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FOR SHARP WORKERS**

**HISTORIC BEECH-NUT  
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**RECYCLING THE  
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**Addressing the need  
for sharp workers**



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- Remote control operations
- Technology



## Addressing the need for sharp workers

by Jeff Winke

On the cover: Ongoing skills and technology training of existing employees can prove to be critical for retention and the success of the company.

Photo courtesy of Topcon

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Three reasons why a diverse workforce is the best workforce



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A ten-year global view

by Peter Clarke  
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Keestrack expands worldwide manufacturing



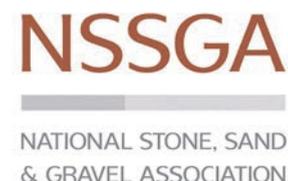
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Prairie Dawg Practical "Let's talk tech!"

by Tim Holmberg,  
DEMI Equipment



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## Addressing the need for sharp workers

by Jeff Winke

The emphasis on work processes demonstrates a respect for the intelligence of employees and invites them to think in a partner role.

Photos courtesy of Topcon

The scene is a busy mid-size construction contractor's office where owner-operator Bill plops into his desk chair while thinking that he and his incredible crew need relief, need help.

"I'm gonna close my eyes for just a minute," he promises before dozing into a familiar dream where he's sifting through a stack of resumes of experienced and qualified applicants all eager to work for him. He smiles contentedly until, "Bill! Bill! Are you sleeping? We need your help!"

It is a scary world out there. Owner-operators like Bill know that in spades. They struggle with tight deadlines, demands for regulatory-governed quality, better productivity, lower costs, more time in a day and that ominous need for a competent workforce.

The Associated General Contractors of America released a study of construction firms in the United States. A few key statistics included in their Workforce Shortage Report include:

- 8 out of 10 construction firms cannot find sufficient qualified employees
- 19% are investing in labor saving equipment and tools that require smarter workers
- 82% believe that it will be more difficult to find qualified workers over the next 12 months

"As the U.S.-based construction workforce becomes increasingly thinly spread," the AGC report stated, "owners and managers will be required to approach the problem of labor shortage creatively in order to convert these problems into opportunities. A key to overcoming the labor shortage in the construction industry is to invest in current employees to increase their skills, knowledge and abilities, as well as to support existing employees with labor-saving tools and equipment."

Investing in existing employees has definite advantages when compared to hiring new

employees.

- Current employees know how the company operates and manages its project sites.
- Current employees are a known entity. Managers know their strengths and weaknesses and may be better able to manage and lead them than new hires.
- With new employees there are start-up administrative costs, drug testing, equipment and safety training and general acclimation to new managers, co-workers and procedures.
- Current employees pose less risk. Studies have confirmed higher injury rates among workers who have been on the job for less than a year. Consider also that hiring new employees with less experience and then moving them quickly into the field to meet demands may create greater risk.

Clearly, on-going skills and technology training of existing employees can prove to be critical not only for retention but also the success of the company.

"The penalty for not keeping current with technology is

longer project timelines," stated Ron Oberlander, vice president, Global Professional Services, Topcon Positioning Group, Livermore, CA. "Successful training focuses on the work process which yields greater efficiencies and better results."

With the training emphasis on workflow, employees can develop a broader perspective on construction projects and all that goes into the tasks that culminate in their completion. The emphasis on work processes demonstrates a respect for the intelligence of employees and invites them to think in a partner role, which can strengthen their commitment to the job and the company.

"I've completed a couple of training programs conducted by Topcon and am scheduled for another in the next six months," said John Poirier, project manager with Warman Excavating & Trenching Ltd., Waldheim, Saskatchewan, Canada. "It is well worth the time, and the cost is inconsequential compared to what I learn. I'm getting trained by unbelievable trainers — seasoned experts with 20 to 30 years of experience with the company. They know the products, the market and understand the workflow."

"Technology changes too frequently," said Oberlander. "When we host attendees — distributors and end users — at our training sessions we focus on workflows and how the key features of our products and systems improve the productivity and efficiency of end users."

With the strong job economy today, it is sometimes difficult to find talent to fill open positions. A benefit of training and the power of easy-to-use technology means that construction contractors (and owner-operators) can hire less-skilled talent. They can either send them to instructor-led courses or put them through e-learning-based training. Either way, the knowledge and skills gap can be bridged.

Since every construction project is unique



Investing in existing employees has definite advantages when compared to hiring new employees.

*Since every project is unique and may require different technology and solutions, it is important for workers of all experience levels to engage in training regularly to remain up to date.*



and may require different technology and solutions, it is important — actually imperative — that workers of all experience levels engage in training regularly to remain up to date.

“Think about the advances in consumer technology, such as the Apple iPhone,” Oberlander said. “The innovations and high-powered processors that upgrade the iPhone annually are [now] being used in construction equipment. Look at the displays and systems inside a new excavator, dozer or other heavy equipment which now make them more productive to run and service, and in turn makes the contractor more efficient and profitable.”

Oberlander went on to describe how GPS machine control has evolved during the past 20 years from little adoption of machine automation to a market where some machine manufacturers are integrating machine control technology direct from the technology-provider’s factory floor into their machines or even wiring heavy equipment so that they are capable of later adding aftermarket systems. Some government agencies are even specifying that contractors working on their projects must employ GPS machine control on their equipment.

An example of the interest and commitment to training occurring in the construction industry is what Topcon Positioning Systems is currently doing. The company is investing by building state-of-the-art training facilities in the U.S., Italy and Japan.

The new six-acre training facility in the U.S. is being constructed at the Topcon campus in Livermore, CA, and will cover training for construction, geo positioning and paving. Vertical

construction and layout training will include a half-built building for real-world demonstrations. Two state-of-the-art classrooms will be included. The training facilities in Italy and Japan are being built to the same parameters.

“Since we focus heavily on workflow training, our training will mimic live applications that take place at a typical construction site,” Oberlander said. “The main difference is we can focus on the application and training without distractions of a contractor’s live jobsite. We always offer on-location training at the contractor’s jobsite or home office, but we believe that it is important to establish a baseline of education with a contained workflow at our training center. We also offer the students a tour of our manufacturing facility so they can see how the products they use are made.”

Contractors struggle with the need to keep up to date on the latest technology and trends that make their projects more efficient while attracting and keeping a full workforce in a tight labor market. The answers may be found in training both existing employees and new inexperienced workers on labor-saving technologies with a focus on the work process which yields greater efficiencies and better results.

What do you tell others considering training? Poirier said, “Go for it! There is 100% benefit to training; otherwise you’re looking at your technology being the world’s most expensive paperweight. Training gave me knowledge and confidence to feel comfortable with the technology. I recently set up a new excavator using a system I had mounted on a different machine. It works great and would have cost me \$42,000 to have someone come in and set up and initialize the GPS system on the excavator — all work I did myself.”

Clearly training can benefit contractors. It can add knowledge, skills and the confidence to succeed.

*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)*



*On-going skills and technology training of existing employees can prove to be critical not only for retention but the success of the company.*

# Volvo Dig Assist Start and Load Assist now standard on excavators and wheel loaders in North America

Volvo Construction Equipment continues to unlock the full productivity potential of its excavator and wheel loader lineup with its basic package of Dig Assist – Dig Assist Start – now standard on new EC220E to EC480E excavator models, and its Load Assist system now standard on new L150H to L260H wheel loader models.

“Our Assist programs give operators greater accuracy and proven time savings, so it makes sense to make these available as standard to help customers get the most out of their machines,” said Ray Gallant, vice president, Sales Support at Volvo CE. “With these systems, every operator can be your best operator.”

#### Dig Assist accuracy

Dig Assist Start maximizes excavator productivity by making it easier for operators to dig, trench and excavate. Operators can also create more complex, multidimensional site profiles to improve performance with optional upgrades to Dig Assist 2D, Dig Assist In-Field Design and Dig Assist On-Board Weighing. Powered by the Volvo Co-Pilot in-cab tablet and incorporating sensors and the latest location technology (GNSS), Dig Assist delivers impressive excavation accuracy in a fraction of the time compared to conventional methods.

#### Load Assist real-time information

Volvo Load Assist provides both real-time intelligence to the operator and documentation of work orders for the owner and their customers. Load Assist helps wheel loader customers save time and money with On-Board Weighing, a factory-fit system that can achieve +/- 1% accuracy on every bucket, ensuring machines shift the optimal load. With real-time insights into the bucket's load, operators can eliminate over-loading, under-loading, reweighing and waiting times. Also using Volvo Co-Pilot, customers can monitor loading progress, track materials and trucks and change work orders in seconds.

In addition to becoming standard on L150H to L260H models, Load Assist is also available as an option on L110H and L120H models.

#### Operator coaching: valuable new Load Assist feature

To help improve operator performance, Volvo is adding a new operator coaching functionality to its Load Assist program as a standard feature on L150H to L260H wheel loaders. As machines become more advanced with smarter technology, Operator Coaching helps ensure operators use their Volvo machine to its full potential. The intuitive app provides real-time guidance to operators on issues including idling, braking, throttling and engaging the transmission lock-up, helping them understand how their actions influence machine productivity and efficiency. It also identifies areas for improvement or necessary changes in their driving technique.

“With Operator Coaching, operators can set targets and objectives to continually develop and improve their operating practices



Dig Assist Start and Load Assist provide real-time guidance for operators to enhance performance, productivity and safety. Photo courtesy of Volvo CE

and get the most out of their machines,” said Eric Yeomans, product manager, wheel loaders. ■

*“Our Assist programs give operators greater accuracy and proven time savings, so it makes sense to make these available as standard to help customers get the most out of their machines.”*

~ Ray Gallant

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# Three reasons why a diverse workforce is the best workforce

Balance is always better when it comes to business – which is why Volvo Construction Equipment (Volvo CE) embraces a culture that puts diversity and inclusion at the center of its success. With ever more targets to increase representation across all groups, Volvo CE finds out what diversity means to some of its talented pool of workers.

## Talent is talent, whatever the person's physical abilities

Fernando Agostinho is a marketing communication analyst for Volvo CE in Latin America who has been with the company for more than 10 years and also uses a wheelchair. He said, "Diversity means everybody looking good in the same environment regardless of any differences that might exist among people, be it race, religion, physical disability, nationality, etc. When you as leaders wish to embrace diversity and achieve inclusion in their work team, what is your goal? Just to fulfil a legal requirement or a human resources department requirement? Or do you really care about including that person in this environment? Think about it."

Welder Rodrigo Botero works in operations from the Pederneras Plant in Brazil and is deaf. He agreed with Fernando, saying that if companies support people's needs there are no limits to employees' capabilities. "Volvo CE provides an interpreter when I need it and my leader and co-workers usually speak slowly so I can read their lips," he said.

## Challenging gender norms in construction

Despite efforts to increase gender diversity across Volvo CE, there still exists preconceived ideas about women working in the industrial area. For example, while there

are 25% female managers based in Volvo CE Operations in Eskilstuna, Sweden, there is still only 7% women working in production. Factory worker Emma Hedlund is part of that small percentage. "I believe a lot of people see the industry as something dirty, loud and with a lot of heavy lifts," she said. "My biggest fear was if I wasn't going to be able to work in that kind of environment because of my strength. But I've been working here for almost three years, so I guess I was wrong."

Meanwhile, expanding female representation across the functions was the specific goal of Volvo CE's Female Engineer Career Development project. Test Engineer Hyeyeon Kim is a member of the group and works across the Excavator Technology Platform from the Changwon Plant in South Korea. She said, "We found that we had been trying to fit ourselves into a male-oriented culture. We realized that instead we should strengthen our individuality and develop those individual qualities into our careers. I think it's very important to focus on the strength."

## Age is just a number

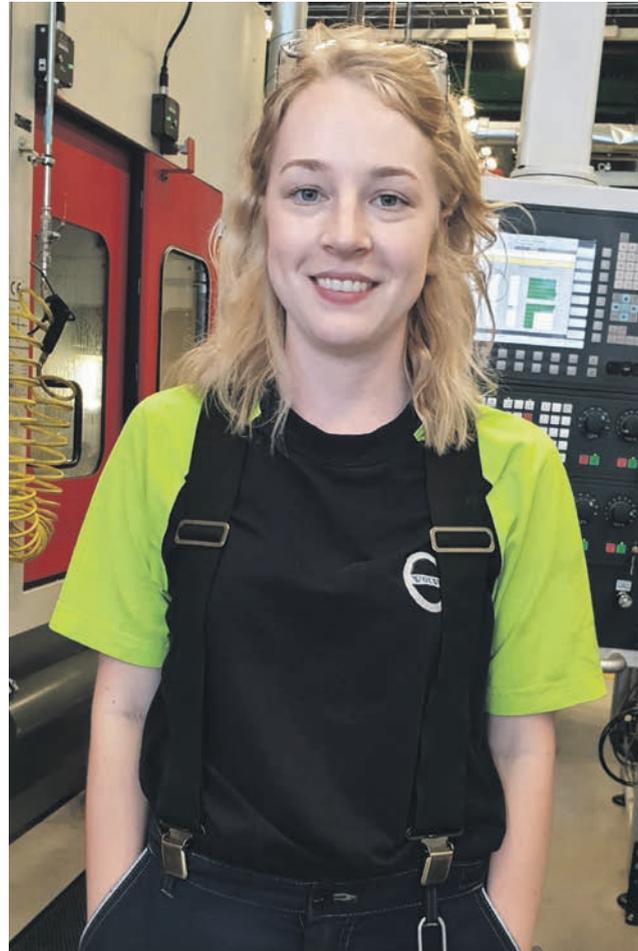
Diversity doesn't just refer to people's race, background and gender. It also applies across the generations. In China, for example, Volvo CE employees are mostly Millennials so increasing Gen Z workers – those born after 1995 – is part of a broader company initiative. Tracy Xiang, Volvo CE's Vice President of HR in China, said, "We have been working a lot to improve generation diversity. For example, in Sales Region China, we have a summer intern program in place to attract young top students to work with us." ■

*"Diversity means everybody looking good in the same environment regardless of any differences that might exist among people, be it race, religion, physical disability, nationality, etc."*

~ Fernando Agostinho



Fernando Agostinho, marketing communication analyst for Volvo CE, in Latin America.



Emma Hedlund, CNC operator at Volvo CE in Eskilstuna.

Photos courtesy of Volvo CE



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## Look! Up in the sky!

# SAFETY

*It's a bird, it's a plane, it's ...  
OSHA?*

Source: [Safety Law Matters / Husch Blackwell](#) / Posted in [ENFORCEMENT UPDATES, OSHA](#)

**A**n internal DOL memorandum last year to OSHA regional administrators confirms that OSHA can deploy unmanned aircraft systems (UAS), otherwise referred to as drones, equipped with cameras to assist with its enforcement and regulatory functions. What do employers need to know? How should you respond to a drone inspection?

In 2018, OSHA reportedly conducted nine inspections that were supported by drones. Those inspections predominantly, if not exclusively, involved situations where access to certain portions of the jobsite posed a substantial safety risks to OSHA compliance officers.

While OSHA's use of UAS technology in those situations sounds logical, the agency's use of UAS raises several questions for employers:

- When and where can OSHA use its drones?
- Will this "atypical" use of drones will be expanded to routine inspections?
- What risks does this new tool present for employers?

### OSHA's plans for drone inspections raise new issues for employers

According to the memo, OSHA has identified several uses for drones including but not limited to:

- Collecting evidence at work sites including areas that are inaccessible or pose a safety risk to compliance officers (currently, OSHA's memo limits the drone's sensors to traditional cameras, but commercial drones already support non-visual sensors)
- Providing technical assistance during emergencies and after accidents
- Providing compliance assistance, and
- Providing support to training exercises.

OSHA also disclosed plans to potentially file an application with the FAA for a blanket public Certificate of Authorization (COA) which would enable OSHA to operate its drones for a specified purpose on a nationwide basis. The memo's language leaves open the possibility of OSHA adding more applications to this list.

Understandably, the potential expanded use of drones to conduct aerial inspections raises concerns among employers regarding their rights and risks with respect to drone inspections. These concerns include:

- Does the use of drones, which can quickly provide a broad aerial view of a workplace, expand the workplace area that OSHA compliance officers consider to be in plain sight (since they may inspect and cite violations that are in plain sight)?
- Do drone inspections broaden the scope of the entire inspection and increase the number of hazards potentially detected by the compliance officer, resulting in more cita-

tions issued?

- Does the use of drones jeopardize trade secrets because the visual evidence is not labeled as confidential (as confidential documents would be)?
- Should employers deny consent to OSHA's drone inspection, or work collaboratively with OSHA?
- Will a blanket public COA change OSHA's obligations to obtain employers' consent before beginning a drone inspection?

### OSHA's not entirely free – FAA drone regulations and the OSHA memo restrict drone inspections to a degree

In June 2016, the FAA published initial regulations for commercial drone operators, which include public entities such as OSHA. In 2018, OSHA developed its own, more restrictive internal guidelines.

Under OSHA's guidelines, each of the 10 OSHA regions must designate a UAS program manager to oversee the regions' implementation of the OSHA drone program. Regional UAS program managers are instructed to provide a cost/benefit analysis and hazard assessment in its recommendation to the Regional Administrator prior to deployment of drones. The OSHA memo also requires OSHA to:

- Develop a flight plan prior to deployment of the drone
- Work in teams typically consisting of a certified remote pilot in command, a visual observer and a safety monitor
- Obtain the express consent of the employer to use the drone on the property
- Inform personnel at the work site of the aerial inspection prior to launching the drone
- Coordinate with local law enforcement to comply with state laws and local ordinances regarding drone operations

At this time, unless and until OSHA pursues a public blanket COA and the FAA grants the COA, or unless OSHA obtains a waiver, it must continue to comply with Part 107 of the FAA rules as follows. Drones must:

- Weigh less than 55 lbs.
- Operate within the visual line of sight of the remote pilot in command
- Not exceed the maximum groundspeed of 100 mph
- Maintain an altitude of 400 ft or lower from the ground unless the drone is flown within 400 ft of a structure, and then it must maintain an altitude of not higher than 400 ft above the structure
- Not operate over any persons not directly participating in the operation, not under a covered structure or in a covered vehicle
- Operate only during daylight hours, or twilight hours if operating with anti-collision lighting
- Not operate a drone from a moving aircraft or vehicle

### How should you respond to a drone inspection request?

The use of drone technology to conduct safety inspections of employer facilities is evolving. Given the reductions in costs and time associated with the use of drones, it is likely that aerial inspections will expand beyond high-risk situa-

tions and be used during routine safety inspections.

- Check the plans and consider consent. Certain situations, however, justify withholding consent to drone inspections. Just as compliance officers present their credentials at the start of an inspection, employers should insist on seeing the drone pilot's certifications as well as the route of flight for the drone before any drone operations begin.
- Safety hazards in the flight plan? Employers should examine the planned route of flight to look for locations where the flight might create a safety hazard for employees engaged in their normal work practices. There is no guarantee in the memo that OSHA will exonerate an employer from a general duty violation arising from a recognized hazard that the drone operation created.
- Confirm neighbors' approval. Employers should consider asking OSHA if the pilot has obtained written approval from adjacent property owners so that the employer does not become entangled with invasion of privacy complaints or nuisance claims. Similarly, at multi-employer worksites, OSHA's memo does not discuss the agency's course of action if there is a disagreement between the employers over giving consent for the inspection.
- Protect trade secrets. Employers may want to consider withholding consent if the aerial inspection poses a risk of revealing processes or equipment that constitute trade secrets or poses a safety risk to processes or equipment or operations. Under these circumstances, employers should provide information concerning the risks to justify their refusal to provide the consent requested.
- Work cooperatively and supervise. Absent such concerns, employers should be aware of local and state restrictions on the use of drones and should collaborate with OSHA at the outset to develop a flight plan, limit the scope of the inspection to the hazards at issue, evaluate whether the drone poses a hazard to the facility and obtain a copy of the footage videoed by the drone. As with a traditional inspection, a company representative should accompany the OSHA inspectors operating the drone.

At this time, it's unclear whether OSHA will proceed with plans to obtain a blanket public COA or whether the FAA would be inclined to grant the request. ■

By Erik Dullea on June 13, 2019



## A ten-year global view

Electric machines, emission regulations and market domination in the construction, agriculture and mining sectors

With the advent of electric vehicles entering the construction, agriculture and mining sectors (CAM) what does the future hold for the industry and what effect will this have on the used machinery market globally. Peter Clarke, founder and CEO of heavy machinery auctioneers, Yoder & Frey — the founders of the now legendary Kissimmee Winter Sale — comments on the future of the industry.

The Kyoto Protocol is the objective of the United Nations Framework Convention on Climate Change (UNFCCC) to reduce the onset of global warming by reducing greenhouse gas concentrations in the atmosphere. In order to comply with this, globally, the industry is striving to cut emissions, making road transport cleaner by setting strict new carbon dioxide emissions standards for all vehicles, passing new legislation on the engine emissions on non-road mobile machinery (NRMM).

This paved the way for new emissions standards for carbon monoxide, nitrogen oxides and particulate matter from all NRMMs ranging from hand tools to construction machinery with the aim to ensure that from 2030 onward, new vehicles will emit on average 37.5% less CO<sub>2</sub>. These initiatives have paved the way for new technologies to drive road-going and non-road going vehicles, such as cleaner fuel, hybrid fuel systems and battery power.

The on-road electric vehicle industry is heading for a vicious fight with private cars set to see a collapse in sales as more people move to cities using more shared transport, rather than running private vehicles. In contrast, off-road electric vehicle OEMs are looking ahead to prosperous growth, in particular for CAM sectors.

### Compound growth

In the next 10 years the electric vehicle market in the CAM sector is predicted to burgeon. The sector has already been employing robots, drones, hybrid and pure electric vehicles, with approximately 15% of CAM vehicles rolling off the production line being electric. Over the next 10 years that number is expected to increase, when in 2029 the numbers are predicted to be close to 100%.

With such a huge demand for new clean electricity to power those vehicles, further demands will be put on new technology to generate that power — on and off grid — with delivery of that power requiring new infrastructure. The CAM market is projected to grow at a compound annual growth rate (CAGR) of 4.52% with a market size by 2029 of in excess of US \$200 billion from \$146.17 billion in 2018.

The CAM vehicle business will grow more than six-fold in value by 2029 grabbing records for both the highest volume electric vehicles (EVs) and the highest unit value. OEMs are innovating at a frenetic pace with some of the minor players innovating faster than many of the giants, of which a few seem to be sleeping through this future proofing period. Which technologies win? Which sectors go straight to pure electric and which need the hybrid interim stage? With even 300kW mining trucks working well as pure electric what is the place for fuel cells?

### The expanding market

The earthmoving equipment category is the largest segment of the CAM market by category, with much of construction equipment used to carry, dig, spread or move earth and materials. In comparison, the material-handling equipment category is the fastest-growing segment in the market, including machines that manufacture, store, stack, distribute, deliver and recycle.

Road rollers of all size and specification are the fastest growing single item of equipment in the market, with increasing use attributed to need for highway infrastructure in developing countries such as India and China. Large road development projects such as the China-Pakistan Economic Corridor (CPEC), which aims to connect China with Central Asia creating a modern “silk route” also being a contributor to this factor.

Upcoming infrastructural projects and increased government spending have led to an increase in construction activities globally. With the advancements in technology, CAM equipment is becoming more fuel-efficient

ery sectors, in as much as they will be potentially capable of driving autonomously, self-driving in such a way to be highly fuel efficient, using GPS to navigate, out-put more efficiently, record operating data to produce delivery invoices in the haulage sector, be more secure and in time will be able to self-order spare parts for routine services and then telling the operator that they need fitting.

### Robot farming and mining

The industry is currently moving from the old electric drive designs to full hybrid and pure electric. Electrification is also crossing over with the journey toward automation and ultra-precision agriculture. With issues such as demographic pressures and aging populations, farmer’s may be driven toward “robot farming.” These factors, along with increasing environmental concerns over the use of herbicides may mean that in 10 years, the best-selling EVs in numbers are likely to be robot weeding machines. Meanwhile, the most expensive EVs will be in the mining sector where monster autonomous load-

tionally, it is speculated that Japan will also follow these regulations once they are in place. Selective Catalytic Reduction (SCR) is projected to be the largest segment of the construction equipment market by aftertreatment devices due to the stringent emission regulations that are speculated to be implemented in the Asia Pacific region.

Construction equipment with 200–400 hp power output are projected to be the fastest-growing segment, with the market in Asia Oceania expected to grow at a faster rate as the requirement for infrastructure development in China and India are growing steadily.

Infrastructure is not only the largest, but also the fastest-growing segment of the construction equipment market by application. Equipment categories such as crawler excavator, wheeled loader, motor grader, crawler dozer, asphalt finisher and road roller are used to develop bridges, roads and tunnels. Due to the increase in infrastructure projects, the demand for this equipment will also increase.

### Market domination

Asia Pacific is the largest market for rental construction equipment, with increasing population and urbanization, the demand for infrastructure development, housing, and office space in this region is projected to increase significantly over the next few years.

The Asia Pacific region is estimated to dominate the OEM construction equipment market and is projected to remain the largest market for construction equipment in 2029. This growth can be attributed to the improving socioeconomic conditions in emerging economies such as China and India. The Middle East region is expected to grow at the fastest compound annual growth rate during this period because of the large infrastructure projects planned in Qatar, the UAE, and Saudi Arabia.

The construction equipment market is dominated by a few global players and is comprised of several regional players. Some of the key manufacturers operating in the market are Caterpillar (US), Komatsu (Japan), Terex (US), Volvo Construction Equipment (Sweden) and Hitachi Construction Machinery (Japan), XCMG (China), Zoomlion (China).

Caterpillar has been the dominant global player in the construction equipment market for a long time with a wide portfolio of products that are innovative and technologically advanced. During the next ten years, it is expected to remain the largest player in the markets. Asian players such as XCMG and Zoomlion are expanding into developed markets to diversify their revenue streams. Due to their operational efficiency, these regional players are expected to challenge the established players globally.

### What next

With the advent of cleaner fuels and regulated reduction in emissions, where do machines that no longer comply, go to die? The quick answer is possibly Africa, India and parts of the Far East. However large numbers will end up being owned by owner-operators for small contracting uses and possibly on private land. However, one thing is true of the used machinery market and the auction community. Regardless of machine, year, hours, condition or legislation compliance, there will always be a buyer for that lot, somewhere in the world. ■



Peter Clarke, founder and CEO of heavy machinery auctioneers, Yoder & Frey comments on the future of the industry.

with lower emission levels as well as enhanced safety and better-handling features.

### The rise of the machines

The ‘Internet of Things’ (IoT) phenomenon will be the next factor in determining how machines best serve the industries. The definition of IoT, is the interconnection via the Internet of computing devices embedded in everyday objects, enabling them to send and receive data. This emerging technology will mean that machines will become “self managing” and reshape the CAM machin-

haul-dump machines with the electricity to power these vehicles also becoming cleaner and massive renewable generation sites set up off grid right next to the locations where these monster EVs operate.

### Emissions regulations

Engines conforming to Tier-5 emission regulation are projected to have the largest market share of all current construction equipment in use by 2029. North America, Canada and Mexico are speculated to have enforced these regulations by 2025. Addi-

# NSSGA members see value in quarry tours

by [Evan Johnson](#), NSSGA Communications Coordinator

Congress is working hard to pass a number of key infrastructure bills this summer that will provide innumerable benefits to the aggregates industry. To keep the pressure on our elected officials and build relationships with these lawmakers, NSSGA recommends that member operations host as many of their congressional representatives as they can. Last year, CRH, LafargeHolcim and Bond Construction Corp. hosted their representatives all throughout August, answering questions and guiding tours.

CRH launched their 30-in-20 Tour, hosting 32 elected officials in only 20 days. Ryan Lindsey, executive director of government relations at CRH's Americas Materials Division, made sure that no two tours were the same, saying, "We worked with local company leaders to play to their operation's strengths or focus on specific industry issues. For most, time was spent in and around the facility explaining how our business and industry works. For others, the focus was on engagement such as a Q&A, round-table or meet and greet with employees. In fact, at one tour a barbecue was even held with over 250 employees in attendance!"

"I reached out directly to the district and D.C. offices of my representatives and senators. It's easier than you might think," Hicks Winters, director of government and public affairs at Lafarge-

Holcim, said when asked about the first steps to organizing a quarry tour.

Karen Hubacz-Kiley, chief operating officer of Bond Construction Corp., told NSSGA that the state, local and congressional offices she contacted about her quarry tour gave very positive responses and came to the tour. "It was quite easy and fun. Just give yourself plenty of time ahead to schedule," she said.

Not only do quarry tours offer your representatives media exposure and quality time with their constituents, but NSSGA members



Rep. Jim McGovern at Bond Construction Corp.

Photos courtesy of NSSGA

a moment to highlight the history of your operation, introduce your staff and give a description of your involvement in the community and any key safety and environmental programs you've initiated. Most importantly,

last September. He always wants to know of any issues we have and would certainly be of assistance," said Hubacz-Kiley.

Winters cautioned not to be a "one hit wonder," stating, "True relationships require work, which means more than a phone call or email for a plant tour once every couple of years. Become a part of the members' trusted circle and be prepared to offer solutions from the perspective of your business and our building materials industry."

Quarry tours offer NSSGA members the opportunity to engage Congress and other elected officials on a wide array of subjects. Developing deep-seeded relationships works both ways. Your representatives can address national issues from the point of view of their constituents and they may turn to you for advice and guidance when issues arise.

"Hands down, the biggest benefit is building a strong relationship before you need it," said Lindsey. "That way when an issue arises, the representative and his or her staff will likely be much more receptive to input because they know exactly who you are."

"We have a lot of work left to do if we are to see a robust spending bill passed but we love our momentum and where we are headed," said Lindsey. With election campaign season fast approaching, get on your representative's radar now, and consider making visits an annual event for your lawmakers. ■

*"True relationships require work,  
which means more than a phone call or email  
for a plant tour once every couple of years.  
Become a part of the members' trusted circle and  
be prepared to offer solutions from the perspective of  
your business and our building materials industry"*  
~ Hicks Winters

also gain the opportunity to discuss important issues one-on-one with their representatives. Winters and Hubacz-Kiley suggested that any operation willing to plan their own tours should take

they encouraged operations not be afraid of discussing any regulatory or legislative concerns elected officials can address.

All three companies maintain good relationships with their representatives. "Our local state representatives I see on a regular basis and they are always accessible if there is an area of concern that we have. I did see Congressman McGovern at NSSGA's Legislative and Policy Forum in D.C.



Rep. Anthony Gonzalez visits the Shelly Company, a CRH company.

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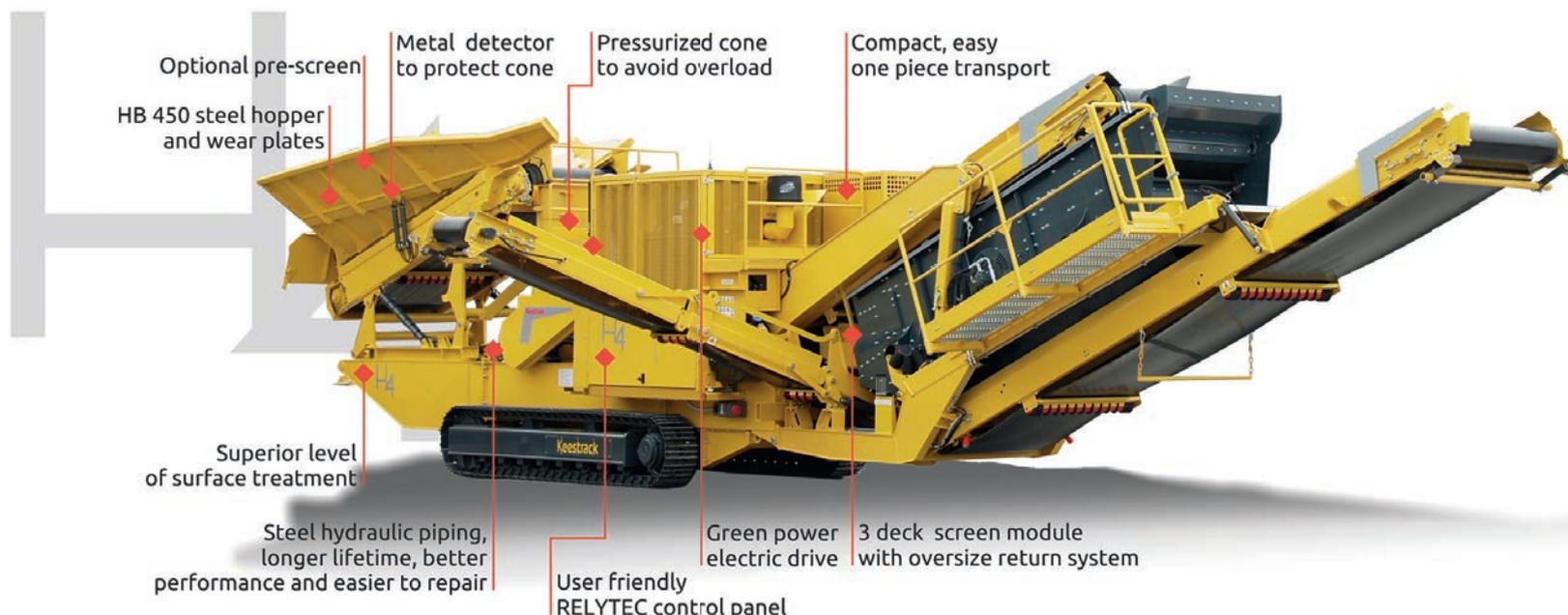
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# Keestrack expands worldwide manufacturing



Both projects offer a state-of-the-art working environment at the factory with currently 480 employees.

Photos courtesy of Keestrack

With the official opening of a new 8,740m<sup>2</sup> assembly complex, the second extension phase of the company's main factory in Šternberk, Czech Republic has been completed. Next milestones and new extension projects will be set and started in 2019, including the opening of Keestrack's Indian assembly in Neemrana and new production capacities in Ponzano Veneto, Italy.

## Successful mid-term expansion

Opened in 2001, Šternberk was the sole manufacturing site for tracked screeners and crushers of the Belgium-based processing specialist until 2007. Then the Chinese screener assembly in Chuzhou went into operation, and in 2010 Keestrack acquired the Italian jaw crusher manufacturing of former OM. Because of continuous growth, requirements on Keestrack-CZ were increasing rapidly – today the 5-hectare factory supplies all Keestrack impactors, screens, scalpers and stackers and provides modular machine components for the jaw and cone production at Keestrack-Italy as well as high quality kit modules for Keestrack's Asian operations.

As a reaction on the integrated manufacturing concept, the group invested early in modern, fully automated manufacturing technologies (ie. plasma-cutting) to guarantee fast and flexible internal supply of key components. In 2009, Keestrack introduced an anti-corrosive zinc-phosphate nano

powder painting line in Šternberk, providing a high-quality long-lasting finish of frame components and other plant key structures.

In 2014 the group management decided to launch a mid-term development program to expand the capacities at Šternberk. The first phase of the planned three steps was adding a modern 5,000m<sup>2</sup> factory in 2016 for steel construction, additional to the existing halls (8,000m<sup>2</sup>), and this improved raw material logistics remarkably. The second new complex – operational since September 2018 – now completes phase 2 with an additional space of 8,740m<sup>2</sup>, accommodating parts storage and four separate assembly lines for screeners and crushers. Both projects offer a state-of-the-art working environment at the factory with currently 480 employees.

The optimized production processes improve the workflow and significantly reduce lead times for components and complete plants. As an example, Keestrack introduced a four-cycle line production process for its medium range of scalpers (K3 – K6) and the new 30-ton impactor crusher, the R3. Compared to the former work cell production, the new process is expected to reduce the manufacturing time by up to 30%, depending on the type of model.

According to Keestrack management, phase 3 of the factory extension will be initiated in 2019/20, including a new quality control facility, a modern spare part logistics terminal and a state-of-the-art customer center. Parallel to the floor space extension Keestrack-CZ will implement a new powder coating line, remarkably increasing production capacities and considering larger workpiece dimensions for the coming heavier Keestrack models.

## Integral and global investments

Keestrack also announced important investment at its Italian operation in Treviso, Ponzano Veneto. Within the group's integrated manufacturing and distribution concept with decentralized international technology competence centers, the 2.4-hectare operation supplies the complete series of jaw crushers and the growing range of tracked cones. Contributing to the expanding Keestrack heavy range with powerful track-mobile

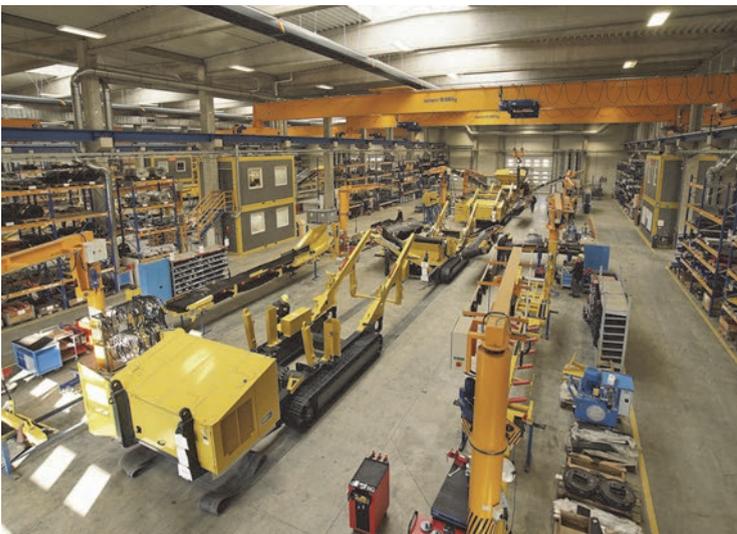
processing systems for quarrying and mining operation, the existing 5,000m<sup>2</sup> production of Keestrack-Italy will at least be doubled by the planned factory extension to be finalized in 2020.

Production of the group's Indian branch, Etrack Crushers, was scheduled for May/June 2019 at the brand-new assembly with the first machines leaving the 10,000m<sup>2</sup> facility in Neemrana, around 100km south of New Delhi, in August.

The production program initially includes the full hybrid crushing plants Keestrack B4e (jaw) and H4e (cone), identified to meet the demands of Indian contractors in terms of productivity, transport and on-site mobility. Etrack's assembly is flexible, based on core OEM modules (crushers, frames, chassis, etc.) delivered from the group's European factories and components of international technology partners (engines, drives, etc.) or local suppliers.

## Sound economic base

Structured as an independent family-owned international holding, Keestrack is led by Group President Kees Hoogendoorn, his spouse Annet Schoenmaker and sons Peter and Freek Hoogendoorn, as second generation owners. Headquartered in Bilzen, Belgium, the group directly employs today more than 700 in its international manufacturing and aftersales activities. The company's sales and service network covers more than 50 countries on all continents, totaling 75 dealer and service partners. ■



The optimized production processes improve the workflow and significantly reduce lead times for components and complete plants.



The Hoogendoorn family L-R: Peter, Annet, Kees & Freek.

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# Prairie Dawg Practical

by Tim Holmberg, DEMI Equipment

## Hey Prairie Dawg, "Let's talk tech!"

It would be difficult to imagine our world today without remote controls, computer logic or other technology-based advancements integrated into just about everything that surrounds us.

So why not press on with these welcomed features into new equipment being designed and created for today's (and future) markets? Is it possible that there are any drawbacks to utilizing technology advancements? Do they (often) create more problems than they were intended to eliminate by quickly becoming obsolete? By discussing both sides of the topic, will I help unite the possible generational gap of acceptance – or possibly divide it even further? Either way, as with most things, the more we are surrounded by something, the better the chances are that it is going to become or remain a part of our everyday lives.

If I remember correctly, during my lengthy tenure within the industry, some of the first regularly produced remote-controlled equipment introduced into the aggregate production community would dump a hydraulic grizzly positioned over the top of a standard issue hopper belt feeder. The loader operator could immediately realize the benefit of being able to dump and clear the grid while remaining within the safe confines of the loader cab. Having this simple yet valuable feature quickly eliminated needing another worker intermittently present, so they could manually operate the hydraulic lever to dump the grizzly (or worst case, even having the loader operator stop occasionally from his feed cycle and get out to dump the grizzly).

Either way, it required the exposure of going from a safe environment into an unsafe one where just about anything can happen if you're not paying attention. I know from being a manufacturer of remote dump features – as simplistic a design as they were, they added an amazing value to an operation.

Then came the start of track-mounted processing equipment where both remote control and computer technology were quickly advancing and partnering together for many of the features required to make operating this complex machine a reality. Some of the very first technology wasn't quite ready for the tough dirt- and dust-filled unprotected environments they would be working in.

The equipment experienced excessive or extreme jarring vibrations and the delicate computer packages didn't hold a chance of surviving the punishment they were being placed under. Like anything, as the newer models kept arriving, so did improvements within the manufacturing technology, eventually providing real time data and quality control feedback. Today, not only does this technology work well at operating the functions, it works great at monitoring and even adjusting the parameters of the machines, all without slowing down mechanically. Because of the current advancements to this product offering, one can pretty much know at any moment exactly how a machine is performing and view it on the screen of their phone or other personal electronic.

Is all the new technology causing the generation before us heartburn? One can about guarantee that when a piece of equipment is down and waiting on parts, the "old timer" (as he is often referred to) is beside himself with frustration and disgust because the world has forced him into taking bad-tasting medicine he didn't really need. Are there cases where we find out the electronic control system has been compromised and no longer repairable? Or a newer and extremely expensive replacement component has to be diagnosed properly first and then replaced? Would knowing this could happen at any moment put an operations manager a bit on edge?

I say the answer is yes, and the old timer has every right to be heated and upset when operations are broke down for what seems to be an inoperable computer device that he can't just

go to the local parts counter and get a replacement for.

In order to better unite the skepticism between generations of the workforce I would hope that we never lose the override feature or manual mode with a simple

control lever option, no matter how stable this technology becomes.

We should never lose sight of the fact that the earliest built equipment was really what allowed for the opportunity to develop the new technology and remote control systems to be added in manufacturing. Let's always respect where we came from, even if we ask ourselves "How did they do that back then?" I believe most manufacturers when possible or applicable usually have multiple modes of manual override built in so they can still operate their machines – unless it's the one running the engine that decides to take a vacation.

As you continue to process your aggregate-based materials, remember that it's okay to maintain a good mixture of both early and late model equipment and definitely some

long-term employees as well as some recently hired so that each can learn from the other. The future never stops coming and our past never stops leaving.

*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).*

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TUCSON, AZ – Hexagon’s Mining division recently announced the introduction of HxGN MineOperate Reverse Assist, a high-precision positioning application that guides truck operators with the optimum reversing path. Reverse Assist completes the division’s Operator Assist product suite.

Inaccurate reversing maneuvers and costly collisions are perennial hazards for drivers backing into a loading position, a process known as “spotting.” The direct cost of inaccurate spotting can be thousands of dollars per shovel per day. Reverse Assist all but eliminates re-spotting.

Traditionally, mines utilized inefficient practices to guide truck operators, such as bucket spot-

ting and single-side loading. This limited the production capacity of trucks and shovels.

By calculating a path and providing a truck operator with dynamic guidance along that path, Reverse Assist ensures operators position right the first time, without the need for shovel-bucket support. Reverse Assist keeps the mine running safely and smoothly, increasing shovel productivity, saving time and money.

“Optimizing the loading and unloading or dumping cycle is critical for mining operations,” said Head of Automation Fabien Ritter. “Reverse Assist simplifies complex operations, such as spotting, and is a true dual-loading enabler.

“Aside from produc-

tivity gains, Reverse Assist brings other benefits, such as shorter operator training and proper load distribution. It eliminates machine damage and inadvertent contact with the shovel, not to mention the risk of associated injuries.

“For mines balancing the need for cost efficiencies and safety, Reverse Assist is an important building block in that strategy.”



Reverse Assist ensures operators position right the first time, without the need for shovel-bucket support.

Photo courtesy of Hexagon

## NPK announces purchase of Genesis Attachments LLC

NPK Construction Equipment (NPKCE), a subsidiary of Nippon Pneumatic Mfg. Co. LTD (NPK Japan), recently announced it has purchased Genesis Attachments LLC (USA), Genesis Holdings (Germany) and Genesis GmbH (Germany).

In the release, NPK President Dan Tyrrell said, “We are very excited about this new partnership because, like NPK, Genesis is a market leading attachment supplier with a focus on quality products. Genesis has a great distribution network and an incredible group of dedicated employees. Genesis’s scrap processing, demolition and material handling attachments are well-engineered high quality products with an outstanding reputation with their customers in the marketplace. The acquisition of Genesis will make both companies stronger.”

Tyrrell went on to say that the expertise, experience, culture and the company spirit of both businesses will benefit all customers and dealers, both nationally and globally.

Genesis Attachments LLC was founded in 1997 and is based in Superior, WI. Genesis GmbH was founded in 2002 as the European licensee and exclusive sales partner of Genesis Attachments LLC. The manufacturing facility in Superior, WI, has 117 employees while their counterparts in Europe have an additional 15.

According to Tyrrell, NPK doesn’t plan on making changes to the business model, but rather plans on coming together with Genesis to continue improving the experience for dealers and end users alike.

Nippon Pneumatic Mfg. Co. LTD was founded in the early part of the 20th century selling pneumatic tools and has been designing and manufacturing construction equipment attachments since the late 1950s. In 1975 NPK Europa B.V. was established in Rotterdam, Holland, to expand sales channels in the European community. By the mid-1980s, NPK was a well established, highly reputable manufacturer of hydraulic hammers, crushers/pulverizers, shears and pile drivers.

In 1985 NPKCE was established to provide exclusive distribution and product support for the western hemisphere. Shortly after its inception, NPKCE quickly built an extensive dealer network for product distribution.

In the years since, NPKCE has added manufacturing and machining facilities transforming the company into a fully-fledged designer, manufacturer and assembler of quality C&D attachments and pedestal boom systems. ■



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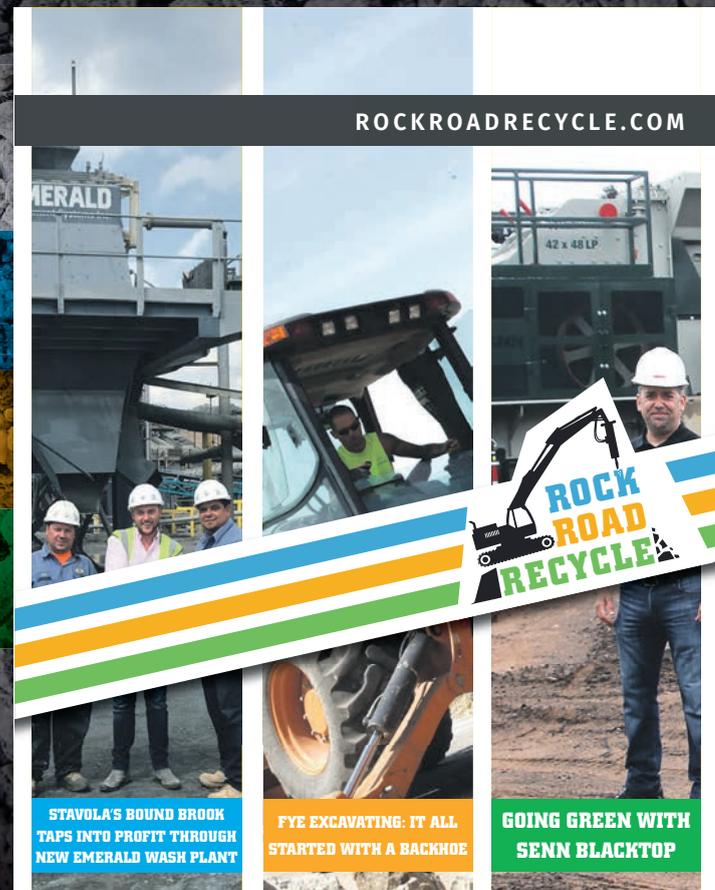
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*Historic Beech-Nut plant  
undergoes partial demolition*



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- Construction demolition
- Attachments
- Crushing & screening equipment



## Historic Beech-Nut plant undergoes partial demolition

by Jon M. Casey

On the cover: Gorick Construction's Jeremy Mahakian, Trey Peterson and Jason Rezucha (L-R) on the Beech-Nut plant demolition site in Canajoharie, NY.

Photo courtesy of Gorick Construction

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## People in the industry

### Pettibone adds Bracing Systems Inc. to dealer network

BARAGA, MI – Pettibone/Traverse Lift LLC announces the addition of Bracing Systems Inc. to its dealer network. With locations in Hanover Park and Mokena, IL, Bracing Systems will primarily focus on sales and service of Traverse telehandlers for northern Illinois and a portion of northwest Indiana.

“We are excited to welcome Bracing Systems Inc. to the Pettibone team,” said Kyle Rubin, director of sales and marketing for Pettibone. “The company’s rich history and personal connections to the ma-

sonry and concrete industry in particular make Bracing Systems perfectly suited to handling the Traverse product line and its unique advantages for that market.”

Bracing Systems Inc. was founded in 1972 when a group of masonry contractors including John and Bob Williams launched their own supply business, spurred by their invention of a bracing pole for free-standing masonry walls. The company has since grown to become a one-stop shop for masons and concrete contractors through both new equipment



Bracing Systems will primarily focus on sales and service of Traverse telehandlers for northern Illinois and a portion of northwest Indiana.

Photo courtesy of Pettibone

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In taking on the Pettibone Traverse, Bracing Systems now offers the industry’s only new telehandler product line with a traversing boom carriage, which allows operators to safely place loads at full lift height without needing to coordinate multiple boom functions.

“There’s a high demand for traversing telehandlers in the masonry business, so we’re thrilled to be offering Pettibone to our customers,” said Jared Williams, sales representative for Bracing Systems Inc. “This style of boom has proven to be a safer way to land material at height as well as to provide better control when moving mobile scaffolding around a jobsite.” ■



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## Historic Beech-Nut plant undergoes partial demolition



Demo'd materials are stockpiled awaiting removal to Seneca Meadows recycling facility.

Photos courtesy of Gorick Construction Co.

Motorists traveling the New York State Thruway (Interstate 90) in upstate New York will pass what once was the Beech-Nut Baby Food manufacturing plant in Canajoharie, NY. This famous facility opened in 1891 and was the home to what was (at the time) a national icon for a child-rearing population. A portion of that historic complex is now being demolished to make way for future development. At the time of this writing, 11 buildings located on the eastern half of this 29-acre property are in the process of being taken down and removed by Binghamton, NY, demolition contractor Gorick Construction Company, Inc.

Gorick Construction Company project supervisor Jeremy Mahakian said their entire project is scheduled for 130 days and should be completed ahead of schedule. Mahakian explained that because of the kinds of materials found in these old structures, detailed oversight is critical. It is important to document each load and what they contain before they head to their destination. In this instance, the C&D "clean" materials are designated to go to Seneca Meadows Landfill, Seneca Falls, NY. He said asbestos abatement and universal waste removal was completed prior to starting the "clean" demolition.

Currently, they are progressing well with their primary objectives. All of the work is done with environmental safety in mind. "We have a water truck on site that we use to clean the roads of dust that might come from the jobsite," he said. "We are incorporating a Community Air Monitoring Plan (CAMP) on this site. We have four air monitors that are in operation any time we are doing demolition. Three are placed downwind of the site and one is upwind. Sal Maiorana, our safety officer, is in charge of the monitoring."

Mahakian said they are controlling fugitive demolition dust with an HKD Blue V500-T dust control system. He said that Gorick recently acquired this unit and that it is doing a superior job on this project. It has a number of useful features that gives his crew continuous dust control and safer operation.

Recently, his five-person team faced a difficult challenge. They were to tear down and remove a 50,000-gallon steel tank located near the road that

passes the plant. More importantly, it sat near the Canajoharie Creek. The tank originally was built in place inside a containment dike for added safety to the surroundings. That location made it difficult for the equipment operator to use a typical style of dismantling.

Instead of using a two-man/two-machine crew to hold and dismantle the tank, a single shear operator, Ralph Hotaling, was tasked with taking down the structure sin-

gle-handedly. "Ralph, our lead operator, did it without incident," said Mahakian. "He took the entire tank down and removed it in a day and a half."

Mahakian said they have a variety of demolition equipment onsite, which gives them whatever they need to do the job. Gorick's new Volvo EC480EHR high-reach excavator outfitted with a standard digging boom and shear did much of the primary demolition. "Demolition began on April 15," he said. "Last Friday he finished Building 63. Then he began Building 49. Now (April 26), he is working on Building 48. We are making good progress.

"Sorting and processing the steel and other materials begins right at the job site," he said. "Ralph will work one bay at a time working from column line to column line. He cleans the C&D off, then the roof and then he cuts the steel and sets it where another operator can come to get it and take it to our stockpiling area for later loading. If there is other processing that needs to be done, it can be done at that time. It's like an assembly line once you get started and everybody is working together.

"There's not much concrete to be removed from this site," he added. "The slab is staying, with everything being brought to slab grade. There are some random places where there is some concrete, like column bases, but most of the material is steel. Where there are concrete blocks, we sort those accordingly.

"We have two excavators with hydraulic shears on site. We also have a LaBounty UP30 universal processor on the 360 Komatsu," he continued. "We have an apprentice operator on the CAT 289C Skid Steer that is used to move material and we have a Bateman Hydraulic Magnet on another excavator that we use for cleanup. That can come in very handy."

He said one place that calls for extra care when dismantling is where they have been designated to leave an existing wall on an adjacent structure. Since the complex has seen a number of additions over the years, with one building added on or attached to an existing building,



Ralph Hotaling, lead equipment operator, nears completion of taking down the 50,000-gallon steel tank.

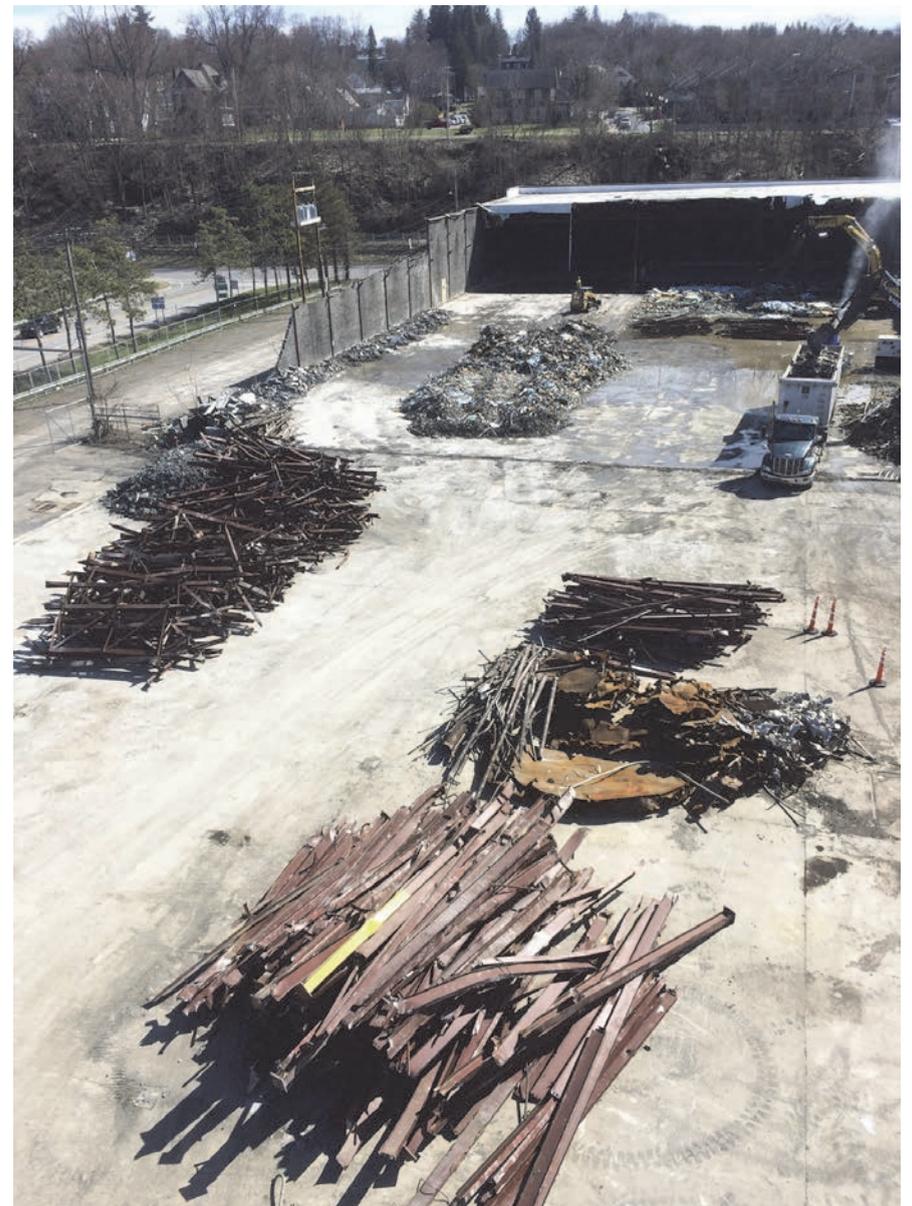


Left: Hoteling moves in to cut beams on this section of building. Right: the building is down and site is in the process of being cleared.

it becomes challenging to remove the unwanted structure and still leave the desired building intact. "Sometimes there can be some twisting when you shear through a beam or column, so our operators are especially careful to avoid any unwanted damage to the existing walls," he said.

Mahakian noted that once this work is complete, the village is looking to sell or lease the property as part of a community improvement plan. He said he hopes they are successful in finding new owners or tenants for this property. "They deserve to have this turn out well for them," he said. "It has been a long time coming."

For more information about Gorick Construction visit their website at [gorickconstructioncoinc.com](http://gorickconstructioncoinc.com) or like them on Facebook. ■



The project is scheduled for 130 days and should be completed ahead of schedule.



Dust control is continuous during demolition.

# KINSHOFER introduces KSB-Series excavator hydraulic breakers with durability & operator comfort features

SANBORN, NY – KINSHOFER has expanded its extensive line of excavator attachments with the addition of the KSB-Series hydraulic breakers. The manufacturer announced the breaker series at World of Concrete 2019 with the acquisition of Hammer, an Italy-based manufacturer of demolition, excavation, recycling and material handling attachments. The new line features a monobloc design and other standard elements to increase durability and comfort for operators in construction, demolition and recycling.

The KSB-Series encompasses eight models for 0.5- to 12-ton excavators. The smallest unit, the KSB 1, weighs 155 lbs (70 kg) and can complete 900-1,100 blows per minute with 207 foot-pounds (280 joules) of energy per blow. The KSB 12 is the largest in the series at 1,191 lbs (540 kg) with 600-800 blows per minute at 1,696 foot-pounds (2,300 joules).

“With the addition of the KSB-Series, KINSHOFER now has more options to help customers find the attachments that fit the individual needs of their operations,” said Francois Martin, KINSHOFER North America general manager. “This line of lightweight breakers gives our customers more versatility with what projects they can take on without sacrificing the quality and safety they’ve come to expect from KINSHOFER.”

All models in the KSB-Series are manufactured as a single piece without tie rods – a distinctive monobloc design – that makes them extremely resistant to linkage strain during operation. The monobloc design reduces maintenance and increases productivity as well. The breakers are also equipped with an optimized nitrogen inertial energy

recovery system. Like other nitrogen systems, the KSB system increases power to the machine and reduces stress on the excavator arm in hard rock or difficult breaking situations by using energy generated by piston rebound to increase strike power. The main drawback to nitrogen inertial energy recovery systems is the need for frequent re-fills. However, KINSHOFER’s KSB-Series breakers feature 300% longer nitrogen charge life with the use of special sealing rings on the floating support.

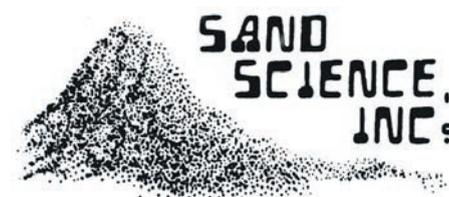
In addition, all KSB-Series models are equipped with operator comfort-enhancing features. All KINSHOFER breakers are designed to limit vibration from transmitting to the frame, increasing operator comfort. This design feature also reduces wear on bushings and other excavator components. The KSB’s monobloc design also reduces noise levels during operation thanks to the sealed casing and soundproofing material. The low noise level reduces disruption and is ideal for operation on jobsites with strict noise ordinances such as those near hospitals and in urban areas. The breakers are also tapered, improving visibility and safety during use in difficult areas, such as near walls.

“The KSB’s monobloc design and additional safety features embody KINSHOFER’s core values,” Martin said. “We are dedicated to bringing our customers durable equipment to help them complete every job safely and efficiently. We believe in the quality of our products, including the new KSB breakers. Our comprehensive two-year warranty is our guarantee customers are getting KINSHOFER quality.” ■



KINSHOFER has expanded its extensive line of excavator attachments with the addition of the KSB-Series hydraulic breakers for 0.5- to 12-ton excavators.

Photo courtesy of KINSHOFER



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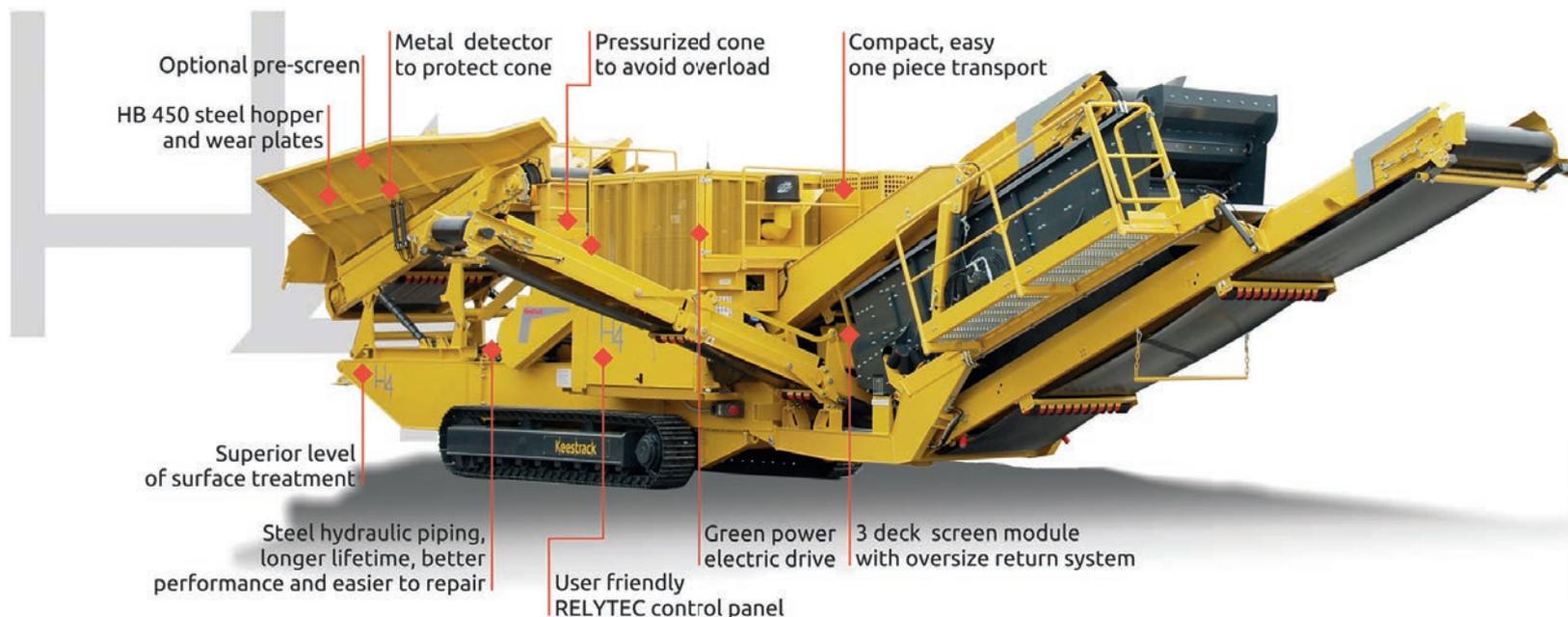
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Joseph A. Hardick,  
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# Getting to the bottom line

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## How to avoid IRS inquiries when using independent contractors

Many construction companies use subcontractors rather than hiring employees to perform certain aspects of a job. These arrangements can save time, money and headaches. Take a look at some of the recordkeeping and financial differences:

### With an Employee

- You must pay the employer's half of FICA, as well as federal unemployment tax (FUTA).
- You are required to withhold federal income tax and the employee's half of Social Security and Medicare (FICA).
- You must issue a W-2 form to the employee and send copies to the IRS.
- Depending on your company's policies and state and federal laws, you must generally provide fringe benefits such as health insurance, retirement plans, sick days and paid vacations.
- You are generally required to carry workers' compensation insurance and other insurances.

When you compare the two, hiring subcontractors could be a better fit for your company. However, you should make sure your independent contractors really qualify for this status under the law. Your company can pay a heavy price if you treat an employee as an independent contractor without having a "reasonable basis" for doing so.

The IRS, DOL and other federal and state agencies routinely reclassify contractors as employees and the costs can be devastating to business owners. You may be required to pay a bundle in unpaid payroll taxes, benefits, interest and penalties.

Caution: There have been several highly publicized lawsuits filed against companies by independent contractors who claimed they were really employees. Disgruntled workers contact the IRS or DOL to complain that they are misclassified. This can open the floodgates to major problems for a company.

The issue is complicated, so consult with your CPA or contact us with questions.

A rule of thumb is workers are considered contractors if you have little control over the way they get the job done. The more you direct a worker, the more likely the IRS is to classify him or her as an employee.

Unfortunately, no single factor determines a worker's legal status. The IRS looks at a number of issues, such as:

- Provision of tools: An employer usually gives tools, equipment and workspace to employees. In contrast, subcontractors often provide and invest their own money in equipment, tools and facilities.
- Offering services to the public: Subcontractors make their services available to the general public and are free to work for two or more businesses.
- Setting hours: Employees often have set work schedules, while contractors are allowed some flexibility. However, the IRS recognizes that some work, by its very nature, must be done at specific times.
- Hiring assistants: Employees don't hire and pay anyone to help them do their jobs. But contractors often hire, supervise and pay their own assistants.
- Pay schedule: Employees are generally paid hourly or weekly, while contractors are paid by the job. It's a good idea to require contractors to submit invoices since they

provide proof of non-employee status.

To protect your company, it's crucial to have written contracts with outside workers that clarify details of the relationship. Once you draft contracts that treat workers as independent contractors, live up to them. Resist the urge to supervise subcontractors the way you oversee employees.

Make sure to maintain good records. Obviously, you need to keep the worker's taxpayer ID number and other information required by the IRS, but you should also keep items that help prove the person is self-employed (for example, business cards, a letterhead, invoices and record of advertisements placed online or in newspapers).

Your use of independent contractors should always be examined on a case-by-case basis and if they are to be treated as a subcontractor, there should be a legal document that

### With an Independent Contractor

- You generally don't have to withhold taxes from the worker's pay, you don't owe the employer's portion of FICA and FUTA and you don't have to pay workers' compensation.
- It is easier to engage workers for specific, short-term assignments so tailor work crews to fit your slow and busy seasons.
- You must issue the worker a Form 1099-MISC and file copies with the IRS if you pay the person \$600 or more during the year.
- You aren't required to provide fringe benefits. Subcontractors are responsible for keeping their own records, paying their own income and self-employment taxes and providing their own health insurance.
- You can reduce exposure to some types of legal actions, such as wrongful termination lawsuits.

outlines their duties and responsibilities. This document should be drafted or reviewed by an attorney who is familiar with construction law and signed by both parties.

The possible cost of misrepresenting employees as independent contractors can be staggering and could close a profitable company. Be sure that your company is not ruined by a misclassification.

Joseph A. Hardick, CPA, CCIFP is a tax partner with Dannible & McKee, LLP, a Syracuse, NY-based public accounting firm with more than 90 professionals. The firm has specialized in provided tax, audit and accounting service to the construction industry since its inception in 1978. For more information on this topic, you may contact them at 315.472.9127 or visit [www.dmcipas.com](http://www.dmcipas.com). ■



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## Five Star Equipment celebrates state-of-the-art facility opening in Buffalo, NY market

Center with scissors (L-R): Owners Bill Bo-chicchio, Sr. and Frank Gallo are flanked by senior Five Star employees and John Deere executives, as well as other OEM representatives for the official ribbon cutting of the new facility in Orchard Park, NY.

Photos and coverage by Colleen Suo

Founded in 1980 by business partners Frank Gallo and Bill Bo-chicchio, Sr., [Five Star Equipment](#) has evolved from humble beginnings into a major player in the municipal and general contracting markets in New York and Pennsylvania. The company currently has eight locations serving 57 counties within the two states and is a premiere John Deere construction and forestry equipment dealer enjoying a 35-plus year relationship with the construction and forestry equipment icon.

Five Star Equipment is in the midst of a five to seven year expansion plan with a view to update existing branches with renovations or construct brand new facilities where warranted.

For the official grand opening of the newly constructed state-of-the-art facility in the Buffalo suburb of Orchard

Park, NY, Five Star Equipment held a celebratory open house on June 12. Director of Marketing Patricia O'Brien explained the new building is "a 25,000 square foot facility that is truly state-of-the-art for our industry." Within the repair and maintenance shop there are two 10-ton hoist cranes "so we can repair virtually any size piece of heavy construction or forestry equipment — whether it's John Deere or has any other name attached to it."

Other flagship brands in the Five Star corral include Hitachi, Bomag compaction, Fecon and Topcon GPS grading systems.

Currently, the employee group at the new facility is about 20 people. O'Brien continued, "We're looking to provide state-of-the-art facilities that not only benefit our customers but also benefit our employees. Our employees are so

proud and excited to come into work each day. We have a well-organized parts department housing a vast inventory of parts, which helps our customers. They can come in, pick up their parts and get back to business."

The parts department counter is located in the main lobby and consists of three ultra modern computer stations equipped with parts inventory software to insure up-to-date in-house supply counts of every part they carry. The cutting edge system allows for quick servicing of customers who can't afford to lose important repair time.

CEO Bill Farrell is leading the resurgence of the company, taking it up a notch. Although Farrell came from a completely different background than construction, it's obvious partners Gallo and Bo-chicchio made the right choice to lead this major overhaul and expansion project.

The expansive seven-bay repair and maintenance shop houses two 10-ton hoist cranes, allowing the ability to repair virtually any size piece of heavy equipment.





Budd Greevy also specializes in Topcon Grade Control sales and was on hand to assist any of the guests who wanted to experience the current technology.



Farrell said, "I've been with the company for three years as the CEO and it's been an interesting journey. The reason we're investing in the Buffalo market first is that it is one of the largest markets within the area of our responsibility. The Orchard Park facility was dated and needed to be renovated — but when we looked at the options of renovating or building a new facility, we opted for building new. We thought from a customer point of view and employee point of view. Making the investment at this time in this marketplace was key to Five Star's future success."

Construction of this new facility was on the heels of remodeling the Dunmore, PA, branch. They are currently working on the remodel of the Corporate Center building, which is located on the same property in Dunmore. The Orchard Park location is the first of the new buildings to be completed and was designed from the ground up to meet and exceed the service and parts needs of Five Star Equipment's customers in the Buffalo market.

Farrell said, "We just completed a significant renovation in Dunmore, Pennsylvania, which is where our headquarters are. We just broke ground in Syracuse, New York, for a brand new facility being constructed there and we're looking for a new location in Rochester, New York, where we hope to break ground for a new facility next year. And then we're going to continue through the rest of our locations over the course of the next several years."

All locations sell, rent, service and provide parts support. Farrell continued, "We not only service in the shop, but we have a number of vehicles that travel to customer job sites to do repairs. It is not always convenient to bring equipment here — especially in regard to production-class equipment — so we bring the repair capabilities to the job sites."

O'Brien said the event was months in the planning and throughout the day, excited



Hitachi is among the other flagship brands sold, rented and serviced by Five Star Equipment.

customers filtered in to enjoy a behind the scenes look at the new facility and take part in a catered barbecue lunch. Outside in the expansive yard, all manner of equipment was on display with OEM representatives on hand to answer any questions. They also had a demo area set up for the Topcon GPS grading system. Five Star's Territory Sales Manager for the Williamsport, PA branch, Budd Greevy, also specializes in Topcon Grade Control sales and was on hand to assist any of the guests who wanted to experience the current technology.

Bill McDonald is the general manager of the Orchard Park location as well as the Waterford, PA, location, which services the Erie market. "What we did here was build on the same property, behind the old facility. This way we were able to function as a dealer, right here, fully until we were ready to move into the new facility." The original facility was purchased in 2004 and was demolished in April of this year after moving into the newly constructed building.

McDonald said with the upgrade and expansion program, Five Star Equipment is looking to expand their clientele within all their markets. They are fully staffed to meet the needs of the expansion. He explained the company's HR department is being proactive in recruiting to "stay ahead of the curve in order to add to the pipeline." Anticipating the need for skilled technicians and service personnel in the future, the company is "always looking to grow as a whole. The HR department actively works with SUNY Cobleskill [College of Agriculture and Technology] and with Penn College [of Technology] in Williamsport [PA]."

Several executives from John Deere's headquarters in Moline, IL, were on hand at the event to celebrate the grand opening. Representatives from many of the other flagship brands were also available to showcase their latest equipment and to answer questions as needed. ■



Mark Germain (center), John Deere's director of world wide retail channel development, poses with long-time dealers (L-R) Bill Bochicchio Sr. and Frank Gallo.

# Ransome Attachments brings Gyru-Star screening bucket to U.S.

LUMBERTON, NJ – Ransome Attachments has inked a deal to distribute the UK-based Gyru-Star compact screening bucket in the United States. The company anticipates strong demand, especially from its landscaping, forestry, pipeline and utility construction clients.

“Many of our customers are looking for cost-effective attachments that can do more with less,” said owner Eric Ransome. “The Gyru-Star is a perfect complement to our attachment lineup because it not only delivers in these areas, but also brings a slew of additional features at a competitive price point.”

The Gyru-Star screens soils, aggregates, sand and compost without the need for shredding or crushing. The screenings can be used for backfilling, stockpiling or pipe bedding, retaining oversized materials that can be dumped elsewhere. While there are several soil screening systems on the market, the Gyru-Star is unique because it is designed specifically for compact excavators ranging from 2,000 to 50,000 lbs, in addition to compact wheel loaders, skid steers and agricultural tractors.

The key to the Gyru-Star’s design is its rows of rotating polyurethane stars that separate rocks and vegetation from the material to be screened. The unique shape, flexibility and spacing of the stars also eliminates the potential for clogging. The Gyru-Star, while engineered for durability

with high grade and Hardox steel, is best suited for landscaping and smaller scale contracting applications. The higher the quality of the source material, the greater the productivity. Even a 6,000-lb excavator or skid steer can produce hundreds of cubic yards per day using the smallest models in the Gyru-Star line, while the larger buckets are capable of churning out over 1,000 to 2,000 cubic yards per day.

The Gyru-Star’s polyurethane stars have proven to wear better than steel in many applications and they also make the bucket much lighter. Despite its large screening area, the Gyru-Star is small enough to be transported in the bed of a compact pickup truck.

Another key differentiator is the hydraulic requirement of the Gyru-Star. Many screening buckets require a double-acting hydraulic circuit whereas the Gyru-Star makes use of a standard single-acting hammer circuit. It also does not require a case drain line, and skid steer-compatible models come plug and play ready from the factory.

“After many years of manufacturing in the UK we are very excited to be launching the Gyru-Star across the U.S and Canada and sharing the great profit-making possibilities,” said David MacLynn of Gyru-Star. “Even the most modest of businesses should be able to benefit from our technology.” ■



Ransome Attachments now offers the UK-manufactured Gyru-Star compact screening bucket in the United States.

Photo courtesy of Ransome Attachments

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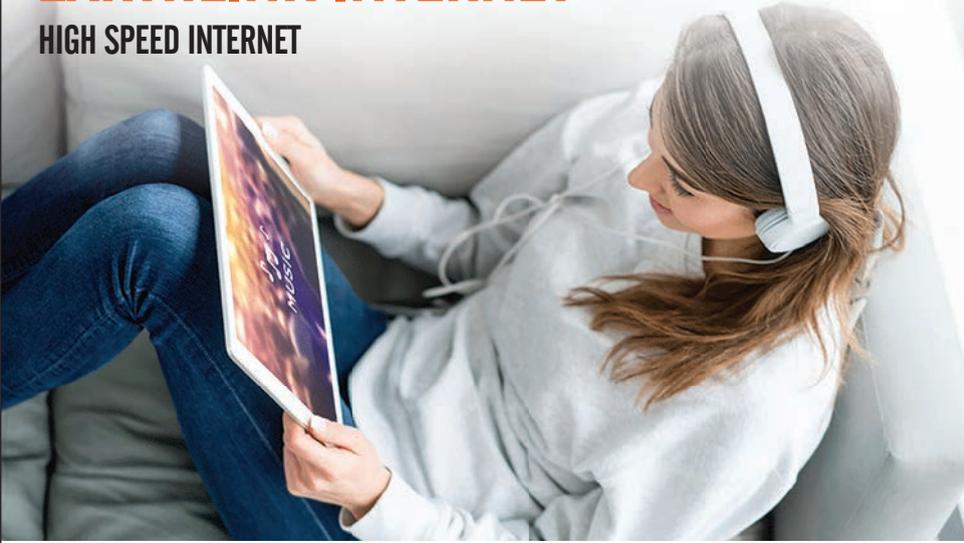
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# Metso launches a new model to the Lokotrack Urban series crushing and screening plants

Metso has expanded its community-friendly Lokotrack® Urban™ series mobile crushing and screening plant range. With its advanced protection features, the Metso Urban solution significantly restricts noise and dust emissions compared to conventional crushing, enabling more sustainable construction operations in cities.

“Transporting aggregates to a construction site in a city center from a distant quarry is costly, both in terms of energy and time. At the same time, rapid urbanization pushes crushing operations closer to city centers. Our customers are turning to us for solutions to avoid unnecessary hauling and to minimize the impact on people and the environment. The Metso Urban solution was developed to enable crushing operations in the most regulated urban areas, while actively protecting both employees on site as well as people living nearby,” said Kimmo Anttila, vice president, Lokotrack Solutions at Metso.

### Most sustainable solution in the market for urban crushing

The Metso Urban solution combines Metso’s proven crushing technology with modern environmental and safety features to produce a unique machine. The latest addition to the series, the Urban LT96 is ideal for small to mid-sized contractors crushing and recycling demolished concrete on site. Launched in 2017, the Urban solution is also available for the electrically driven LT130E model, the LT120 and the LT106/S, one of Metso’s most widely used mobile crushing plant models in the market.

The Lokotrack Urban Series crushing and screening plants introduce innovative and patented solutions that enable the combination of effective noise protection with easy maintenance access. The noise protection distances can typically be reduced by 50-60% compared to traditional crushing plants operating in hard rock applications.

### Built-in environmental features comply with regulations

Crushing within cities is becoming more tightly controlled through environmental and safety regulations that vary from country to country. The Metso Urban series is equipped with integrated features to fulfill some of the most critical of requirements, which are especially beneficial when it comes to obtaining environmental permits for short-term crushing operations.

“We believe that sustainability and operational flexibility should and can be built into the same solution. Feedback we have received from the field supports the fact that using Metso Urban solution has a positive impact on the permit process. Our target is that the Urban will help our customers tap new business opportunities sustainably,” Anttila concluded. ■



The Urban LT96 is ideal for small to mid-sized contractors crushing and recycling demolished concrete on site.

Photo courtesy of Metso

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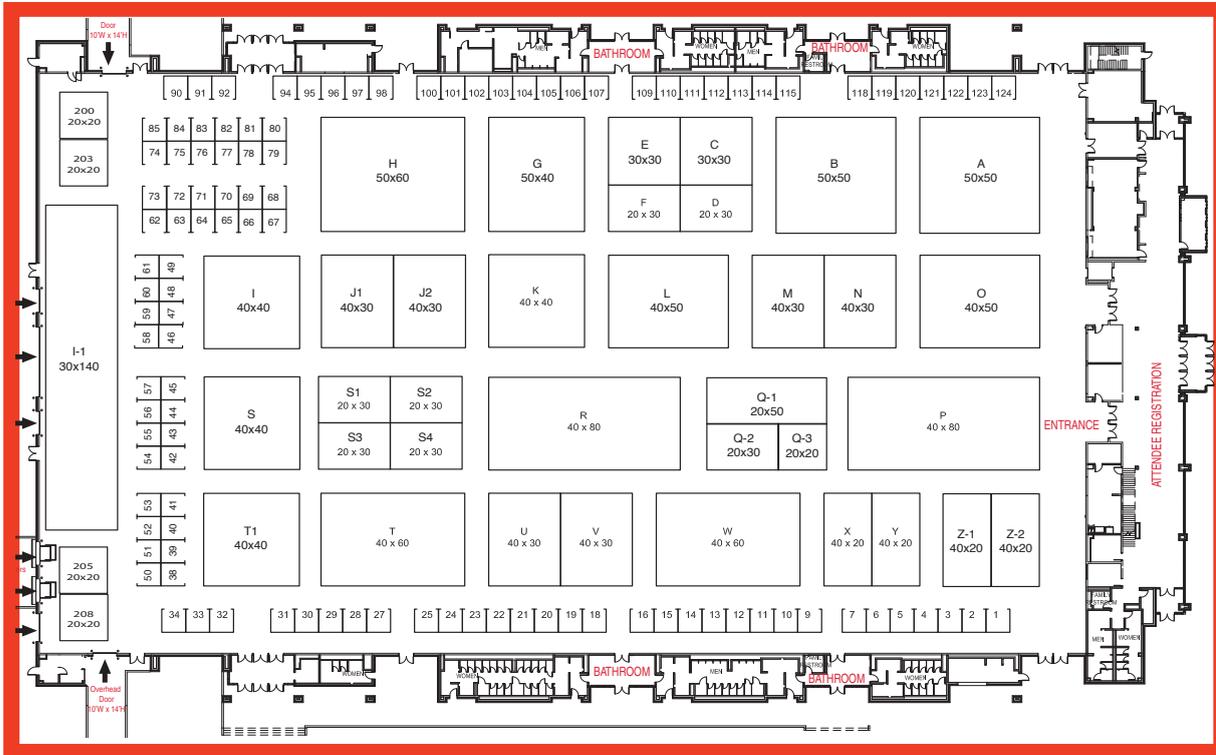
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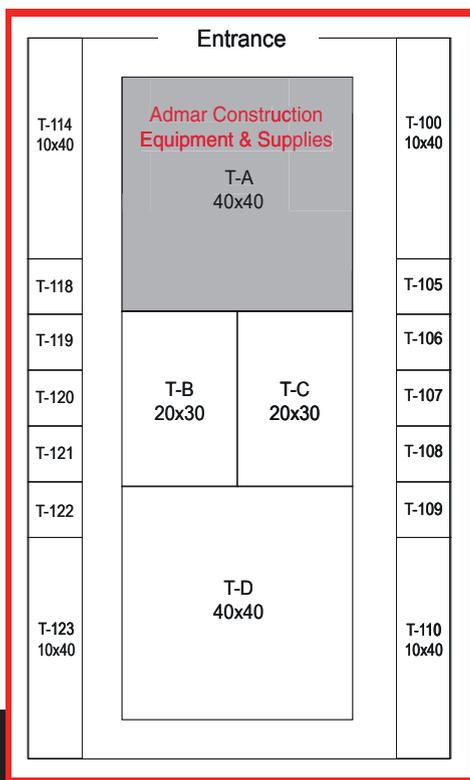
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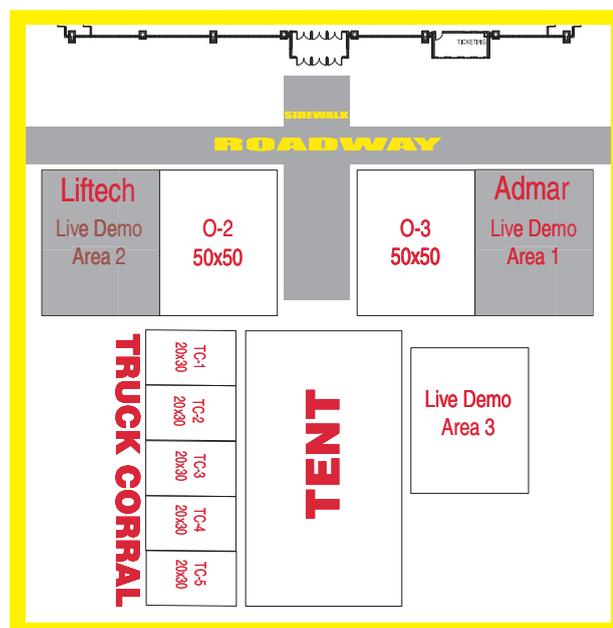
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## Enerpac's jack-up system used for Elvira railroad bridge span replacement



The river below the bridge had a strong current in an area utilized by recreational kayakers and rafters.

Photo courtesy of Enerpac

The Elvira railroad bridge, built in 1906, spanned the Cahaba River in Helena, AL. The old double-track open deck superstructure had reached the end of its useful life and was scheduled for replacement with a new single-track ballasted deck superstructure. Burkhalter, lifting, rigging and transport professionals, was selected to execute the replacement of Span 2 over the river.

An initial challenge of the project was the location of the bridge. The river below the bridge had a strong current in an area utilized by recreational kayakers and rafters. With focus on safety, the team created a plan to build the new bridge in a specific area that would allow for an efficient transport onto the old span.

The team approach to the heavy move was to utilize their BPU-750 Jack-up system supplied by Enerpac. The old span weighed 1.1 million pounds and was 180' L x 35' W x 43' H. The new span weighed 1 million pounds and was 180' L x 19' W x 13.5' H. The jack-up, a multi-point hydraulic lifting system, uses an incremental stage-lifting principle. The lifting frame of each jack-up unit contains four hydraulic cylinders, one in each corner, which synchronously lift and stack steel barrels, forming lifting towers. For this application, two of the four bases of the jack-up system were set on opposite sides of the river.

Creatively, the team transported the new railroad span onto the old bridge using 24 lines of Goldhofer E-Steer SPMT with 90-degree traverse movement capability to align the span with the railroad track. A mat road was built across the old railroad bridge so that the weight of the transporters and the new span were evenly distributed during transportation. The team designed, fabricated and provided specialized beams and transferred the weight of the new span down to slide shoes mounted on girders affixed to the jacking system to receive the weight of the new span since the old span could not support the weight of the new span and the transporters carrying it.

Using the SPMT hydraulics, the new bridge weight was transferred onto the old bridge. The jack-up system formed the four towers system supporting this double bridge setup from below. The team utilized its synchronized slide system powered by Enerpac strand jacks to side-shift both bridge spans in order to line up the new single-track railroad line that replaced the old two-track line. Upon alignment, the new span was then lowered into place with Enerpac's BPU-750 jacking system while simultaneously lowering the old bridge. Lastly, the old span was additionally lowered and removed.

"The project required a unique creation of engineering and craftsmanship to develop and provide a method to transport and set the new bridge in place while lowering the old bridge, all in one operation," said Christine Burkhalter. "We have worked with Enerpac on past projects that needed a specific solution. We continue to be impressed by their willingness to develop systems to meet our specifications." ■



The team transported the new railroad span onto the old bridge using 24 lines of Goldhofer E-Steer SPMT with 90-degree traverse movement capability to align the span with the railroad track.



Upon alignment, the new span was then lowered into place with Enerpac's BPU-750 jacking system while simultaneously lowering the old bridge.

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## Industry news

# Volvo CE enters 20-ton class excavator market with new EC200E



The new EC200E crawler excavator from Volvo Construction Equipment gives customers a new option between Volvo's 16- and 22-ton machines.

Photo courtesy of Volvo CE

The new EC200E crawler excavator from Volvo Construction Equipment gives customers a new option between Volvo's 16- and 22-ton machines – a 20-ton class excavator that offers strong performance and comes without the added features and cost of a larger excavator.

"This machine's size and price point make it a great new option for rental yards and for owners of smaller fleets looking to move up to take on bigger projects, particularly those in the building segment," said Sung Sook Kim, product manager excavators at Volvo Construction Equipment.

### A strong addition

The EC200E is a new class size in Volvo's North American crawler excavator lineup between the EC160E and EC220E. It was designed primarily for customers who need a light- to medium-duty digging excavator. The EC200E has a maximum digging reach of 32 ft, 9 in and a maximum digging depth of 22 ft, 3 in, with a lifting capacity of 16,138 lbs.

The EC200E is fitted with X1 hydraulic piping and has an attachment management system that allows for pre-setting hydraulic flow and pressure for up to 20 attachments. The machine is equipped for quick couplers, which makes it easier to swap out attachments quickly.

Additional features include:

- The ability to transport it on a trailer without additional permits, as opposed to larger machines
- Auto idling, auto engine shutdown and ECO mode for increased fuel efficiency
- Service-friendly features like grouped filters and single-layer cooling systems are easily accessible from ground level
- ROPS cab, high-visibility handrails, anti-slip steps and easy access to the machine via the right-hand side
- Integrated work modes incorporate engine rpm and hydraulic flow into a single dial, allowing operators to easily get the perfect balance of power and controllability
- New 8-in LCD display
- Tier 4 Final D4 Volvo engine

### Reliable support

Like all Volvo excavators, the EC200E is backed by the

Volvo Lifetime Frame and Structure Warranty, which covers the frame, boom and arm for the entirety of the initial period of ownership. It is also eligible for a free year of ActiveCare Direct®, the 24/7/365 active machine monitoring and fleet utilization reporting service offered directly from Volvo.

The EC200E also comes with the Volvo Fuel Efficiency Guarantee. If the machine's fuel consumption and productivity do not meet model-rated efficiency levels, Volvo will reimburse a portion of the additional fuel. ■



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## New offerings from Brokk

### Brokk 170 offers 15% more power while retaining compact build

Brokk recently introduced the Brokk 170. With SmartPower™ – the company's signature intelligent power management system – the new machine offers 15% more power than its predecessor, the Brokk 160, but retains the same compact dimensions.

The Brokk 170 is one of four new next generation Brokk remote-controlled demolition machines Brokk launched at this year's World of Concrete in Las Vegas.

"Contractors work in some of the most confined spaces and to get their jobs done successfully they can't sacrifice power or safety," said Martin Krupicka, president and CEO of Brokk Group. "That's why maintaining the same footprint as the former model and boosting the machine's power was a must. This new machine truly tests the limits of compact power."

The Brokk 170 incorporates the revolutionary new SmartConcept™ system, which ensures improved performance and uptime. SmartConcept consists of three features: SmartPower, SmartDesign™ and SmartRemote™. SmartPower senses when the power supply is poor or faulty then compensates before damage to components occurs. This allows contractors to use the machine with generators or unreliable power sources.

SmartDesign extends machine life and provides unprecedented ease of maintenance due to 70% fewer cables, hardened components, LED headlights and easily accessible grease points and hydraulic hoses. An ergonomic remote-control, the SmartRemote, incorporates adjustable straps, intuitive controls and professional-grade radio technology with a 984-ft (300-m) working range.

Brokk equips each Brokk 170 with a 452-lb (205-kg) BHB 205 hydraulic breaker to deliver 299 foot-pounds (406 joules) with each blow. The machine can be paired with a wide variety of attachments for added versatility, including buckets, clamshell buckets, concrete crushers, grapples and metal shears.

As with all Brokk machines, the Brokk 170 offers superior reach and movement. The three-part arm extends to 16 ft (4.8 m) vertically and 14 ft (4.4 m) horizontally. The machine also features 360 degrees of continuous rotation for optimal versatility on the jobsite.

Brokk 21



The new machine offers 15% more power than its predecessor, the Brokk 160, but retains the same compact dimensions.

Photos courtesy of Brokk



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## Genesis Attachments hires Powell as Heartland regional manager

Genesis Attachments announces Jeff Powell has joined its sales team as regional manager of the newly created Heartland territory.

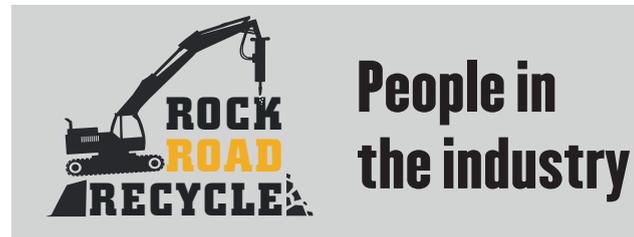
Covering Colorado, Nebraska, Kansas, Oklahoma, Arkansas, Missouri and Southern Illinois, Powell will provide attachment, parts and service sales and application support to the demolition, scrap and material handling industries. He will also manage Genesis' dealer presence in the territory.

Powell has worked in the heavy construction and agricultural industries for more than 20 years and brings product and sales management, new product development, service training and service parts product management experience to Genesis. ■



Genesis Attachments announces Jeff Powell has joined its sales team.

Photo courtesy of Genesis Attachments



### Brokk from 20



The Brokk 300 is one of four new next generation Brokk remote-controlled demolition machines.

### Brokk 300, a next generation demolition robot

Also recently introduced, the new Brokk 300, which features 40% more demolition power than its predecessor, the Brokk 280. It also boasts Brokk SmartConcept™ technological features that improve power management, reliability, maintainability and ergonomics.

The Brokk 300 is one of four new next generation Brokk remote-controlled demolition machines Brokk showcased at World of Concrete 2019 in Las Vegas.

"This new machine features a truly impressive power-to-weight ratio and the industry-leading smart technology," said Martin Krupicka, Brokk Group CEO. "The design shows our engineers' responsiveness to operators' ever-increasing demands for using bigger, more powerful breakers without sacrificing safety or maneuverability or taking up more space on the jobsite."

Like its predecessor, the mid-sized Brokk 300 is just 47.2 in (1.2 m) wide, but can handle larger attachments weighing as much as 1,102 lbs (500 kg).

With Brokk's new SmartConcept system, operators also experience improved performance and uptime. SmartConcept consists of three features: SmartPower™, SmartDesign™ and SmartRemote™. The intelligent electrical system, SmartPower, protects the machine from the damage that can be caused by poor power supplies while optimizing power and hydraulic performance in extreme temperatures. SmartDesign extends machine life and provides unprecedented ease of maintenance due to 70% fewer cables as well as hardened components, LED headlights and easily accessible grease points and hydraulic hoses. An ergonomic remote-control box, the SmartRemote, incorporates adjustable straps, intuitive controls and professional-grade radio technology with a 984-ft (300-m) working range.

As with all Brokk machines, the Brokk 300 offers exceptional reach and movement. The three-part arm extends to 21 ft (6.5 m) vertically and 20 ft (6 m) horizontally. The arm also rotates 360 degrees for optimal flexibility.

Brokk outfits each Brokk 300 with a BHB 455 hydraulic breaker with 855 joules of hitting power. The machine also pairs seamlessly with beam grapples, clamshell buckets, concrete crushers, demolition and scoop buckets, drills, drum cutters, metal shears, planers, rock splitters, shotcrete nozzles, sorting grapples and rock splitters. ■

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## Engcon's new sorting grapples: Stronger, better suited

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

Photo courtesy of Engcon

## John Deere adds backhoes to its attachments lineup

MOLINE, IL – John Deere is unveiling three new backhoe attachments to complement its full lineup of attachments. The BH9B, BH10B and BH11B were designed for operators handling light construction, agricultural, landscaping or utility work. Similar to other John Deere attachments, these backhoes are ideal for use on John Deere G-Series skid steers and compact track loaders.

"With the growing need for work in compact spaces, these new backhoe attach-

ments provide contractors, landscapers and agricultural material handlers with the power and variety to tackle any job efficiently and swiftly," said Jason Simmons, attachments engineering supervisor, John Deere Construction & Forestry. "The new lineup of backhoe attachments is designed to provide power with improved hydraulics and sleek design to operators working across different job sites and applications."

The new backhoe attachments are ideal for those working in tight spaces by offer-

ing swing speed control and 180-degree capabilities to help maximize efficiency and improve machine stability. Workspace visibility is optimized with the attachments' sleek, low profile design. Cushioned cylinders allow for smooth operations and limit shock loads during use.

A two-lever control of boom or swing (left lever) and dipperstick or bucket (right lever) allow for precise control and movement. Each new backhoe model includes a 34-45 liters/minute (9-12 gallons/minute) hydraulic flow range for smooth operation. The new backhoes provide different levels of maximum dig depths ranging of 2,945 mm (110 in) on the BH9B, 2,945 mm (116 in) on the BH10B and 3,380 mm (133 in) on the BH11B. The BH model bucket widths range

from 455 mm (18 in) to 915 mm (36 in); the new and improved heavy-duty buckets feature an easy-cleanout design for the toughest jobs. BH10B and BH11B buckets offer three linkage positions to maximize curl, reach or breakout force. Breakout force on the BH9B is 1,765 kg (3,895 lbs), 2,575 kg (5,675 lbs) on the BH10B, and 2,575 kg (5,675 lbs) on the BH11B, for the toughest of jobs.

For increased versatility, the backhoe standard-tilt seating capabilities offer easy moving between machine ingress and egress. The backhoe also has a convenient grab handle and open design for convenient maneuvering.

The new backhoe attachments are backed by John Deere parts, service and warranty coverage. ■



John Deere is unveiling three new backhoe attachments to complement its full lineup of attachments.

Photos courtesy of John Deere

Similar to other John Deere attachments, these backhoes are ideal for use on John Deere G-Series skid steers and compact track loaders.

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# Doosan Infracore North America introduces three new models to expand its mini excavator offering

Doosan Infracore North America LLC is bolstering its mini excavator lineup with the addition of three new models in the 3.5-, 4- and 5-ton classes: the Doosan® DX35-5, DX42-5 and DX50-5.

Doosan now offers its U.S. and Canadian customers a wider range of excavators – from 3.5 to 50 tons. The updated Doosan mini excavator line now includes the popular 3.5-, 4- and 5-ton size classes, complementing the existing DX63-3 and DX85R-3 models.

“Doosan customers expect high-performing, productive and reliable machines when they see the Doosan orange,” says Aaron Kleingartner, marketing manager for Doosan Infracore North America. “Now our customers who need a 3.5-, 4- or 5-ton mini excavator can purchase, lease or rent a machine from their local Doosan construction equipment dealer.”

The expanded mini excavator line allows Doosan dealers to provide a wider range of products to their customers. “We hope with the additional models, our Doosan dealers will have the ability to grow their businesses and be even more successful in their local markets,” Kleingartner said. “Also, it’s important to note that these three models will be manufactured in the United States for fast delivery to our U.S. and Canadian dealers and customers.”

## Comfort features

Doosan DX35-5, DX42-5 and DX50-5 mini excavators will each be available with an enclosed cab, including heat and air conditioning or an open canopy configuration. Both configurations allow for excellent all-around visibility, especially to the excavator’s attachment.

A standard suspension seat provides all-day comfort for operators, while a strategically positioned deluxe instrument panel provides valuable machine information for operators. A standard keyless start system helps to reduce unauthorized machine use and theft.

Customers can choose between a standard arm or a long-arm option. The long-arm option gives operators more dig depth and reach and reduces the amount of machine repositioning for enhanced productivity. A blade comes standard with all three new models, and an angle blade is available as a factory option. An angle blade makes it easier for mini excavator operators to perform backfill tasks more efficiently, as well as create slopes and swales.

## Attachment offering

All three new Doosan mini excavators can be equipped with a quick coupler, bucket and thumb attachment package. Quick couplers allow mini excavator operators to easily change attachments to match the trenching task to the desired bucket width, minimizing over-digging. A thumb is a popular attachment to use with a bucket to effectively grab, lift and place items, such as debris in site preparation or hardscape materials for a landscaping project.

*Doosan now offers its U.S. and Canadian customers a wider range of excavators – from 3.5 to 50 tons.*



Operators have access to 17 to 20 gallons/minute of auxiliary hydraulic flow, depending on the model, to provide power to other attachments, such as augers, breakers and plate compactors.

## DX35-5

The new Tier 4-compliant DX35-5 is now the smallest Doosan mini excavator available. This 3-ton class excavator is designed with zero tail swing, which makes it an ideal machine for operating on congested jobsites and working next to other objects. A dual flange track roller system gives the machine greater over-the-side digging capacity, exceptional slewing and a smooth, comfortable ride. A roomy cab adds to operator comfort and tall, wide windows provide the operator with excellent visibility for enhanced productivity and safety.

## DX42-5

The conventional tail swing, Tier 4-compliant DX42-5 has strong bucket breakout force, dig depth and reach in a highly maneuverable excavator in the 4- to 5-ton class. Its relatively narrow width for a machine in its class provides operators greater ability to navigate through doorways, gates and other obstacles.

## DX50-5

The 4- to 5-ton size class, Tier 4-compliant DX50-5 enables customers to operate in tight spaces with superior digging performance. It is a minimal tail swing excavator with less than 1 inch of tail overhang.

Authorized Doosan dealers are currently accepting customer orders for these new models, and machines are expected to arrive at dealerships in mid-July 2019. ■



*Doosan DX35-5, DX42-5 and DX50-5 mini excavators will each be available with an enclosed cab, including heat and air conditioning or an open canopy configuration.*

*Photos courtesy of Doosan*



*All three new Doosan mini excavators can be equipped with a quick coupler, bucket and thumb attachment package.*

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# ARTBA applauds U.S. District Court ruling that strikes down 2015 wetlands rule

WASHINGTON, D.C. – A May 28 federal court ruling in the Southern District of Texas striking down the federal government’s 2015 version of the Waters of the United States (WOTUS) rule is a win for the nation’s transportation construction industry and builders of other much-needed infrastructure, the American Road & Transportation Builders Association (ARTBA) says.

ARTBA and 13 other trade associations challenged the rule in July 2015. At issue is how the EPA and U.S. Army Corps of Engineers (Corps) decide which bodies of water are under federal jurisdiction. Under the Obama Administration rule, roadside ditches could have been subject to unnecessary federal oversight, delaying transportation improvements

and resulting in increased project costs.

In their lawsuit, the coalition of trade groups objected to how EPA drafted the rule. The groups said that in addition to distorting U.S. Supreme Court precedent, the agency “subverted the notice-and-comment process by (among other things) failing to seek comment on scientific reports relied on in the Rule and on major revisions of the proposed rule, conducting an inadequate economic analysis and engaging in an unprecedented advocacy campaign that led to a distorted and biased comment process.”

In the May 28 ruling, the judge agreed with the groups’ procedural arguments and decided the rule must be sent back to EPA because “those governed by the rule were

deprived of notice of a substantial change to our nation’s environmental regulation scheme.” The decision blocks enforcement of the 2015 rule in the states of Texas, Louisiana and Mississippi, but leaves it in place in 22 other states.

At the same time, the Trump Administration is in the process of both formally repealing the 2015 rule and finalizing a replacement WOTUS regulatory framework. ARTBA supports both those efforts. ■



**American Road & Transportation Builders Association**



## People in the industry

# ECA promotes Sciortino to northeast regional sales manager

BOSTON, MA – Equipment Corporation of America (ECA) has recently promoted Anthony Sciortino to northeast regional sales manager. He will manage all of the firm’s product lines in Massachusetts, Maine, New Hampshire, Connecticut, New Hampshire and Rhode Island.

Sciortino came to ECA when the company acquired New England Construction Products in 2015. He had been serving as a mechanic and sales representative at the time. Sciortino was named sales engineer in March 2015 and held that position up until now.

“Anthony is well-rounded with deep roots and in-depth knowledge of the New England market,” said Jeff Harmston, ECA’s VP – sales and marketing. “We’re looking forward to giving him greater responsibility to develop this region.”

Sciortino earned a Bachelor of Science in Construction Management at the University of Massachusetts. Although he enjoys golfing in summer and snowboarding in the winter, most of his free time is spent with family. ■



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Anthony Sciortino will manage all of the firm’s product lines in the New England states.

Photo courtesy of ECA



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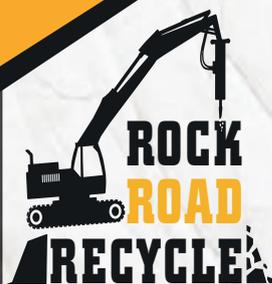
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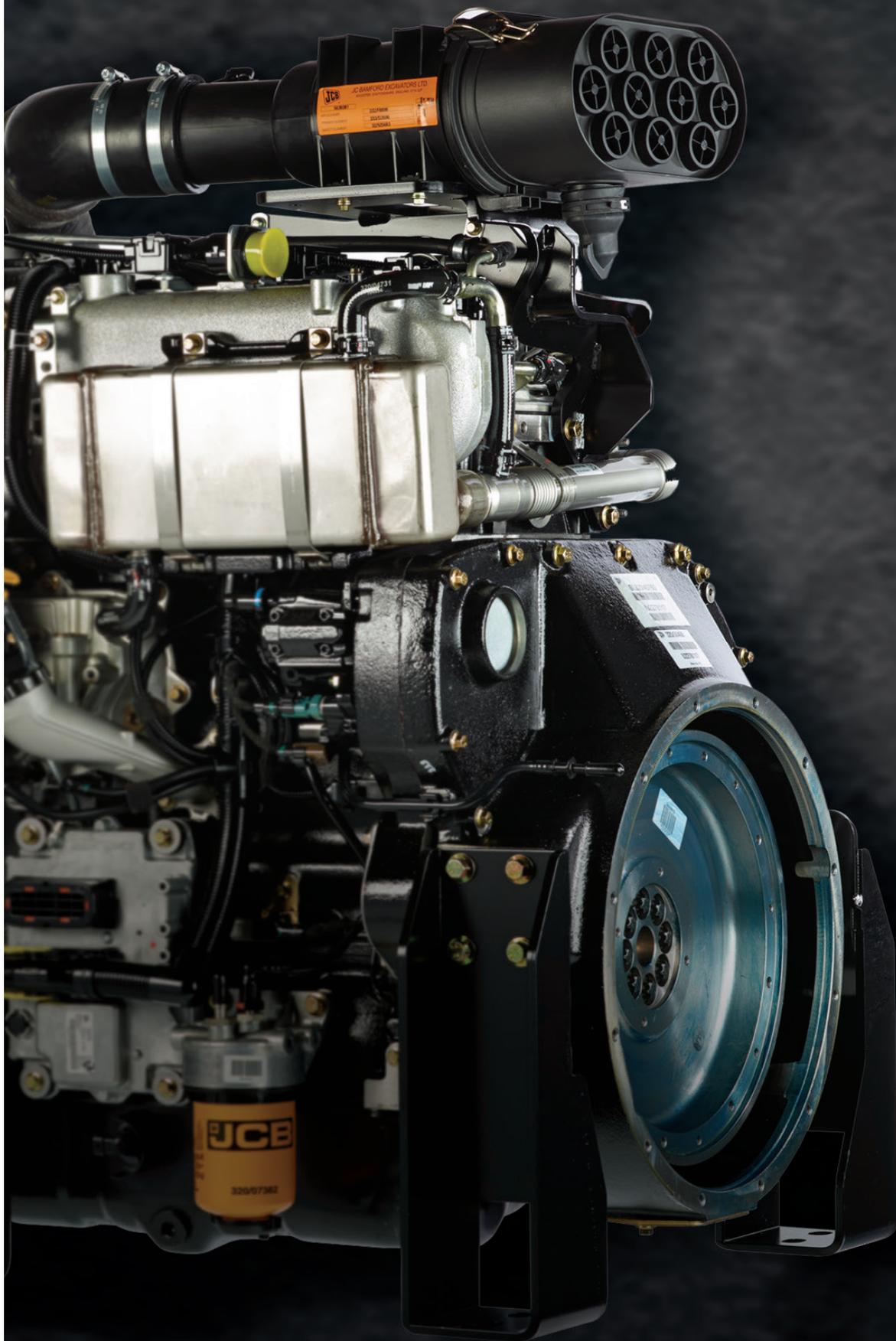


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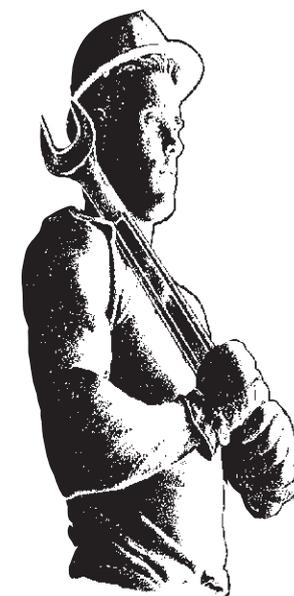
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# Aquajet Systems upgrades its Aqua Cutter hydrodemolition robots with versatile Super Lance 3000

MONROE, WA – Aquajet Systems AB recently introduced a new, more versatile lance system for its Aqua Cutter hydrodemolition robots. The Super Lance 3000 replaces the previous lance and allows contractors to use a single lance for any pressure up to 43,500 psi (3,000 bar). The modular system can be assembled in a number of configurations for any application. It also features a variety of longevity and performance improvements. The Super Lance is now standard on Aqua Cutter robots and can be retrofitted to older models.

“The lance is what the entire robot is designed around, so naturally we never stop researching and developing ways to improve it for our customers,” said Roger Simonsson, Aquajet Systems managing director. “The Super Lance is adaptable to a number of different applications and fits with existing Aqua Cutter robots, giving contractors another tool to make their businesses more efficient and profitable.”

Aqua Cutter hydrodemolition robots use the Super Lance to direct high pressure water at a surface, often to remove deteriorated concrete or to remove concrete to a pre-determined depth without posing risk of microfracturing or damage to the underlying rebar.

Unlike the previous lance system, which required switching lances depending on

the pressure, the Super Lance is capable of handling any pressure up to 43,500 psi (3,000 bar). This is because the system is the perfect balance between having a large enough bore-through hole for high-flow pumps and still being able to handle ultra-high pressure pumps. The improvement means contractors don't need to keep as many parts on hand or spend valuable time swapping out components. The system is highly modular, allowing for the best configuration for any job. Standardized ends allow components to attach in any direction. For example, if the nozzle needs to enter a narrow space it can be mounted in a 90-degree elbow.

The system also includes uniform threads and seals, regardless of configuration, and multiple fittings for different hoses, making the attachment compatible with any Aqua Cutter on the market. The uniform threads also mean less need for adaptors, which can lead to a risk of leaks if used.

Aquajet improved performance in the Super Lance by manufacturing it with a 1/2-inch (13-mm) bore-through hole and no change in diameter, helping water enter the nozzle without turbulence and not lose power.

The Super Lance also includes several longevity improvements. The lance itself is lined with ceramic, reducing wear on the



The system also includes uniform threads and seals, and multiple fittings for different hoses, making the attachment compatible with any Aqua Cutter on the market.

Photos courtesy of Acquajet

lance as it protrudes through the protective rubber below the hydrodemolition robot's hood. It is also thinner, meaning less wear on the rubber. Aquajet billet machined all pressure parts and added a longer lasting wear cap.

The Super Lance is equipped with Aquajet's unique ceramic nozzle specifically

designed for demanding hydrodemolition applications. The highly-efficient nozzles last 300-350 hours, depending on the water quality.

The Super Lance is available to be ordered as a kit containing the main system components for equipment retrofits. ■

## Doosan Portable Power expands small air compressor product line with high-pressure XP185 model

STATESVILLE, NC – Doosan Portable Power is expanding its small air compressor lineup with the introduction of the Doosan® XP185WDO. This high-pressure model produces



This high-pressure model produces 185 cfm and 125 psi.

Photo courtesy of Doosan Portable Power

185 cfm and 125 psi, making it ideal for a variety of applications such as general construction, sandblasting, pneumatic tool operation, pipeline testing and fiber optic cable installation.

“Our customers have expressed a need for an air compressor that produces 125 psi and delivers the same productivity and reliability they receive from our popular P185 machine – we're meeting that demand with the new XP185 model,” said Jeremy Bailey, air products manager, Doosan Portable Power.

The XP185 can simultaneously power both air and electrical tools when outfitted with an optional 4kW generator. The machine is equipped with two 120V duplex outlets with easy access on the curbside, rear panel of the air compressor.

“Many of our customers are also using small electric or rechargeable battery-powered tools and 4kW of generator power is enough to charge those tools or even a cell phone while on a remote jobsite,” Bailey said.

An onboard toolbox allows for convenient storage of both air-powered and electrical tools for safe transport and easy access on the jobsite.

Powered by a 74-hp Tier 4 Final-compliant engine, the XP185 provides reliable productivity and fuel efficiency that adds money to your pocket instead of your fuel tank. The high-performance Doosan D24 engine features a DOC aftertreatment system that is virtually maintenance-free.

The XP185WDO maximizes jobsite productivity with a 10-hour runtime at 100% load. Dependable even in extreme temperatures, the XP185 provides a limited ambient temperature of 125°F, helping to ensure uptime in hot conditions.

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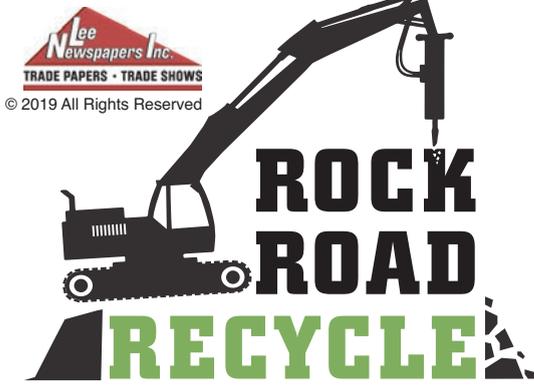


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# Recycling the Brackenbox Inc. way

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## Recycling the Brackenbox Inc. way

by RockRoadRecycle Staff Writer

On the Cover: Representing Midwest Crushing and Screening are (L-R) President Tim Scannell, Service Manager Ruben Bautista, Parts Manager Josh Franklin and Sales Manager Joe Peters.

Photo courtesy of Brackenbox Inc.

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## New Pitbull grizzly screen an economical option for small- to mid-sized contractors



The compact screen is a smaller version of the popular PB148.

Photo courtesy of Pitbull

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LAKE CITY, PA – Lake Erie Portable Screeners introduces the heavy-duty Pitbull PB678 static grizzly. The compact screen is a smaller version of the popular PB148 for added jobsite versatility and pairs well with the Pitbull 2300 screening plant, making it an economical option for operations looking for a compact solution to sort oversize material on a reduced scale. The PB678 static grizzly includes features for easy bar removal or adjustments as well as transportability. It is ideal for a wide range of industries, including aggregates, mining, scrap, excavation, demolition, forestry and landscaping.

“There is no one-size-fits-all when it comes to the jobsite; we try to supply heavy duty products in a variety of sizes to help operators find the perfect fit for their needs,” said Stuart Foradora, Lake Erie Portable Screeners factory representative. “Our revolutionary setup allows customers to swap bars in minutes and lift lugs make transportation a breeze, making the PB678 an efficient solution for landscapers, municipalities, rental agencies and other outfits looking for a compact grizzly.”

Lake Erie Portable Screeners installs each of the screen’s 18 bars with two sets of bolts and nuts driven completely through the bar and support. Using only two bolts can save hours of time during bar spacing adjustments or replacements when compared with most competitive models that are either welded on or use three or more bolts that are often threaded through

a welded frame member. Not only does the additional bolt result in longer removal times, but the bolts will often rust and get stuck, requiring brute force to remove them or break them off.

The grizzly bars are also self-cleaning. Like most grizzly models, the PB678 features square steel tubes. But, unlike competitive bars that are flush with the edge of the grizzly’s frame, the Pitbull bars rest on an angle to create a diamond shape and tapered openings. This virtually eliminates material getting stuck between the bars – a common problem for other grizzly units.

Lake Erie constructed the grizzly with standard “D” ring lift lugs for ease of transportation and positioning. Crews simply attach chains to the lugs and lift the screen with a front-end loader, excavator or crane. Most other grizzly models don’t include lugs and require crews to find a way to safely secure chains through the screen before it can be lifted. With its compact size, the PB678 easily fits on smaller trailers that pull behind pickups or 1-ton rigs for easy transportation from one jobsite to the next.

Lake Erie Portable Screeners built the grizzly emulating the Pitbull 2300’s rugged, tubular frame construction. The nearly 2,500-lb screen includes an expansive 6-by-8-foot deck area and a 7’2” tip height. The bars are each 2 inches wide with 1/4-inch wall thickness and come with a standard spacing of 2-inch minus. Lake Erie offers additional bars if smaller openings are required. ■

# Recycling the Brackebox Inc. way

by RockRoadRecycle staff writer



Clean aggregate is produced at site from material that would have traditionally been seen as waste: CA1/CA16 and FA6.

In today's eco-conscious world, it is more important than ever for construction companies to focus on recycling materials that once would have been considered waste. Not only will recycling efforts help boost the image of the company, they will also reduce any negative environmental impact of any projects. Based in Markham, IL, one company, Brackebox Inc., has carved a niche providing specialist recycling services to construction businesses and communities alike, increasingly proving to be the specialist contractor of choice throughout Illinois and Wisconsin.

Established in 2008, Brackebox Inc. is now seen as one of the most important recyclers of construction materials in Illinois and Wisconsin. Licensed as a recycler of waste by the City of Chicago, the company sees its mission to help construction companies process materials that were once seen as waste. When possible, they turn the material into valuable products for use on the same construction project or for resale.

Brackebox believes that in today's eco-conscious world it is more important than ever to maintain a "green" image with any waste recycling efforts helping to boost the image of the company and reducing any negative environ-

mental impact on the world around us. From demolition to mining to deforestation, there are many environmental concerns that can surround construction projects, so it is beneficial to curb these effects by repurposing materials wherever possible. This desire is not only based on benefitting society – it also makes good business sense. Through helping to limit the amount of waste that accumulates inside landfills and reusing materials, what was once a cost (landfill, haulage, etc.) now becomes a revenue stream (soil, recycled aggregate, metals, etc).

## Reasons to recycle

Brackebox initially began business (and continues to this day) providing dumpster services. This now includes a highly professional demolition service and recycling operations, placing a great deal of emphasis on the use of recycling bins. As members of the CMRA, the company is dedicated to doing its part to sustain the environment. It is Brackebox's view that every business should give serious thought as to whether their current recycling policies are sufficient. This is not just construction materials, but applies to all aspects of business, including paper, plastic and metal recycling – not just being important for the environment but also for the business's bottom line.

One of the most compelling reasons for businesses to recycle as much waste as possible is that it keeps it out of the landfill. As a result of the decomposition of organic material in landfills, landfill gas is released. About 50% of landfill gas is methane, according to the Environmental Protection Agency, and methane is a highly destructive greenhouse gas. It's up to 36 times more effective at trapping heat in the atmosphere than carbon dioxide. "All businesses need to do their part to protect the environment," said Jim Bracken, founder of Brackebox. He continued, "Recycling nurtures a positive reputation for any company."

Recycling programs are of benefit for a company's reputation, with consumers preferring to do business with companies that have a positive socio-environmental image. If given a choice between a construction company that recycles as much debris as possible and one that doesn't, the typical homeowner would likely choose the company that prioritizes recycling. "Consumers and clients aren't the only ones who prefer companies with a strong environmental protection track record. A recycling program will also help your company attract top employees. Good pay is important to employees, but so is the company culture," added Bracken. "Recycling can directly affect a business's bottom line by reducing its waste disposal costs. The less waste you send to the landfill, the less you'll pay in landfill fees. Plus, you may even earn money back on some recyclables."

## Chicago-based recycling center

Brackebox now operates a recycling center in Chicago. This means that whether a business is working on a construction site, clean out or demolition project in Chicago, its roll off dumpsters can comprise a valuable component of the project, being ideal for removing waste for processing at the Brackebox center. Through making the commitment to recycle, businesses are doing their part to protect the environment and preserve natural resources that will be an asset in future recycling projects. With Brackebox's Roll Off Service Inc., businesses can effectively recycle construction materials at its facilities serving Chicago and the surrounding suburbs.

"You might be surprised just how many construction materials can be recycled and repurposed to reduce environmental impact and create more sustainable construction projects before complete waste disposal. Drywall, for example, may be recycled for the gypsum it contains, which makes up about 90% of its weight. Recycled drywall can then be used to manufacture new drywall, produce concrete or as an additive in soil to improve drainage," said Bracken.



The highly productive nature of the crushing and screening train can be seen hard at work in the depths of winter.

Photos courtesy of Brackebox Inc.

### Steps for successful demolition

A major source of materials Brackenbox recycles comes from the demolition of existing buildings and structures. Bracken explained, "Demolition is a necessary step in building removal or reconstruction. Before beginning demolition or renovation, making a few essential preparations will improve the experience while increasing safety and convenience during the project. During a demolition, part or all of a building is removed to make way for new construction or alternative use of the lot. In most cases, demolition is the fastest phase of construction, but there may be several steps involved in this process.

"Always check with your community to determine whether you need any permits for your excavation, demolition or construction work. Have these in hand before you begin your demolition. You'll also need to ensure any utilities are properly disabled before you begin demolition, such as power, water and gas. Make sure to mark off the location of these utilities as well to avoid damaging lines or drains during the work. If your structure contains asbestos, you'll need to schedule asbestos abatement as part of the demolition project. This may take extra time, so make sure to work it into your schedule.

"Once demolition is complete, you'll need to schedule pickup if you rented a dumpster or recycling bins to contain construction waste. Make sure to separate any recyclable materials or request a recycling bin for added convenience. It's essential to plan for waste removal. Whether you will be demolishing without rebuilding or are planning a renovation project, you will certainly have waste that must be removed from the site. Chances are your regular trash service won't be able to handle it, so consider options such as a roll off dumpster rental and scheduled pickup to handle your project waste recycling – especially if you will have hazardous waste, such as asbestos, mercury or lead. You will need to make arrangements for their safe disposal," Bracken noted.

### Expertise and the right equipment

As can be seen, Bracken and his team at Brackenbox know what they are talking about. This expertise has enabled the company to provide a plethora of recycling services and hence, the company is very well thought of. "Brackenbox is serious about recycling and staying current with recycling trends. Along with the reliable service, that is what sold us," O'Malley Construction Co.'s John Burns said. "We have used Brackenbox for many of our sites. They are very reliable, friendly and we like dealing with a family run business."

However, it's not just about expertise and excellent levels of customer service. "Construction and demolition projects require a large amount of equipment. Skimping on having the right equipment on hand can disrupt the timeline for the job and increase the cost, but getting access to everything needed on the site can be expensive. Brackenbox makes it easy to get the heavy equipment customers need for construction and demolition jobs with our fleet. We own and operate a huge fleet of heavy equipment designed to make the work on construction and demolition sites more efficient.

"Our fleet includes wheel loaders, rubber tire loaders, off road dump trucks, skid steers, track loaders, bulldozers and excavators. We have multiple topsoil fields, shredders, screeners and several different kinds of sorting equipment. By using our heavy equipment fleet, our customers can avoid the excessive costs of owning equipment without falling behind on the job you're doing," commented Bracken.

### At the heart of the service

All of the above equipment has proven to be essential for Brackenbox's operations; however, where the company really has derived competitive advantage is through its crushing and screening fleet. The fleet is supplied by Powerscreen's dealer for Illinois and Wisconsin, Midwest Crushing & Screening Inc. The fleet now consists of a Powerscreen Warrior 1800, Powerscreen Premiertrak R400, Powerscreen Trakpactor 320SR, Powerscreen Chieftain 1700 and Powerscreen Chieftain 2100, among others. Through the use of the jaw and



The Powerscreen impact crusher and screener are vital components of the recycling operation.



An aerial view of the Brackenbox site.

impact crushers material can be reduced, then scalped using the Warrior, and then sized accurately using the Chieftains to produce readily reusable products. Over band magnetic separators also enable metal to be removed from concrete.

A recent project undertaken by Brackenbox perfectly illustrates both the company's expertise and the benefits of the Powerscreen crushing and screening equipment. "The problem Brackenbox faced was an increased amount of brick, concrete and asphalt in incoming materials while also having demand to deliver stone products to customers. The solution was scalping to separate concrete and asphalt from infeed materials by using a Warrior 1800 combined with a versatile set up to produce the stone products customers were asking for, using a variety of other equipment," explained Joe Peters, sales manager, Midwest Crushing & Screening Inc.

"We also provide all of the service, support and application help for Brackenbox for any of the applications and machines. Jim has now gone from one screen in his yard to 11 machines from Midwest Crushing & Screening including conveyors. The Powerscreen equipment lends itself to many applications and making many types of aggregates. All of the equipment is designed to work with one another and all of the equipment can work on its own. Brackenbox has just one phone call to make for parts, service, application help and more machines," Peters continued.

### Productive set up

Peters further explained how the equipment is set up to be highly productive, producing the right fractions for Brackenbox's customers. "The material is prescreened with the Powerscreen Warrior 1800, then processed with a hammer, then fed into Premiertrak R400 jaw crusher to reduce to 6-inch minus, then fed into Trakactor (impact crusher) 320SR to make 3-inch minus, then into Chieftain 1700 to separate 3 x 1.25-inch clean stone to make CA1, then into Chieftain 2100 to make 1.25 x 3/8-inch CA7, 3/8 x 2mm CA16, and 2mm minus to make FA6. The end use of the material is for builders requiring state spec materials for roads, foundations, back fill, drainage, etc."

### Midwest Crushing & Screening

Located in Crestwood, IL, Midwest Crushing & Screening has served the states of Illinois and Wisconsin since 2008. The Powerscreen and EVOquip (and other equipment) dealer prides itself in supplying the best in mobile materials processing machinery. The many services offered include a comprehensive rental fleet, knowledgeable sales staff, a large inventory of parts, an onsite service department and its own freighting services. "We like to think of every customer relationship as a partnership with Midwest Crushing & Screening, offering customers the most comprehensive range of mobile crushing equipment on the market today. Our customers are able to choose from our two brands (Powerscreen and EVOquip) based on project size," added a proud Peters.

Bracken certainly believes he gets value for money both from the equipment and from the service the dealership provides in the form of advice and support. "Midwest Crushing & Screening's service and support is unmatched. They are there before we are off of the phone with them. Their machines hold up to the elements and perform for us 24/7/365."

All this means that when combined with his company's expertise and know-how, Bracken honestly believes, "If we can't do it, it can't be done." ■



Travis Vance

# On the front lines with Fisher Phillips

by Travis Vance and Pamela Williams



Pamela Williams

## When OSHA shows up: Practical guidance regarding walk-around rights

The Occupational Safety and Health Act of 1970 (OSH Act) provides that, if an OSHA compliance safety and health officer (CSHO) shows up to conduct an inspection and presents his credentials to you as the employer, you have a right to guide the CSHO's walk-around at your workplace.

What sometimes happens, however, is that multiple employers are present at a worksite. A construction site is one such example. Can a CSHO who presents his credentials to the general contractor complete the site inspection without asking each employer at the worksite to accompany him during the walk-around?

### The right to be present

Section 8(e) of the OSH Act provides that "a representative of the employer ... shall be given an opportunity to accompany the Secretary[s] ... representative during the physical inspection" (29 U.S.C. § 657(e)). Similarly, the Secretary of Labor has promulgated a regulation that further enshrines this right:

"A representative of the employer and a representative authorized by his employees shall be given an opportunity to accompany the Compliance Safety and Health Officer during the physical inspection of any workplace for the purpose of aiding such inspection" (29 C.F.R. § 1903.8(a)).

The bottom line is that employers have an undeniable right to be present for OSHA inspections at their worksites and to walk around with OSHA inspectors during an inspection.

### Recourse if this right is violated

What happens, however, when an OSHA representative shows up to inspect a worksite after receiving a safety complaint, the general contractor agrees to the inspection and during the walk-around, the CSHO observes a possible violation related to your company – a subcontractor at the site? Can you challenge any resulting citations because you were not told about or given the opportunity to participate in the walk-around?

Possibly. Generally, if OSHA has exhibited "substantial compliance" with Section 8(e) of the OSH Act, the court will not vacate subsequent citations that may be issued unless the employer can show actual prejudice.

The controlling Occupational Safety and Health Review Commission (Commission or OSHRC) case is *A.J. McNulty & Co. Inc.*, 19 O.S.H. Cas. (BNA) ¶ 1121 (O.S.H.R.C. Oct. 5, 2000).

In *McNulty*, the CSHO held an opening conference with each contractor and subcontractor on the first day of the inspection. *McNulty*, a subcontractor, did not attend the conference. However, the CSHO informed both a foreman and project manager that they or other company representatives could accompany him during the inspection. Thereafter, during multiple days on site, the CSHO located and notified a *McNulty* representative each time he observed a hazard where the company was working.

*McNulty* argued that the CSHO was required to alert each contractor prior to the inspection occurring on each subsequent day. The Commission, however, rejected that argument. It held that a CSHO "need not alert an employer prior to inspecting its work area if he informs the employer of the accompaniment right at the outset of the inspection and makes an effort within a reasonable time to report any violations to the employer. (Id.).

The CSHO's conduct, the Commission held, "substantially complied" with § 8(e) because the CSHO immediately notified *McNulty* after discovery of each hazard, giving the *McNulty* representatives "an opportunity to ask [the CSHO] what he had observed, including which employees were exposed to the hazard when it was detected" (Id.).

### The Commission further held:

"Moreover, a compliance officer's failure to do one or both of these things to achieve substantial compliance with

§ 8(e) does not warrant vacating a citation item unless the employer makes a specific showing that the misbehavior prejudiced it in preparing or presenting its defense" (Id.).

The Commission held that *McNulty* was not prejudiced because "its representatives learned of possible violations almost immediately after [the CSHO] observed them" (Id.). Federal courts too have found substantial compliance with § 8(e) in the following circumstances:

- The CSHO did not take a representative of the prime contractor on the walk-around but had informed the company that an inspection was about to begin and had provided it with the OSH Act and an informational pamphlet explaining the Act, and the contractor did not assert its right to be present (*Chicago Bridge & Iron Co. v. OSHRC*, 535 F.2d 371, 7th Cir. 1976).

- The employer's superintendent did not learn of the inspection until part of it had been completed, although the CSHO had made an unsuccessful attempt to locate the superintendent prior to the walk-around (*Hartwell Excavating Co. v. Dunlop*, 537 F.2d 1071, 9th Cir. 1976).

- The CSHO did not "seek out" an employer's representative to join him during the walk-around, but the employer knew of the CSHO's presence and "made no effort to participate in" the walk-around (*Frank Lill & Son Inc. v. Sec'y of Labor*, 362 F.3d 840, D.C. Cir. 2004).

As noted above, courts will not vacate citations unless an employer can specifically demonstrate that it was prejudiced by OSHA's failure to provide an opportunity to attend the walk-around. Prejudice can be shown where "further material or mitigating facts might have emerged" if the employer representative had accompanied the CSHO on the walk-around (*Accu-Namics Inc. v. Occupational Safety & Health Review Comm'n*, 515 F.2d 828, 5th Cir. 1975). Generalized claims of prejudice that don't specifically identify the nature of the prejudice are insufficient to have a citation vacated based upon violation of the walk-around right.

### Best practices for protecting walk-around rights

While employers have a clear right to be present for any walk-around inspection, case law suggests that OSHA may not need to use specific language to notify employers of this right, as there is no Miranda requirement that would exclude subsequent conduct in the absence of the reading of certain words. As long as OSHA substantially complies with § 8(e) of the OSH Act, subsequent citations will not be vacated under any exclusionary rule unless employers can demonstrate specific prejudice regarding the violation of their walk-around rights.

To safeguard your company's walk-around rights:

- Be proactive. If you learn about an OSHA inspection occurring where your employees work, insist on walking around with the CSHO, even if he has not specifically informed you of your right to participate.

- Communicate with other companies on site. Make sure a process is in place for companies at the worksite to notify each other if OSHA shows up.

- Be able to identify and articulate prejudice. If you believe OSHA violated your walk-around rights, think about what specific prejudice you were caused – such as providing additional information to the CSHO – because the Commission will require a showing of actual prejudice in order to vacate have any citation.

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# Haver & Boecker Niagara offers turnkey solutions for primary crushing plant systems

Haver & Boecker Niagara offers rugged primary crushing plants in a wide variety of configurations for pre-crushing, secondary and tertiary crushing in the mining and aggregates industries. From design to installation, the manufacturer uses its extensive industry experience and knowledge to provide turnkey systems engineered and built to individual specifications. Haver & Boecker Niagara will work with any crusher and peripheral component manufacturers to ensure customers receive the best plant matched to their requirements.

Haver & Boecker Niagara highlighted its primary crushing plant systems at bauma 2019 in Munich.

"We're entrenched in the mining and aggregates industries and are dedicated to each customer's profitability and success," said Peter Grotjohann, managing director of the German facility. "We use our industry experience and work closely with each operation to design comprehensive primary crushing plant systems with the highest level of durability, service and flexible design so each customer can find the best plant for their operation."

Haver & Boecker Niagara offers turnkey primary crushing plant solutions through customer-oriented project support, from initial concept to the production phase. In addition to coordinating the physical plant, Haver & Boecker Niagara offers structural building engineering at the start, including verifiable statics calculation. The company features transportation management, supervision or the complete package – from assembly and electrical installation to plant start-up and optimization. Haver & Boecker Niagara also offers project management, on-site services, operating supplies, components or plant control. Operations also benefit from service and spare parts planning and service contracts.

Haver & Boecker Niagara provides crushing plant systems with a variety of components, including impact, jaw, cone or roller crushers, Haver screens or rolling screens, push feeders, apron conveyors and Haver vibrating feeders. The plant systems work with all peripheral components such as maintenance cranes, de-dusting systems, compressed air systems, hydraulics and hammers.

Customers choose from two types of systems, basic or master. Basic is the classic pre-crushing plant that uses a Haver & Boecker Niagara N-Class eccentric screening machine to relieve the primary crusher. It includes a feeder, vibrating screen, crusher and several conveyors. If needed, an additional screen deck screens stony earth, either to be screened away or to be fed to production.

The master system allows customers to get the most pro-



Haver & Boecker Niagara offers rugged primary crushing plants in a wide variety of configurations for pre-crushing, secondary and tertiary crushing in the mining and aggregates industries.

Photo courtesy of Haver & Boecker

duction and profitability out of their natural mineral deposit. The system provides increased flexibility for primary crushing stages, especially with non-homogeneous natural deposits. For high quality natural deposits, the operations can use the master system to feed extracted material completely to the production. The system can screen stony soil off to a second vibrating screen for moderate natural material deposits. The system can be configured to completely remove stony soil from difficult natural material deposits.

Both systems work with the Haver & Boecker Niagara N-Class vibrating screen. The screen is perfect for scalping thanks to its smooth operation and heavy-duty design, making it capable of screening as much as 5,000 tons per hour. Haver & Boecker Niagara builds the equipment with an advanced four-bearing design that minimizes structur-

al vibration and maintains constant G-force even through fluctuating material feed rates.

Haver & Boecker Niagara primary crushing plant systems feature rugged steel construction and a robust design incorporating a durable, optimum flow, low wear and maintenance friendly chute system and integrated custom conveyor technology. Accessibility is easy thanks to engineered work platforms, walkways and stairway systems. Integrated plant control systems and data management ensure intuitive operation.

Also included is comprehensive plant documentation on CE requirements and beyond and declaration of conforming with EC directives for machines 2006/42/EG (CE). Haver & Boecker Niagara gives extensive consideration of requirements for personal safety and the environment. ■

## Telsmith introduces Titan™ Series cone crushers

MEQUON, WI – Telsmith Inc. recently rebranded their T-Series™ cone crusher product line to Titan™ Series cone crushers.

"We made various improvements to the T-Series cone crushers throughout the years and felt that the performance and longevity of these cones deserved a name that had more than just a 'T' in front of it," said Jeff Gray. "The name 'Titan' was inspired by the Greek Titan god, Atlas, who is known for strength and endurance."

With sizes ranging from 300 hp - 900 hp, Titan cone crushers have several features such as hybrid thrust bearing technology, hydraulic relief and clearing, and hydraulic anti-spin system.

Telsmith's patented hybrid bearing technology within Titan cone crushers provides the ability to crush at lower horsepower from improved lift that helps carry the crushing forces when compared to roller bearing machines. Engineered to hold up to tough, abrasive aggregate and mining processes, the Titan

comes with hybrid bearings deliver tested productivity, safety and ease of maintenance with maximum uptime.

Simple and safe hydraulic relief and clearing allows uncrushable materials to pass through the large clearing circuits safely and quickly and the fewer number of cylinders reduces maintenance costs.

Telsmith's patented anti-spin system prevents head spin to extend manganese life. An automatic reset feature with no shear bolts in the assembly requires no parts replacement or repair time.

Titan cone crushers are ideal for mining, aggregates, crushed stone production and recycling applications by offering output capacities ranging from 119 to 2,134 metric tons per hour or 130 to 2,350 short tons per hour depending on desired final output size.

All Titan models are available as stationary units with the Titan T300 and Titan T400 also available as portable plants. ■



Titan™ cone crushers are ideal for mining, aggregates, crushed stone production and recycling applications.

Photo courtesy of Telsmith

# Metso celebrates the milestone of 10,000 HP Series cone crushers sold

Metso has reached the significant milestone of 10,000 Nordberg® HP cone crushers sold globally. The most popular modern cone crusher in the world, the HP Series™ celebrates its 30th anniversary this year. The 10,000th HP cone crusher unit was handed over to the French aggregates and asphalt producer and urban infrastructure development company Eurovia in a ceremony held recently at Metso's Mâcon facility in France.

"The HP is undoubtedly one of Metso's most widely used innovations. It's a technology that has been evolving

throughout the years to meet customers' changing needs, making their operations more successful through proven performance and reliable output. That's most likely why HP has become an industry standard for a variety of aggregates and mining applications," said Arto Halonen, vice president, aggregates Crushers at Metso.

The origin of the HP Series cone crusher can be tracked back to Milwaukee, WI, in the early to mid-1980s. The technological breakthroughs by the Nordberg research program redefined crushing performance and provided

the basis for a new type of cone crusher introduced in 1989: the Nordberg® High-Performance cone crusher series, today simply known as the HP.

Today, HP cone crushers are engineered and manufactured in Metso's competence center in Mâcon, France, with manufacturing also in Brazil, China and India. A versatile crusher is ideal for wide range of fixed and mobile applications, varying from limestone to taconite and ballast production to manufactured sand.

"Know-how from developing the HP and from thousands and thousands of customer applications around the world has played an integral part in Metso research and development initiatives in crushing. This is an important milestone for Metso and we want to thank our customers for their continued confidence in us during the first 30 years of the HP's journey and look forward to explore new development possibilities in the years to come," Halonen continued. ■



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• 2015, 4,120 hrs., Stk #MCC320RR  
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All Equipment Subject to Availability.



Eurovia, a subsidiary of the VINCI Group, received the 10,000th HP cone crusher recently at Mâcon. L - R: Vincent Follet, Didier Thevenard and Eric Guelton.

Photo courtesy of Metso



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## New Keestrack dealer for England and Wales

Warwick Ward (machinery) Ltd. recently signed up with Keestrack as new dealer for England and Wales for the full range of mobile crushing and screening equipment.

Keestrack Area Manager Peter McGeary said, "We are delighted to have signed an agreement with Warwick Ward. This company is a household name in the machinery industry in the UK and is well recognised for selling quality equipment and excellent after sales support."

McGeary said the partnership between Keestrack and Warwick Ward will help further increase the sales of Keestrack machines in England and Wales with a focus on supporting their existing customers and finding new customers who are looking for high quality crushers and screeners.

Ashley Ward said, "Warwick Ward are delighted and excited to embark on this new partnership with Keestrack. The Keestrack products are without doubt of exceptionally high quality and the product range fills an important gap in our overall company portfolio. In addition, the products complement very well our other brand partner offerings in the crushing, screening and materials processing sector where we already have many strong existing relationships. We look forward to what we hope will be a long and successful collaboration."

The full range of Keestrack products will be sold alongside Warwick's existing construction and recycling offerings. ■



Kees Hoogendoorn and Ashley Ward sealing the deal with a handshake.

Photo courtesy of Keestrack



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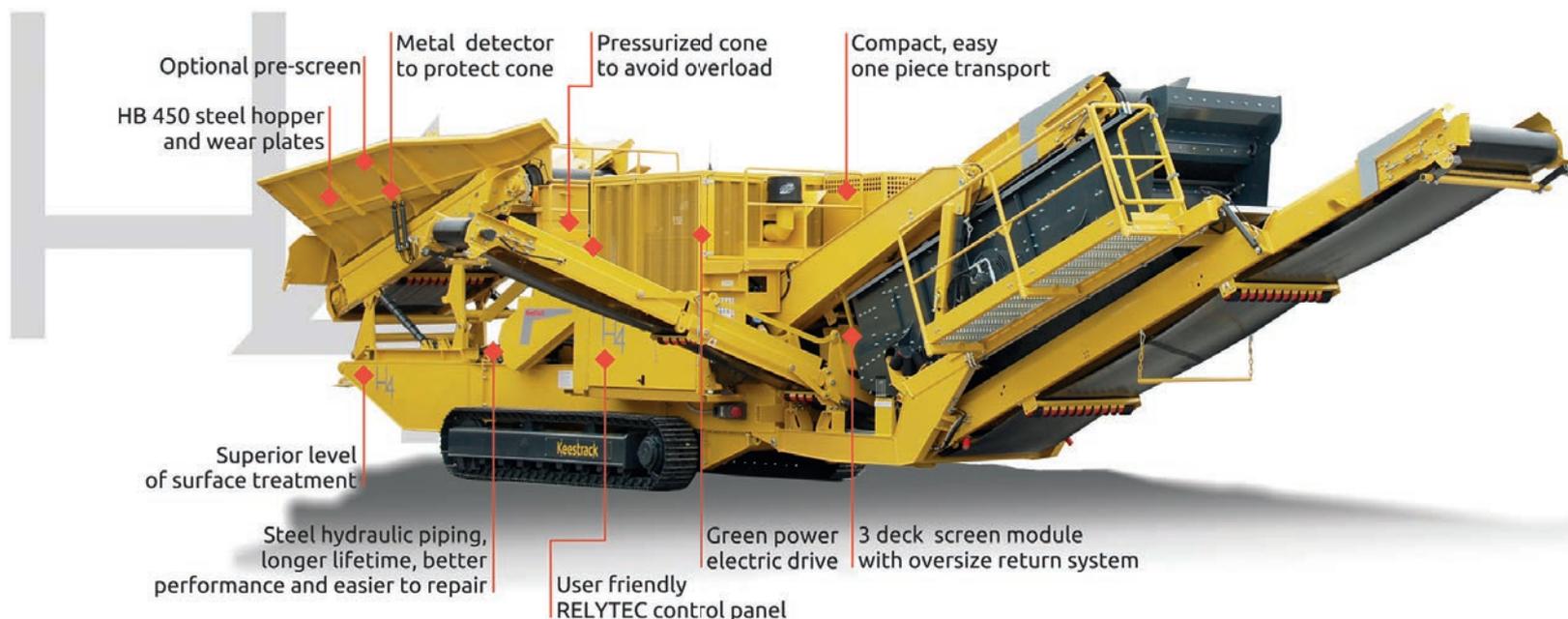
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## New location – double the production

Continuous expansion, high quality standards and short delivery deadlines made such a step necessary for the manufacturer of mobile crushing and screening machinery, Kormann Rockster Recycler GmbH from Ennsdorf. The acquisition of a 10,000 m<sup>2</sup> property in Neumarkt im Mühlkreis (Upper Austria) promises to provide a strong and needed force in a continuous growth and market demand.

“Standstill means regression,” CEO Wolfgang Kormann is convinced. “Continuous development is not only essential in the construction of our machinery, but also the infrastructure has to be adapted according to the innovations and an increased demand.”

### Third location expansion within 15 years

Since its founding in 2004 in Enns, Rockster has developed two patented systems for mobile crushers and expanded its distribution network worldwide. The establishment of a new head office with a warehouse on 7,000 m<sup>2</sup> in Ennsdorf in 2008, as well as founding of the subsidiaries Rockster North America, Rockster China and Rock-

ster Germany between 2013 and 2016, were enormous development steps, to name just a few. Increasing sales, the extended product line and demand for shorter delivery times are main arguments that made the expansion of production necessary. The new property in Matzelsdorf, in the municipality of Neumarkt in Upper Austria, was acquired in January of this year in order to double Rockster’s production capacity. As part of the relocation, the company name, Kormann Rockster Recycler GmbH, has also been changed to Rockster Austria International GmbH in order to accentuate and better define the international nature of the company, its needs and future goals.

### Up to 20 new jobs

Rockster is not only investing in a new company space but is also planning on hiring up to 20 new employees. Kormann expects the relocation to offer improved growth potential due to the availability of a larger space, and offer the same development when it comes to employees. “One of the main reasons for investing in this part of Austria was the experience with employees that are from this very

region – called ‘Mühlviertel,’” said Kormann. “They are known as loyal and diligent people with a positive attitude. In addition, I think it will be better to decentralize companies in the future, as the quality of life of employees will increase, thanks to better work-life balance. We want to create a modern production location where our employees feel bound and comfortable.”

### First Rockster crusher from Neumarkt is planned for autumn

The first machine to be rolled off the assembly line in Neumarkt is the track-mounted impact crusher R1000S. Due to a number of features that this machine offers, it is a highly popular and frequently asked-for crusher. “It is our most technologically advanced mobile crusher and we are highly motivated to deliver one of our bestsellers as the first Crusher produced in Neumarkt this fall,” Kormann said.

Since mid-June, most of the relocation has been completed and the Rockster team is motivated to start a new, improved and energized chapter in Rockster history. ■



Rockster CEO Wolfgang Kormann shows the next important step in the company's history.



Since its founding in 2004 in Enns, Rockster has developed two patented systems for mobile crushers and expanded its distribution network worldwide.



Rockster's Top Seller – the R1000S Impact Crusher – will be the first machine to be manufactured at the new site.

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# Sandvik launches next generation 2 Series impact crusher

Continuing their ongoing product development, Sandvik is proud to announce the launch of their new QI442 track mobile impact crusher. This latest addition features the newly developed CI621 Prisec Impactor which comes with a host of innovations for improved efficiency and greater safety during maintenance, as well as being able to operate in either primary or secondary crushing modes.

### Pioneering crushing technology

Like previous Sandvik Prisec impact crushers, the new CI621 can be configured to work as either a primary or secondary machine, while the two hydraulically-assisted curtains can be readily adjusted to produce a wide range of high quality product sizes.

The new CI621 includes further enhancements primarily focused on increased safety during maintenance and serviceability. These include a new rotor position and locking device, new hammer locking wedges for quicker removal and fitting and a new wedge removal tool to provide safer installation and removal. The rotor bearings have also been upgraded for easier assembly and clearance setting, in addition to an improved sealing system and greater range of adjustment in curtains. This allows greater usage of wear parts and maintains tighter settings in the secondary position.

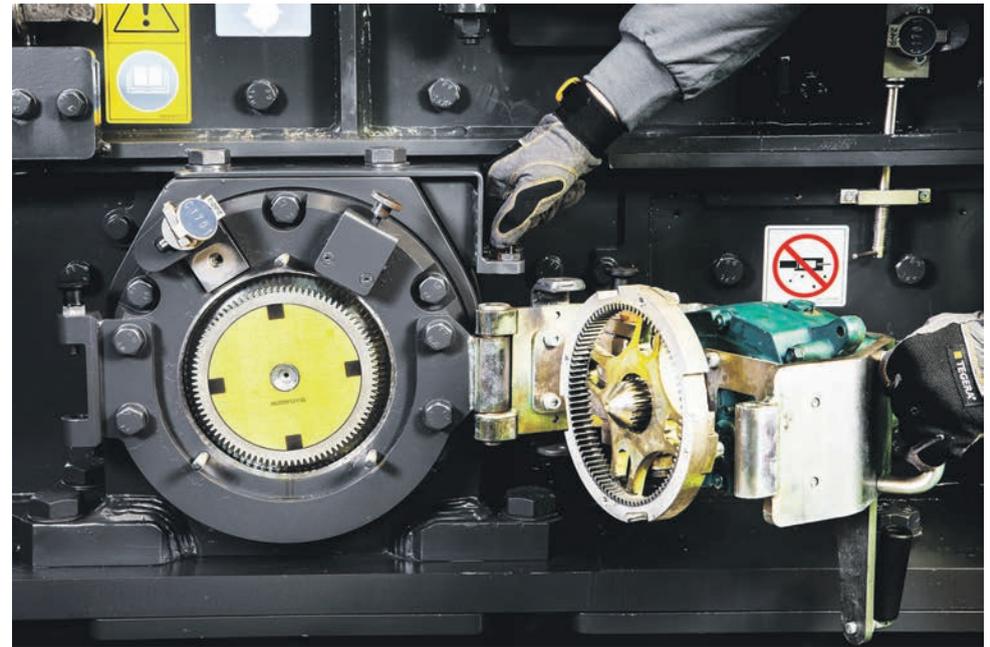
### Crushing and screening in one unit

One of the benefits incorporated into the QI442 is the optional modular hanging screen system. Recently launched on our mobile cone crushers, this system is interchangeable and offers the flexibility for the crusher to operate in open or closed circuit. The unique design enables set-up in less than 30 minutes and can be fitted without the use of additional lifting equipment. The patent pending hanging screen option delivers multi-functionality as a 1-, 2- or 3-way split screener, as well as a highly productive and efficient impact crusher.

The double deck hanging screen enables the machine to produce two screened products and recirculate the oversize back into the feed conveyor. The oversize conveyor may be hydraulically rotated for material stockpiling (90°) of up to three products on the floor or removal (180°). The tail section can be raised hydraulically to give improved ground clearance for transport when loading or unloading.

### My Fleet telematics

The QI442 comes with Sandvik My Fleet remote monitoring system as standard. My Fleet has been developed to help our customers know exactly how their equipment is being utilized. Through the collection and accurate monitoring of a wide array of parameters, this facilitates accurate production forecasting, ensuring that the most efficient use is obtained from equipment, thereby maximizing return on investment.



A new rotor position and locking device, new hammer locking wedges for quicker removal and fitting and a new wedge removal tool provide safer installation and removal.

### Class leading features

The QI442 comes equipped a range of customer focused features designed to improve the return on investment and experience for the operator. A pre-screen is fitted to ensure maximum scalping capability and to prevent any undersize material passing through the impactor, maximizing throughput and reducing wear costs. This also allows a specific sized product to be produced from the natural fines conveyor. The pre-screen also has a choice of grizzly or punch plate top deck and mesh bottom, providing the flexibility to suit any application and the underpan feeder drastically reduces spillage generally associated with impact crushers. ■



One of the benefits incorporated into the QI442 is the optional modular hanging screen system.



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# Single-row cage mills ideal for beneficiation



Stedman cage mills can be operated in reverse in order to prolong the useful life of their cages and breaker plates. Photo courtesy of Stedman

Beneficiation improves the economic value of minerals by removing waste or dirt, which results in a higher-grade product. The single-row cage mill's controlled impact principle makes it especially valuable in the beneficiation of sand and gravel and in the crushing, upgrading and liberation of all types of aggregates and ores. They produce cleanly broken, cubical particles with maximum gradation control for the full life of the wear parts.

Six models are available with an approximate capacity of between 25 and 800 tons per hour. Maximum feed size for the small unit is 4 in. and 12 for the largest. Capacities vary with speed, size of the desired product and weight per cubic foot of material being reduced. They don't require screens for final product sizing and have an open discharge that won't plug.

Stedman cage mills can be operated in reverse in order to prolong the useful life of their cages and breaker plates. Maintenance and service are easily performed and downtime is minimal. Removal of the housing permits easy access to the cage, which can be lifted out through the cover opening. Material fed into the hopper drops onto a bed of like material before falling into the cage, preventing undue wear on the hopper and prolonging the life of the unit. The hopper is hinged so that it can be swung open or even lifted off without being unbolted. Holes in the top flange allow a feeder assembly to be bolted onto the hopper.

The material to be reduced is fed into a rapidly spinning cage of heavy alloy-steel bars. The bars strike the material and smash it into particles, hurling the particles against other bars, breaker plates and other particles. Each impact reduces the material further until it reaches the desired fineness. This fineness is determined by feed material, mill speed, cage design, auxiliary screen use and test sample runs.

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## Seeking input on OSHA's silica exposure rule

The CDRA worked to modify OSHA's employee silica exposure regulation before it officially came out more than a year ago. The rule affected many sectors of the construction industry, including concrete recyclers. We were successful in removing almost all the onerous sections of the rule. The paramount part of the rule is Table 1, which describes the required actions for each construction activity. Below is the table showing what is required for crushing equipment.

OSHA will soon release a Request For Information asking for suggested revisions to Table 1. The association is asking CDRA members for their input on what changes CDRA should request from OSHA in order to make compliance more attainable, while still protecting human health and safety.

Send all recommendations to [info@cdrecycling.org](mailto:info@cdrecycling.org). To discuss this process, call Executive Director William Turley at 630.585.7530. In addition, the CDRA would like to hear if your company has had a brush with OSHA over the silica rule. We are trying to monitor what enforcement agents are interpreting the rule out in the field. ■

TABLE 1: SPECIFIED EXPOSURE CONTROL METHODS WHEN WORKING WITH MATERIALS CONTAINING CRYSTALLINE SILICA			
Equipment / Task	Engineering and Work Practice Control Methods	Required Respiratory Protection and Minimum Assigned Protection Factor (APF)	
		≤ 4 hours /shift	> 4 hours /shift
(xvi) Crushing machines	Use equipment designed to deliver water spray or mist for dust suppression at crusher and other points where dust is generated (e.g., hoppers, conveyers, sieves/sizing or vibrating components, and discharge points). Operate and maintain machine in accordance with manufacturer's instructions to minimize dust emissions. Use a ventilated booth that provides fresh, climate-controlled air to the operator, or a remote control station.	None	None
(xvii) Heavy equipment and utility vehicles used to abrade or fracture silica-containing materials (e.g., hoe-ramming, rock ripping) or used during demolition activities involving silica-containing materials	Operate equipment from within an enclosed cab. When employees outside of the cab are engaged in the task, apply water and/or dust suppressants as necessary to minimize dust emissions.	None None	None None



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