### Bobcat of Rhode Island Warwick

401-921-4300  
[www.bobcatct.com](http://www.bobcatct.com)