

UPDATE

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H&H EARTHWORKS

The goal for this Montana contractor is making his customers 'look good'



Joe Horner,
President

McDONALD EXCAVATING

Failure not an option for this Washington earthmoving and utility contracting firm



Ryan McDonald,
President

KOMATSU



Brian Sheridan

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revolution**

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Dear Valued Customer:

What an exciting time to be in construction. Today's technology is making companies more productive and efficient than ever. Komatsu continues to lead the revolutionary changes that maximize productivity, decrease downtime and increase your bottom line.

This issue of your Modern Machinery Update illustrates that perfectly. Here, you will find articles on new *intelligent* Machine Control products that make every pass count – from rough-cut to finish grade. Among them are the new PC360LCi-11 and PC490LCi-11 excavators.

Last year, Komatsu introduced the world's first *intelligent* Machine Control semi-automatic excavator. Now, Komatsu delivers two more excavators that take you straight to grade.

The fun doesn't stop there. Komatsu also filled a gap in its dozer lineup by adding a new D85i-18. Featuring a patented SIGMADOZER® blade, it moves massive amounts of dirt. Read about the features of this new dozer inside.

Want to know which machine is the right size for your operation and applications? We can help you determine that, and there is an article inside which provides beneficial information on this topic. There is also an informative article on the new Komatsu WA320-8 and WA500-8 wheel loaders.

If you wish to demonstrate any of these machines, or if there is anything else we can do for you, please call or stop by one of our branch locations.

Sincerely,
Modern Machinery

Brian Sheridan
President



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H&H EARTHWORKS

The goal for this Montana contractor is making his customers 'look good'



Joe Horner,
President

Joe Horner got his start in construction as a truck driver in 2000. Roughly a year later, he became an equipment operator. "I didn't have any experience, but at the time, operators were in demand," he recalled. "I was definitely willing to learn and work hard, and I could see a lot of opportunity for advancement."

For Horner and his wife, Melissa, advancement meant starting their own company, H&H Earthworks, in their hometown of Belgrade, Montana, a couple of years later in 2003. Today, H&H is a full-service, commercial site-development contracting firm that does a wide range of projects including schools, shopping centers, hospitals and residential subdivisions.

"Our specialty is turnkey site packages," said Horner. "We self-perform earthwork, underground utilities and material hauling. We use top subs for the asphalt and concrete work. We also often work as a sub ourselves. When we do that, we have one primary goal: make the people who hired us – the general contractor, architect or engineer – look good. We give them

a site that is neat and professional throughout the job, as well as a quality, finished project completed on time and on budget.

"To do that takes buy-in from our people," he added. "I have more than 30 employees today, and some of them have been here for almost a decade, back to when I first started hiring. They're experienced, talented, and they share my work ethic and customer-first attitude. We get along with the people who hire us and give them what they want. This type of attitude promotes a positive work environment and helps us retain employees and customers."

In addition to Melissa, who handles the financial side of the business, key personnel at H&H include Belgrade/Bozeman Superintendent Kevin Amberson, Helena Superintendent Jack Parrish, Big Sky Superintendent Clark Holton, Utility Superintendent David Geddes and Project Manager, Estimator Rob Smith.

"We work in approximately a 100-mile radius from Belgrade," Horner explained. "Our superintendents all have a home base, but they and their crews will travel to wherever we need them. Our motto is 'whatever it takes,' and we don't have anybody who says, 'I don't do that.' At H&H, we all play for the same team."

Equipment fleet upgrade

H&H recently acquired four new Komatsu machines from Modern Machinery and Sales Rep Ryan Rich that Horner hopes will transform the company.

"My equipment philosophy has always been, get the best value. In the past, that meant buying used machines and supplementing those with rentals, but I wanted to upgrade the fleet. Ryan introduced me to a Komatsu lease program that would allow us to have the latest and greatest

H&H Earthworks' upgraded fleet includes this PC360LC-11, one of four recently acquired Komatsu machines.

► VIDEO





► VIDEO

Superintendent Kevin Amberson uses H&H Earthworks' new Komatsu *intelligent* Machine Control D61EXi-24 to lay finish gravel in preparation for asphalt at a new hospital in Belgrade. "The D61EXi with integrated GPS is basically two machines in one," said H&H President Joe Horner. "It's a dozer that can often take the place of a motor grader on a job."

equipment and technology at a price we could afford. I got quotes from competitors, but in the end, it was an easy choice. Komatsu equipment, in our opinion, is equal or superior to the other brands, and the service and pricing from Modern is much better.

"To sign on the line for four new pieces of equipment was a big deal to me," he added. "It normally would make my stomach churn, but I didn't feel that way. I felt confident that I was doing the right thing. I've never enjoyed spending so much money on anything."

H&H's new machines consist of two Komatsu excavators (a PC360LC-11 and a PC290LC-11), a WA320-7 wheel loader and a D61EXi-24 *intelligent* Machine Control dozer.

"The excavators are fast, and we put a bucket and coupler system on them that we're very excited about," Horner shared. "We're confident they will give us the digging capability we need. The D61EXi is the quietest, most comfortable dozer we've ever had. My superintendent said he'd be happy to give up his position if I would just let him run the dozer all the time."

"Getting a dozer with integrated GPS is a huge step for us," he continued. "It's our first GPS machine, and what I really like is that it's two machines in one. It's a dozer that can also do fine grading, which allows it to basically take the place of a motor grader on a job."

Horner purchased a full warranty and service package with the new machines.

"Other than running and greasing the units, I don't have to touch them. Modern takes care of all the services and any repairs. Instead of



H&H Earthworks President Joe Horner (left) meets with Modern Machinery Sales Rep Ryan Rich. "We think these new Komatsu machines will allow us to do more for less, and that should contribute directly and positively to our bottom line."

purchasing old equipment that I have to maintain myself, I've got brand new, fully maintained equipment for the same price. That's a slam dunk of a deal."

"We're very pleased that Joe gave us a chance to work with him," said Modern Machinery President Brian Sheridan. "We intend to do everything we can to make sure it's a long-term relationship."

Increase profitability

Horner says he doesn't have any specific plans for growing H&H Earthworks.

"When I started H&H, I didn't have a business plan, nor did I spend any time daydreaming about what kind of company we would become. I just went to work every day trying to please my customers and then added people and equipment as needed. Our growth occurred naturally. Going forward, I expect we'll continue to grow, but what I really want to do is increase profitability. We believe these new Komatsu machines will be a big step in that direction. We think they will allow us to do more for less, and that should contribute directly and positively to our bottom line." ■



Rob Smith,
Project Manager,
Estimator



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ModernUpdate.com

McDONALD EXCAVATING

Failure not an option for this Washington earthmoving and utility contracting firm



▶ VIDEO
Ryan McDonald,
President



Discover more at
ModernUpdate.com

McDonald Excavating focuses on public works jobs, such as this slope stabilization on State Route 501 near Ridgefield, Washington. Heavy rains last winter caused a slide that reduced the road to one-lane traffic.

Ryan McDonald helped at his dad's company, McDonald Excavating, while growing up in the southwestern Washington town of Washougal, near Portland, Oregon. After graduating from Washington State University with a construction management degree, he worked for some vertical building contractors before rejoining his dad fulltime at McDonald Excavating in 2005. At the time, the company was about a 10-person firm. Today, employment fluctuates between 35 and 50.

"We've had good growth, even during the really tough years of 2008 and 2009," reported McDonald, who became majority Owner and President of McDonald Excavating this year. "The recession was challenging – we saw a lot of contractors go down – but for me, failure wasn't an option. I didn't have a fallback plan. I'd come back to this, and it's what I wanted to do, so we hunkered down and made it happen."

McDonald Excavating is an earthwork/utility contracting firm that focuses primarily on public works jobs – highways, streets and heavy civil work – for DOTs and municipalities in the area. The company serves as a general contractor on some jobs, but also often works as a sub on very large projects, such as Portland Light Rail.

"The light rail project was our saving grace during the recession," recalled McDonald. "Stacy & Witbeck, the GC on the project, hired us as a sub and basically treated us as part of its crew. We did a lot of jobs for them through the years, and won an award from them in 2010. Prior to that, we had completed quite a bit of residential work, but this got us into the public arena, and we found our niche there."

In addition to Portland Light Rail, McDonald Excavating has been involved in many other signature jobs. They include the Portland East Side Combined Sewer Overflow project, Vancouver Rail West 39th Street Bridge and the upcoming Knight Cancer Research Building at Oregon Health and Science University in Portland.

"We're proud of all our jobs, especially those big ones, but my personal favorites are in Camas and Washougal," McDonald shared. "That's where I was born and raised, my wife works for the City of Camas, and we have a lot of friends there. I like it when people I know can see what we do."

McDonald credits employees, such as Superintendent Tom Kennon, for McDonald Excavating's excellent industry reputation for doing quality work and completing it on time.

"We have good, experienced, honest people. Our crews are professional. We pay our guys well and provide benefits, and as a result, they tend to stay with us. Our goal is to do every job right the first time. If there is an issue and it's our fault, we own up to it, and we fix it."

"Because many of our jobs are in the public arena, we do our best to work with residents to head off any potential problems before they arise. For example, we're doing a sewer upgrade for the City of Camas in the middle of a neighborhood. Before starting the job, our foreman held a meeting with all the homeowners to let them know who





McDonald Excavating owns three Komatsu tight-tail-swing excavators: the company's newest, a PC308USLC-3E0 (left); a PC138USLC-10 (below); and a PC228USLC-8. "My operators love Komatsu machines for their power and comfort, and I like that they're reliable," said President Ryan McDonald.

we are, what we'll be doing and how long it will take. We also answered any questions and gave the homeowners our names and numbers. If there's an issue, rather than call the city to complain, we hope that they'll call us first so we can address it."

Komatsu machines and Modern Machinery service

For equipment, McDonald turns to Modern Machinery and Portland Sales Rep Dan Kipp. The company has three tight-tail-swing Komatsu excavators (a PC308USLC-3E0, a PC228USLC-8 and a PC138USLC-10), two Komatsu dozers (a D61PX-23 and a D37EX-22), a Komatsu WA320-7 wheel loader and a Hamm 3412 roller.

"The tight-tail-swing excavators are great because they provide us with maximum versatility," said McDonald. "Why buy a conventional machine when a tight-tail-swing has nearly the same capacity but can work in traffic and narrow alleys?"

"My operators love Komatsu machines for their power and comfort, and I like that they're reliable," he added. "We've had very few issues. We put in the keys, turn them on and go to work. I've also found that KOMTRAX is a great way to make sure that our maintenance gets done on time."

Beyond the quality of the equipment, McDonald says it's the support from Modern Machinery that makes him loyal to Komatsu.

"Dan and Modern care about us – how we're doing and what they can do to help. When we need a service tech, they get one out to us in short order. Several of our machines are under Komatsu CARE, so Modern takes care of our service intervals, which is an added benefit. We also really enjoy working with Komatsu



► VIDEO



McDonald Excavating President Ryan McDonald (left) works with Sales Rep Dan Kipp from Modern Machinery's Portland branch. "Dan and Modern care about us – how we're doing and what they can do to help," said McDonald.

Financial. Their ability to be flexible and work out deals is a huge plus for us."

"We appreciate that Ryan has given us a chance to show what we can do for McDonald Excavating," said Modern Machinery President Brian Sheridan. "We look forward to working with him for many years to come."

Continued growth

McDonald says he's very pleased with where McDonald Excavating is today, and he expects continued growth moving forward.

"The Portland area is growing rapidly. We have more work than we've had at any time in the past. I expect to continue to grow the company for the foreseeable future. As long as we keep doing what got us here – a good work ethic, fair prices and a commitment to our customers – I'm very optimistic about our future." ■

'JOBSITE OF THE FUTURE'

Komatsu showcases new *intelligent* Machine Control equipment and SMARTCONSTRUCTION



Komatsu unveiled new *intelligent* Machine Control dozers and excavators, as well as its SMARTCONSTRUCTION jobsite solutions, during the recent "Jobsite of the Future" event held at its Customer Center in Cartersville, Georgia. New excavators included the highly anticipated PC360LCi-11 and PC490LCi-11 models.

Komatsu introduced its first *intelligent* Machine Control products three years ago with the

(L-R) Michael Blankenship of Modern Machinery, Matt Pihl of Pihl Excavating and Modern Machinery Sales Rep Rob Jacobs meet during the Jobsite of the Future event held at Komatsu's Customer Center in Cartersville, Georgia.



Komatsu introduced its second-generation *intelligent* Machine Control D61PXi-24 dozer, along with a new PC490LCi-11 excavator.



Attendees could operate all equipment, including the D155AXi-8 RC dozer, which is controlled remotely via a radio transmitter.



D61i-23 dozers, and this event showcased the second generation of that machine. The new D61i-24 model features a Tier 4 Final engine that reduces fuel consumption and operating costs. Additional new dozers included the D85i-18 and the D155AXi-8 RC (radio control) that is operated remotely via a radio transmitter.

"These new machines build on the success of our strong *intelligent* Machine Control family," said Jason Anetsberger, Komatsu Senior Product Manager. "When we introduced our first *intelligent* Machine Control excavator, customers asked us when additional, larger machines would be available – especially one in the popular 30-ton class size. We're pleased to introduce these new models, along with new dozers, and give the people in attendance a chance to operate them."

Attendees could also check out more *intelligent* Machine Control products, including D39i-24, D65i-18, D51i-22 and D155AXi-8 dozers. The world's first *intelligent* Machine Control excavator model, the PC210LCi-10, was also available for operation as was standard equipment such as the new WA600-8 wheel loader and haul trucks.

Komatsu personnel discussed the SMARTCONSTRUCTION program, which goes beyond *intelligent* Machine Control equipment with comprehensive jobsite solutions provided by Komatsu. In addition to training and support, offerings include: surveying/inspection, 3D modeling, jobsite data solutions, jobsite setup and optimized operation consultation.

"Komatsu distributors offer customers more than just machines," Anetsberger explained. "They provide a total package solution delivered by the distributor's Technology Solutions Expert. Our aim is to meet customers' jobsite technology needs today and tomorrow, through innovative solutions that improve their bottom lines." ■

D61PXi-24



intelligent MACHINE CONTROL

- First to last pass grading technology
- Revolutionary track slip control
- External stroke sensing hydraulic cylinders
- New Tier 4 Final technology



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ANDY CHAPMAN / SALES REP / LINDER INDUSTRIAL MACHINERY / GREER, SC

"From financing to product quality to support and training after the sale, Komatsu delivers everything my customers demand. I've been selling their full line, including the PXi and EXi series dozers, for years. Innovation and the exclusive *intelligent* Machine Control set them apart from the others. And that's why I AM KOMATSU."

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IS BIGGER BETTER?

Companies employ rightsizing strategy to purchase equipment and build efficient fleets



Ken Calvert,
Director, Komatsu
Business Solutions
Group



Kurt Moncini,
Komatsu Senior
Product Manager -
Tracked Products

While the lowest points of the Great Recession are in the rearview mirror, construction companies are applying the lessons learned from those tough economic times to their current business models. As a result, companies today are continually looking for the most efficient ways to operate. One area where that mind-set is put into action is with equipment fleets.

Owners are concentrating on maximizing the value of every piece of equipment in their yards. The strategy of rightsizing – matching equipment to its most cost-effective application – is helping owners accomplish this.

In a 2014 interview with Equipment Manager magazine, industry consultant Andrew M. Agoos noted that equipment owners emerged from the economic downturn with changed attitudes. He says that rightsizing grew in popularity as many owners were skeptical of the economy's continued growth. Because of this belief, owners continued to increase their efforts to manage and maintain equipment judiciously.

Buying the right machine

One of the most effective ways to own an efficient fleet is to purchase the correct machines.

To operate cost effectively, equipment owners are building their fleets by purchasing smaller machines and renting or leasing larger ones when needed. The rightsizing strategy has grown in popularity since the Great Recession.

Fleet managers need to consider several factors when purchasing equipment – budget, work-site conditions, current and future projects, technology and transportation. Companies can save time and money by doing their homework.

Ken Calvert is the Director of Komatsu's Business Solutions Group, a team that handles special projects relating to customers, distributors and corporate personnel. As part of this mission, the group collaborates with customers to help with the fleet-building process.

"Our favorite thing is to present a customer who has a \$2 million budget with a package that costs \$1.5 million and is much more efficient," shared Calvert. "We work with companies to help them monitor machines, look at the future and make the best decisions. Our goal is to save them money up front and in the future."

The group achieves this goal by often advising customers to buy smaller equipment with a focus on rightsizing.

"The data shows that many people own machines which are too big," said Calvert. "Buying a smaller machine is the single-best thing customers can do to save money. Large machines cost more up front, are more expensive to run and maintain, require more fuel, and they depreciate faster. Smaller machines have a higher utilization rate because they can be used on more jobs, and their residual values are more predictable and potentially higher."

Ego can play a role in the decision to purchase a larger machine, but Calvert says that many times it's a lack of information that causes customers to select machines that are too big. Customers may believe they are protecting themselves by purchasing a larger machine with the thought that it can handle more jobs. Using the wrong-sized machine is also common with new or growing companies. Many times, those businesses are





Owning and Operating Cost Comparison Among Komatsu Excavators

Model	PC88MR-10	PC138USLC-10	PC170LC-10	PC210LC-10	PC360LC-10	PC490LC-10
Price Variance	x	1.4x	1.5x	2.1x	3.4x	4.6x
Fuel Usage	1.41 gal/hr	2.04 gal/hr	2.97 gal/hr	3.38 gal/hr	5.77 gal/hr	7.55 gal/hr
Average Maintenance Fee Variance	x	1.3x	1.4x	1.4x	1.9x	2x

trying to do jobs with the machines they already own to avoid paying for an additional one. For a short time, this strategy may prove beneficial, but not over an extended period.

Another important component of rightsizing is matching equipment that will be working together in the same applications. For example, loading and hauling equipment need to match for optimum efficiency. If a loader is too large for a truck, or vice versa, the project will not be as efficient.

"I think people would be surprised at the benefits of buying properly sized machines," continued Calvert. "Just because a PC360 excavator can do the same jobs as a PC210, doesn't mean it should. The PC360 isn't nimble enough for smaller jobs. Using a right-sized machine is not only cheaper from an equipment standpoint, but it also saves time and eliminates wasted effort, which reduces the cost."

Technology changes fleets

In addition to buying right-sized machines and maintaining a proper-sized fleet, owners today also must consider technology advancements. With every new generation of equipment released, fuel efficiency, hydraulic performance,

visibility and emissions output improve. Simply purchasing the previous model again can cost companies a great deal of money.

"If an owner of an older machine, like a Komatsu PC400LC-6 excavator, was ready for a new machine, getting the latest 400-series excavator may not be the best decision," explained Kurt Moncini, Komatsu Senior Product Manager – Tracked Products. "Some of today's machines are so advanced that they are able to outperform older, larger machines."

To illustrate this, Moncini compares a Komatsu PC400LC-6 excavator to a new Komatsu PC390LC-11. The PC400 is 93,000 pounds with a 125-series engine; the PC390 is 90,000 pounds with a 114-series engine. Despite being smaller, the PC390 has a similar bucket capacity (2.97 yards to 3 yards), more horsepower (267 hp versus 266 hp), better over-side lift at 25 feet and comparable over-front lift at 15 feet. The PC390 also has the ability to match engine modes to application, offers advanced hydraulic features and has better fuel efficiency while meeting the latest emissions standards.

"With improvements to engine efficiency and hydraulic systems, the smaller PC390 can do just about everything the PC400 can," said Moncini.

As machines increase in size, so does the cost to purchase and maintain them as illustrated in the chart above. Ken Calvert, Director of Komatsu's Business Solutions Group says that owners would be "money ahead" by purchasing smaller machines and renting or leasing machines for larger projects as needed.

Continued . . .

Rentals and leases both growing in popularity

... continued

“For companies that are looking to replace older machines, there is value in considering newer, smaller models. In many cases, they are just as productive.”

The idea of rightsizing can also apply to the number of machines in a company’s inventory. Traditionally, firms built large fleets by holding onto older machines that were paid for, on the small chance they would be needed on a future project. While the machines may not have a payment, they lose value annually, and the costs associated with running those machines are higher than new ones. To run a leaner operation, some companies may want to sell older machines and begin building more efficient fleets by purchasing right-sized machines, renting or leasing.

“What many people don’t realize is they may be money ahead by buying a smaller machine to handle a majority of their projects and renting a larger machine when needed,” reported Calvert. “If a company can handle 90 percent of its projects with a smaller machine, it would be better off financially to rent a larger one for the other 10 percent.”

Meeting the trends

Equipment distributors and lenders have noticed this trend and designed programs to accommodate these changing attitudes. Agoos said that rental purchase options (RPOs) and similar programs were uncommon five or 10 years ago, but are now standard because dealerships have built large rental fleets.

Advanced technology makes newer machines just as productive as older, larger machines. “With improvements to engine efficiency and hydraulic systems, the smaller PC390LC-11 excavator can do just about everything the PC400LC-6 can,” said Kurt Moncini, Komatsu Senior Product Manager – Tracked Products.



Short-term leases have also experienced a similar spike in popularity.

“Twelve-month leases were almost unheard of before the recession, but now they are very popular,” revealed Tony Suits, Retail Finance Manager at Power Motive Corporation, a Komatsu distributor for Colorado and Wyoming. “A number of companies were stuck with big equipment payments during the recession, and they want to avoid that situation again. Today, some companies have work scheduled for eight to 12 months, but may not be sure what is coming after that. They love short leases because of the option to walk away or extend the lease after 12 months, depending on what work becomes available.”

Another reason that managing equipment through rentals or leases has grown in popularity is the benefits that come with the agreement.

“During a lease, we cover the maintenance and repairs, taking much of the risk out of the equation for the customer,” said Suits. “If something goes wrong, we can fix it or get them a new machine, and it’s all part of the agreement. Customers like being able to write the same check each month and not worry about downtime.”

Calvert says that financial protection should give owners the confidence to develop their fleets and grow their businesses.

“As companies grow and get into applications where they don’t own the optimal machines, they should consider rental,” he suggested. “It’s a cost-effective, low-risk way for owners to decide how to build their fleets and test out machines before they purchase.”

Mix and match

While rightsizing is a technique that allows companies to operate more efficiently, it is far from a one-size-fits-all solution. The onus is on a company to do its research and tailor a strategy to its needs.

Calvert points out that each company is different and should create a plan based on its production needs and goals, but he suggests a mix of machines that can handle many jobs cost effectively.

“Think of it like a basketball team,” he explained. “You can play with five centers, but you aren’t going to be very successful. You need a mix of abilities to succeed. The same is true when building a fleet.” ■



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CREATING A SAFETY CULTURE

Companies should focus on more than just recording zero incidents



Bob Fitzgerald,
Manager of Project
Safety and Health,
Southern Company
Services

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has been republished
with permission and
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Cornerstone Magazine
at nccercornerstone.com.*

Bob Fitzgerald, Manager of Project Safety and Health, Southern Company Services, says it's important for companies to go beyond thinking in terms of achieving zero recordable incidents and implement proactive safety processes.

Great news! Your project achieved a safety milestone with zero OSHA-recordable injuries. Mission accomplished, right? Not entirely. Most safety practitioners insist that there is always room for improvement with safety practices and procedures.

While the OSHA Recordable Incidence Rate (RIR) is a common and important metric for many organizations, some industry groups rank this indicator too high. Avoiding OSHA-recordable injuries is always a good thing, but claiming victory based on that alone does not meet the true goal of safety. For example, how many close calls were there? As safety leaders, we should work to change the mind-set that milestones equal achievements and instead shift to a clearer understanding of overall safety performance.

To better grasp the evolution of safety-performance measurements, it is

important to appreciate why the OSHA RIR has become so prevalent. In 1982, the Business Roundtable issued the report "Improving Construction Safety Performance" to emphasize the importance of investing in safety programs and open dialogue between contractors and the workforce. The report also provided a relatively objective method to select safe contractors by suggesting the use of Experience Modification Rate (EMR) and OSHA RIR for safety evaluations.

Ultimately, the report's appendix gave business owners a tool to evaluate their contractors objectively. The intentions were noble, but some may have taken these guidelines as definitive metrics, placing too much emphasis on OSHA-recordable cases. In fact, many owners are still using variations of the original 1982 report appendix as a qualification document to help select contractors. This reporting can lead to inconsistencies. For example, one dose of a prescription pain medication qualifies as an OSHA-recordable injury, as does a fractured femur. Ideally, injury severity should be considered, because incidence rates alone may not paint the clearest picture.

Evaluators sometimes focus on the numbers and place too much emphasis on case management in achieving safety performance. Workers notice when management continually stresses achieving zero RIRs. If bonuses and promotions are tied to OSHA rates, employees and contractors may intentionally, or unintentionally, avoid reporting incidents.

It is important to build safety systems and processes to minimize the impact of human error. This also means we must think beyond achieving zero incidents, particularly with regard to OSHA rates. It is vital to implement proactive safety processes and take care of our people. ■



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011

'STRAIGHT TO GRADE'

Komatsu adds larger, more productive *intelligent Machine Control* excavators

Want to dig straight to grade with an excavator? You can with Komatsu's new *intelligent Machine Control* excavators, including the PC360LCi-11 that fits in the popular 30-ton size class and provides excellent productivity and efficiency in a wide range of applications.

"Nimble, yet highly productive, the PC360LCi-11 is easily the most anticipated *intelligent Machine Control* product to launch from Komatsu in recent memory," said Jason Anetsberger, Komatsu Senior Product Manager. "From trenching on a utility work site to mass excavating on a highway project, the PC360LCi-11 is flexible and versatile enough to be at home on almost any jobsite."

A 257-horsepower Tier 4 Final engine powers the PC360LCi-11, while the larger PC490LCi-11 has a Tier 4 Final, 359-horsepower engine. On top of an already very productive base machine, incorporation of the *intelligent Machine Control* technology boosts productivity up to 66 percent when compared to conventional excavation methods.

"Many of our customers have enjoyed the precision, versatility and efficiency of our first *intelligent Machine Control* excavator, the PC210LCi-10, and have asked us to scale *intelligent Machine Control* technology to larger-sized excavators. The wait is over," reported Anetsberger. "Whether you are mass excavating, trenching or fine grading, the PC490LCi-11 will help increase productivity and efficiency, while removing the burden and worry of overexcavation."

Revolutionary automation

Komatsu introduced the world's first *intelligent Machine Control* excavator, the PC210LCi-10, to rave reviews in 2014. Like that machine,

the PC360LCi-11 and PC490LCi-11 feature Komatsu's revolutionary, fully factory-integrated, machine-control system. The exclusive control function lets operators focus on moving materials efficiently, without worrying about digging too deep or damaging the target surface.

Komatsu's *intelligent Machine Control* excavators utilize 3D-design data loaded into the touchscreen display to show machine position relative to target grade. When the bucket reaches the target surface, automation kicks in to limit overexcavation.

"Once the target elevation is reached, no matter how hard the operator tries to move the joystick control to lower the boom, the excavator won't allow it," said Anetsberger. "From rough digging to finish grade, these machines improve efficiency and precision and minimize overexcavation, making every pass count." ■



Jason Anetsberger,
Komatsu Senior
Product Manager



Discover More

Quick Specs on Komatsu PC360LCi-11 and PC490LCi-11 Excavators

Model	Net Horsepower	Operating Weight	Bucket Capacity
PC360LCi-11	257 hp	78,484-79,807 lb	0.89-2.56 cu yd
PC490LCi-11	359 hp	105,670-107,850 lb	1.47-4.05 cu yd



The new *intelligent Machine Control* excavators feature Komatsu's fully factory-integrated machine-control system. The exclusive control function lets operators focus on moving materials efficiently, without worrying about digging too deep or damaging the target surface.



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010

MORE EFFICIENT LOADERS

New WA500-8 and WA320-8 feature high production, lower fuel consumption in a variety of applications

Wheel loaders perform a variety of tasks and in a wide range of applications. Komatsu's new Tier 4 Final WA500-8 and WA320-8 models provide increased efficiency and high production under all types of conditions. These new models also use less fuel than their Tier 4 Interim predecessors – up to 5 percent less with the WA500-8 and up to 3 percent less with the WA320-8.

The WA500-8's standard bucket has an increased capacity of 7.6 cubic yards, and the bucket now fills easier and retains material better, contributing to the loader's efficiency and productivity gains of up to 10 percent. The machine also features greater horsepower than the Dash-7 model.

"The WA500-8 is made for loading on-highway trucks or smaller rigid trucks in quarry applications, articulated trucks on construction sites or load-and-carry applications," said Komatsu Product Marketing Manager Rob McMahon. "Operators will also appreciate enhancements in cab comfort and features, such as the integrated load meter and full automatic digging function."

'Utility knife on four wheels'

The WA320-8's parallel-lift linkage, with auto tilt-in to simulate a Z-bar, can be used in any application from pallet handling to hard digging. With increased operating weight, the WA320-8 features an S mode that gives operators maximum control in slippery conditions.

"The easy-to-control hydrostatic transmission makes the WA320-8 ideal for agriculture and residential applications, but its size and attachment-friendly quick coupler make it an all-around performer for almost any work site," Komatsu Product Marketing Manager Craig McGinnis said. "The WA320-8 works well for snow removal. It's a multi-purpose utility knife on four wheels."

Komatsu designed its Komatsu Diesel Particulate Filter (KDPF) and other after-treatment components in its new Tier 4 Final loaders to work in conjunction with the engine for efficiency and longer life. More than 90 percent of KDPF regeneration is performed passively, with no action required by the operator and no interference with machine operation.

"These new models are a great fit for companies using construction-sized and small quarry loaders," said McGinnis. "We encourage anyone who uses loaders to demo a WA500-8, WA320-8 or both. We believe owners and operators will see the clear advantages that the new models offer." ■

The WA500-8's standard bucket has an increased capacity of 7.6 cubic yards, and the bucket now fills easier and retains material better, contributing to machine efficiency and productivity gains of up to 10 percent.



Rob McMahon,
Komatsu Product
Marketing Manager



Craig McGinnis,
Komatsu Product
Marketing Manager

Quick Specs on Komatsu WA500-8 and WA320-8 Wheel Loaders

Model	Horsepower	Operating Weight	Bucket Capacity
WA320-8	165 hp	34,128-34,392 lb	3.0-4.2 cu yd
WA500-8	357 hp	76,708-77,856 lb	5.9-8.2 cu yd



WA500-8



WA320-8



HM300-5

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015

ROUNDING OUT THE LINEUP

Komatsu's new D85i-18 dozers hog dirt, excel at finish grades with *intelligent Machine Control*

Three years ago Komatsu unveiled its first *intelligent Machine Control* dozer, the D61i-23. Several models followed, ranging from the 105-horsepower D39i-23 to the 354-horsepower D155AXi-8. However, one size class remained without an *intelligent Machine Control* dozer. Komatsu filled that gap with its new 30-ton, 264-horsepower D85EXi-18 and D85PXi-18 models.

The new D85i-18 dozers feature factory-integrated GPS grade control that eliminates the need for cables and masts. Once engaged, the system automatically starts the cut and lowers the blade to grade in a typical dozing pass. If the load increases to maximum capacity, the blade automatically raises to minimize track slip, ensuring productive dozing. This allows the dozers to achieve up to 8 percent greater efficiency in moving materials, based on start-to-finish-grade testing against typical aftermarket machine-control systems.

A new standard, operator-selected Reverse-Grading mode enables automatic blade control while in reverse.

"Customers who use a standard D85-18 like that it moves massive amounts of dirt, yet is easy to transport," said Chuck Murawski, Komatsu Product Marketing Manager. "The new D85i-18 does that with the added benefit of machine control, so that every pass counts. Eliminating the components of traditional aftermarket systems, and the time required to remove and install them, means even more passes and greater profits."

Increase production with SIGMADOZER® blade

Increased production of up to 15 percent during those passes is possible using a Komatsu-patented

SIGMADOZER® blade that rolls material to the center for increased soil-holding capacity and reduced sideways spillage.

Maintenance and repair costs remain low with Komatsu's Parallel Link Undercarriage System (PLUS) that provides up to double the wear life of traditional systems. A new Triple Labyrinth final drive provides added protection for the drive's floating seals.

"With the monthly production gains that are realized by starting sooner, finishing faster and using less fuel, owners are finding that the more they run the D85i-18, the more they save," said Sebastian Witkowski, Komatsu Product Marketing Manager. "From heavy-slot dozing to finish grading, this dozer is perfect for larger earthmoving jobs where accuracy and efficiency are important." ■



Chuck Murawski,
Komatsu Product
Marketing Manager



Sebastian Witkowski,
Komatsu Product
Marketing Manager

Quick Specs on Komatsu D85i-18 Dozers

Model	Net Horsepower	Operating Weight	Blade Capacity
D85EXi-18	264 hp	67,439 lb*	9.4 cu yd*
D85PXi-18	264 hp	65,080 lb	7.7 cu yd

*With SIGMADOZER®

Komatsu's new *intelligent Machine Control* D85i-18 dozers move massive amounts of dirt and grade efficiently while remaining easy to transport. They feature a new standard, operator-selected Reverse-Grading mode that enables automatic blade control while in reverse.



Discover More



ADAPTING TO YOUR NEEDS

Komatsu releases new maintenance programs, adapts to changing attitudes about machine ownership



Paul Moore, Vice President,
Parts Sales & Marketing

This is one of a series of articles based on interviews with key people at Komatsu discussing the company's commitment to its customers in the construction and mining industries – and their visions for the future.

Paul Moore joined Komatsu in 2006 and became the Vice President, Parts Sales & Marketing in 2015. His career path to that point included two continents and several jobs in the heavy-equipment field. He started as an apprentice technician in his native United Kingdom in 1984. In 1990, he joined a global agricultural-equipment manufacturer and then moved to the United States with that company in 2000, before joining Komatsu.

"My background and career path have provided me several opportunities to progress," said Moore. "I've held different product support positions, and I think that helps me understand the importance which customers place on parts support."

Moore joined Komatsu to focus on its remanufacturing business. From there, he progressed from Senior Product Manager, Reman; to Senior Marketing Manager, Spare Parts; to Director of Parts Marketing; and finally to his current position.

"The first thing that attracted me to Komatsu was the reputation of the product," Moore recalled. "Now that I've been involved with the company, I know why the reputation is so strong. We have great people who set the bar really high. It's a world-class organization."

Moore is married and has two children. In his free time, he enjoys riding motorcycles and spending time with his family.

QUESTION: What is the main role of the Parts Sales & Marketing department at Komatsu?

ANSWER: The role of our group is to focus on customers' parts support needs in order to maximize efficiency in their operations. By doing so, we demonstrate the quality of our parts, strengthen our customer relationships and drive loyalty for Komatsu machines, parts and service.

QUESTION: How has the market changed in regard to owning heavy equipment during the past few years?

ANSWER: It's become clear that equipment owners are looking for even more ways to maximize their investments in the machines they own. Customers are cautious with the money they spend to ensure it is used as efficiently as possible. They want to allocate their maintenance dollars where it makes the most sense. Komatsu builds technologically advanced, high-quality products that require the use of high-performance filters and engineered oils to maintain peak performance and component longevity. When customers buy revenue-generating, capital assets they expect a maintenance program that ensures only parts and fluids made for their specific Komatsu machines are used when serviced. This is why we developed Genuine Care. We're so confident in the benefits of our Genuine products that we stand behind each Genuine Care program with a 12,000-hour component life assurance and 100 percent core guarantee.

QUESTION: What should customers know about the new Genuine Care program and how do they benefit from it?

ANSWER: Our new Genuine Care program is an extension of our complimentary Komatsu CARE program for Tier 4 machines. Customers can purchase a Genuine Care program from their Komatsu dealers to pick up where the complimentary maintenance leaves off. As long as that Genuine Care program remains in place, we



To accommodate customers' changing attitudes regarding machine ownership, Komatsu offers new programs that encourage customers to meet with distributors and plan future maintenance. The programs ensure that Komatsu-certified technicians continue to perform maintenance on machines.

reward the Komatsu machine owner with the component assurance and core guarantee; both of which are fully transferrable when it's time to trade in or sell the machine. Our Komatsu distributors use KOMTRAX to monitor the machine and proactively schedule and perform maintenance at times that work best for the Komatsu machine owner. Factory-trained technicians perform the work, and all services include oil analysis of each component and a full machine inspection. This complete service history also ensures that the machine qualifies as Komatsu CARE Certified Equipment, our highest level of previously owned equipment and a serious driver of higher residual values when an owner decides to trade in or sell the machine.

QUESTION: What has Komatsu done to accommodate customers' changing attitudes about ownership?

ANSWER: We began planning programs that we believed could be of value to our customers and this new trend. Our new Firm Future Order program is a direct result of that. This long-term planning program is designed for the distributor to sit down with a customer and look at what machines the customer is running, the applications those machines are performing in, how hard the machines are working and what the machines will be doing in the future. Then, we schedule large maintenance projects three, six or 12 months in advance, based on the information gathered. We let the customers lock in pricing and guarantee availability of parts. We also schedule the work at times that are convenient for the owners. This enables the owners to build those repair costs into their budgets.

The purpose of this program is to eliminate unexpected downtime through preventive maintenance. We want to help customers plan ahead and involve them in a proactive



In addition to service programs, Komatsu places an emphasis on getting more people in the field to meet with customers and work with the distributors. As a result, the customer-distributor-brand relationship has strengthened. "These programs give customers the opportunity to develop a relationship with someone from Komatsu, in addition to their dealers and sales reps," said Vice President, Parts Sales & Marketing Paul Moore.

discussion. Having a plan in place is better than reacting to a surprise failure, and the plan can always be modified. For example, if a machine is scheduled for a transmission replacement, but it is outperforming our estimates, the customer can move the maintenance date but keep the guarantees. We will be ready and anticipate the service on the revised date.

QUESTION: How have customers received these programs?

ANSWER: Our distributors see a huge benefit in creating more face-to-face meetings with their customers, and the customers appreciate that we are looking out for them and handling the machine monitoring and the maintenance scheduling.

We've noticed that these programs have strengthened the bond between customers and their distributors and created a deeper sense of brand loyalty to Komatsu. The programs make our technicians more visible to customers because they are servicing the machines consistently and meeting with the customers. Customers can see that we are working to minimize downtime. The programs were put into place to help customers have a better experience with the Komatsu brand.

QUESTION: Were these programs the only changes made to accommodate customers?

ANSWER: No, continuous improvement is a core competency of Komatsu and led us to reorganize our field support staff. By increasing the number of staff members and reducing the size of their territories, we are able to spend more time with our distributors and in front of their customers. We've seen a great benefit to building, maintaining and strengthening those relationships at a jobsite level where the work is really being done. It truly helps us bring products and programs to the market to meet the ever-changing needs of our Komatsu machine owners. ■

PROVEN VALUE

KOMTRAX helps Jackson Plumbing locate stolen PC35MR excavator

A recent global fraud report showed that more than a third of construction, engineering and infrastructure companies experienced theft during a one-year period. Count Jackson Plumbing among the unlucky few. The Sulphur, Louisiana, company had a Komatsu PC35MR compact excavator stolen from a jobsite.

"At some point during a weekend, someone came along, hooked onto the trailer the machine was on and drove off with both of them," said Jackson Plumbing Owner Jeremy Jackson. "We discovered them missing on Monday morning, and contacted the owner of the project to see if he had taken the machine

to a different jobsite. That wasn't the case, so we quickly contacted our Komatsu distributor to locate it."

The distributor pulled up the excavator on KOMTRAX, Komatsu's remote machine-monitoring system. The PC35MR appeared to be about four hours away.

Within ten minutes, KOMTRAX pinpointed the location of the missing machine to the backyard of a new house under construction, and it transferred the coordinates to Google Maps. Because it was new construction, Google Maps couldn't provide an address, but it was able to give a description of the building.

The distributor then provided the description to local law enforcement, who contacted the Sheriff.

"They confirmed the machine was there, and the next day we had someone drive over and pick it up," said Jackson. "Now that I see what KOMTRAX can do, I think I'll get a little more involved with it. It definitely proved its value to us."

KOMTRAX was designed for more than locating a stolen machine. Customers can also call their distributors with service codes to find out what needs to be fixed. The service technicians know what the codes mean, so they can take the needed parts with them in one trip, which saves time and lowers costs. KOMTRAX also tracks machines for services due under Komatsu CARE. Customers can check equipment locations, hours, idle time and other valuable information.

For more details on Komatsu's KOMTRAX machine-monitoring system, contact your local distributor. ■



Jackson Plumbing Owner Jeremy Jackson stands next to the company's PC35MR excavator that was recovered after being stolen. KOMTRAX, Komatsu's remote machine-monitoring system, quickly pinpointed the machine's location. "Now that I see what KOMTRAX can do, I think I'll get a little more involved with it. It definitely proved its value to us," said Jackson.

BUILDING THE FUTURE

First Komatsu Diesel Program students graduate from North Dakota State College of Science

The first group of students from the Komatsu Diesel Program graduated in May. Five General Equipment & Supplies, Inc. students finished the two-year program, which is a joint effort among Komatsu, its distributors and North Dakota State College of Science (NDSCS) in Wahpeton, North Dakota. Road Machinery & Supplies Co. also had one student complete the inaugural program.

"We couldn't have asked for a better group of students for our first graduating class," said General Equipment Technician and Career Developer Ann Pollert. "These students are passionate about diesel. They absolutely exceeded our expectations. We are so proud of them."

After a seven-month diesel technology introductory course at NDSCS, the students began a Komatsu-specific program that rotated eight-week classroom sessions with eight-week paid internships through General Equipment. The classroom/internship structure was designed to help the students gain a complete understanding of Komatsu machines and became accustomed to General Equipment.

"The students have been part of our culture for two years now," reported Pollert. "They know what our shop feels like and what our expectations are. There will be no learning curve. We have spent the last two years getting them ready to join the General Equipment family."

It was a short wait to see members of the first class in action. The students graduated on a Friday, and their first day of work was the following Monday. "Once they walked across the stage, they were full-time employees, with benefits," added Pollert.

"Knowing that I had a job waiting for me when I graduated was really important to me,"

said graduate Alex Lass. "The program was awesome. It was great to apply what I learned in class when I was at an internship site. Everything I learned will eventually be applied in this job."

Pollert hopes the success of the first class can serve as a springboard for future students.

"We have the next group of students enrolled right now, so the hope is that every year we are producing employees who are skilled and ready to work," said Pollert. "NDSCS has a terrific facility, and I think we are just scratching the surface as to what this program can become."

In the future, Pollert hopes that other Komatsu distributors will join General Equipment in sending students to the NDSCS program. Early indicators are positive as the Komatsu program will have 16 students beginning classes this fall. ■



Ann Pollert,
General Equipment &
Supplies Technician and
Career Developer

(L-R) General Equipment Vice President of Service Steve Stafki meets with Komatsu Diesel Program graduates Alex Lass, Nathan Dokkebakken, Grant Davis, Alex Christensen, Landon Caughey and General Equipment Technician and Career Developer Ann Pollert.



Komatsu, Cummins announce global corporate responsibility partnership

Komatsu and Cummins have enjoyed a strong business relationship, including working together for decades to provide equipment in mining and construction markets. Recently, the two companies strengthened their ties with a new global corporate responsibility partnership.

"We share a common commitment to producing and supporting products in a responsible manner, as well as promoting education and improving opportunities for the people in the communities where we do business," said Tetsuji Ohashi, CEO of Komatsu Ltd. "A partnership that helps the people of our communities will make our

business relationship stronger. It is with great enthusiasm that Komatsu enters into this global collaboration with a trusted partner like Cummins."

Both companies have invested in technical education in their communities. Prior to formalizing this global relationship, Cummins and Komatsu partnered in other community projects. In the United States, Cummins and Komatsu, along with other partners, launched the Diesel Technicians Pathways Program in Utah that includes two high school diesel programs as well as a community college program. ■

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WINNING TEAM

Komatsu partnership creates mutual benefits for Extreme Sandbox and local distributors

For Extreme Sandbox Founder and CEO Randy Stenger, 2016 has been a banner year. After appearing on ABC's "Shark Tank," business has been booming for the company. Extreme Sandbox formed an exclusive partnership with Komatsu and opened a second location north of Dallas, in addition to its original site in Hastings, Minnesota.

Through its partnership with Komatsu, Extreme Sandbox's two locations have developed a close relationship with local Komatsu distributors.

"Both distributors are first-class all around, and they were instrumental in helping us make the switch to Komatsu," said Stenger. "It's been great to have local partners."

In addition to providing machines and service for Extreme Sandbox, the relationship gives the distributors the opportunity to host events like product demonstrations and participate in High School Heavy Equipment Camps, which are designed to provide students with information about careers in the industry and give them hands-on experience with the equipment.

"We started these camps because we noticed a skills gap," said Stenger. "High schools don't have the resources to do things like this, so we came up with a way to help kids experience various equipment. It's been a great way to get the students excited about the industry."

Excellent facilities

One of the major bonuses for distributors is having a top-notch facility so close that can be utilized for product demonstrations.

"To give customers a definite address to a product demonstration is amazing," remarked

Dave Johnson, Chief Operating Officer at Road Machinery & Supplies Co., the Komatsu distributor in Minnesota. "The 10-acre site is specially designed for using heavy equipment; we can do everything we want to do there. Plus, if the weather is bad, we are able to move inside to their 6,000 square-foot facility that has three garage bays and a classroom. This is a far better alternative to standing in an open field with a tent."

Kirby-Smith Machinery Dallas Branch Manager David Cooper echoed those comments. "The site is great for us, as it's in the middle of our company's service area. The location features a restaurant, golf course, hotels, fishing and a pool. It's first-class."

For Extreme Sandbox and the distributors, it's a win-win relationship.

"The benefits extend beyond a dealer-customer one," explained Johnson. "We are proud to work with Randy and Extreme Sandbox, and we are very excited to see how the relationship continues to grow in the future." ■



▶ VIDEO
Randy Stenger,
Extreme Sandbox
Founder/CEO

The Extreme Sandbox location in Hastings, Minnesota, features a 10-acre area for machine demonstrations and a 6,000-square-foot facility complete with a three-bay garage and classroom space.



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SERIES INTRODUCTION

Wirtgen Group launches new Vögele paver series with release of Super 2000-3i



Discover More

The Wirtgen Group recently unveiled its new 10-foot tracked Vögele Super 2000-3i that refines the productive features of the Vision paver (5200-2i) it replaces and elevates asphalt paving to a new level of performance. The Super 2000-3i introduces a new group of wheeled and tracked pavers that will eventually supplant the acclaimed Vision series.

“The Super 2000-3i is designed primarily for use in highway construction and large-scale commercial applications, where power and productivity are paramount,” said Wirtgen District Sales Manager Andy Kazanis. “It features a basic width of 10 feet, a maximum

paving width of 28 feet and has a top placement rate of 1,540 tons per hour. It will lay a lot of asphalt quickly and efficiently.”

Three main components define the power unit of the Super 2000-3i: its modern, liquid-cooled diesel engine; a splitter gearbox flanged directly to the engine; and a large cooler assembly. The powerful six-cylinder Tier 4 Final engine rated at 250 horsepower drives the paver through even the most robust applications. It is also fuel-efficient and has an *ECO mode* that is sufficient for many applications. A large cooler assembly ensures that the power unit always delivers its full output.

The Super 2000-3i has an innovative and reliable drive concept for accurate tracking. All drive components, including a three-phase generator, are supplied from the central splitter gearbox and operate at maximum efficiency. High-traction crawler tracks efficiently convert drive power into forward motion.

ErgoPlus 3

ErgoPlus 3 is the latest version of Vögele’s operating system, now enhanced with a number of ergonomic and functional features. With its new mounting system, the paver operator’s console can be shifted even more conveniently and easily between the right and left sides of the operator’s stand. In addition, it now has a large color display that ensures good readability even in poor lighting conditions.

“Vögele focused on the operator when designing the Super 2000-3i,” said Kazanis. “Ergonomics, safe operation and operator comfort were key design elements. Vögele’s commitment is to provide the highest quality machine and the industry’s most reliable paver.” ■

The Vögele Super 2000-3i is designed primarily for use in highway construction and large-scale commercial applications.

Quick Specs on the Vögele Super 2000-3i

Model	Max Paving Width	Max Laydown Rate	Transport Width
Super 2000-3i	28 ft 3 in	1,540 tons per hour	10 ft



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USED EQUIPMENT PRICED TO SELL

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Manufacturer/Model	Description	Serial No.	Year	Hours	Price
CRAWLER DOZERS 					
KOMATSU D375A-6	U BLADE, SS RIPPER	60060	2012	1,697	POR
KOMATSU D375A-6	U BLADE, SS RIPPER	60053	2011	5,928	\$570,000
KOMATSU D155AX-7	SU BLADE, MS RIPPER	90173	2014	1,263	POR
KOMATSU D85EX-15E0	SU BLADE, MS RIPPER	11429	2008	4,467	\$195,000
KOMATSU D65WX-17	PAT BLADE, MS RIPPER	1873	2013	2,461	POR
KOMATSU D65EX-17	PAT BLADE, MS RIPPER	2268	2014	1,774	POR
KOMATSU D65PX-17	STRAIGHT BLADE	1987	2014	1,476	POR
KOMATSU D61EX-15	PAT BLADE, MS RIPPER	B40438	2005	2,501	\$130,000
KOMATSU D61PX-15E0	PAT BLADE	B45648	2008	6,282	\$110,000
KOMATSU D51EX-22	PAT BLADE, MS RIPPER	B13348	2014	729	POR

WHEEL LOADERS 					
KOMATSU WA500-7	7.5 YD BUCKET, STICKSTEER	10214	2013	9,443	\$185,000
KOMATSU WA500-7	8 YD BUCKET, STEERING WHEEL	10014	2012	4,112	POR
KOMATSU WA470-7	5.5 YD BUCKET	10168	2014	4,270	POR
KOMATSU WA470-6	BUCKET	90750	2012	6,090	\$240,000
KOMATSU WA450-3MC	BUCKET, ECSS, SCALE	A35007	1999	21,082	\$35,000
KOMATSU WA380-6	QC, MONO LEVER, BUCKET	A53500	2008	5,180	POR
CAT 992G	ROCK BUCKET	ADZ00131	2000	39,952	POR
VOLVO L180	CHIP BUCKET	L180GE0001950	2012	5,307	\$165,000

HYDRAULIC EXCAVATORS 					
KOMATSU PC600LC-7	14' ARM, QC, 72" BUCKET	20170	2006	11,600	POR
KOMATSU PC600LC-8	11'7" ARM, QC, 36" BUCKET	55098	2008	10,273	POR
KOMATSU PC490LC-10	13' ARM, QC, THUMB	A40160	2012	3,325	POR
KOMATSU PC350HD-8	10'6" ARM, QC, THIRD MEMBER HYDS	A00022	2011	5,782	POR
KOMATSU PC308USLC-3E0	11'6" ARM, QC	30046	2006	8,194	\$98,900
KOMATSU PC270LC-8	11" ARM, QC, THUMB, 48" BUCKET	A87403	2010	3,155	\$187,000
KOMATSU PC210LC-10	9'7" ARM, QC, THUMB, 48" BUCKET	450103	2012	4,541	POR
KOMATSU PC138USLC-10	8' ARM, QC, ROADLINERS	42056	2015	1,157	POR
CAT 330D	QC, BUCKET	330DVNBD00541	2007	9,405	\$104,000
CAT 328D	QC, 42" BUCKET, AUX HYDS	GTN00214	2007	5,763	\$137,000
CAT 325D	QC, BUCKET, THUMB	A3R00363	2006	6,515	POR
CAT 420E	CAT LOADER, BACKHOE LOADER	HLS01754	2006	4,385	\$49,000

MOTOR GRADERS 					
KOMATSU GD655-5	14' BLADE, RIPPER	55062	2011	3,031	\$185,000
KOMATSU GD655-3E0	14' BLADE, RIPPER	51614	2008	2,191	\$212,500
KOMATSU GD655-3E0	14' BLADE, RIPPER	51683	2008	3,341	\$180,000
CAT 14M	16' BLADE, RIPPER, TOPCON BOX	R9J00259	2011	2,320	\$405,000

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FORESTRY EQUIPMENT 					
TIMBCO 445EXL	BUNCHER, 22/360	FT4C2721120505	2006	12,537	\$149,500
TIMBCO 445FXL	BUNCHER, QUADCO 2900	FT4C2942102907	2007	9,605	\$140,000
TIMBER PRO TL735B	BUNCHER, 22B360VI	TL735B0117101911	2011	6,621	\$295,000
TIMBER PRO TL735B	BUNCHER, 22" TITAN	TL735B0263061614	2014	4,000	\$465,000
VALMET EX10	370E PROCESSING HEAD	ET4C2842120506	2006	8,271	\$152,000
KOMATSU PC290LC-10	11'6" ARM, 398 PROCESSING HEAD	15043	2013	703	POR
KOMATSU PC350LL-7E0	LOG LOADER	A50010	2012	4,891	\$260,000

OFF-ROAD TRUCKS 					
KOMATSU HD325-7	RIGID FRAME, 31 YD, PAYLOAD SYSTEM	7353	2009	19,798	\$95,000
KOMATSU HM400-3	ARTICULATED TRUCK, TAILGATE	3750	2014	2,907	POR
KOMATSU HM400-3	ARTICULATED TRUCK, TAILGATE, HEATED BED	3229	2013	4,321	POR
KOMATSU HM400-3	ARTICULATED TRUCK, TAILGATE, HEATED BED	3446	2013	4,750	POR
KOMATSU HM300-3	ARTICULATED TRUCK, TAILGATE	3127	2013	3,187	POR
KOMATSU HM300-3	ARTICULATED TRUCK, TAILGATE	3129	2012	3,669	POR
KOMATSU HM300-2	ARTICULATED TRUCK, TAILGATE	2868	2011	3,477	POR
KOMATSU HM300-2	ARTICULATED TRUCK, TAILGATE	2315	2007	6,805	POR

AGGREGATE EQUIPMENT					
NORDBERG 1560	CONE PLANT	1560331	1991		\$375,000
NORDBERG 1352	CONE PLANT	122			\$136,500
SYMONS 4.25	5X16-3 PORTABLE CONE PLANT	41607	1971		\$105,000
SYMONS 36"	SHORT HEAD CRUSHER	ES317750			\$37,000
METSO HP400	PORTABLE METSO CONE, STD. CRS	2012F025	2013	406	POR
METSO HP300	CONE PLANT	127824	2012	1	POR
METSO C116	JAW PLANT, VGF, SW. GEAR	S14JPT0092	2013		POR
KPI-JCI 2650	JAW PLANT W/50X20 FEEDER	414274	2015	368	\$505,000
KPI-JCI GT440	TRACK MOUNTED IMPACTOR	414558	2015	1,420	\$570,000
PIONEER FT2650	TRACK MOUNTED JAW	411550	2012	2,858	\$370,000
METSO LT106	TRACK MOUNTED JAW CRUSHER	77341	2013	1,933	\$350,000
METSO LT96	TRACK MOUNTED JAW CRUSHER	78407	2015	539	\$479,000
KPI-JCI 6203-32	6X20 TWIN SCREEN PLANT	PT620347315	2015	1	\$490,000
KPI-JCI 6203-32	SCREEN PLANT	P151853	2015	1	POR
METSO ST2.4	TRACK MOUNTED SCREEN	77350	2013	1,033	\$183,000

COMPACTION					
HAMM 3412	84" HAMM SMOOTH SINGLE	H1800704	2008	4,627	\$60,000
HAMM 3412	84" HAMM SMOOTH SINGLE	H1802557	2013	987	POR
HAMM 3412	84" HAMM SMOOTH SINGLE, EROPS	H1802583	2013	1,852	POR
HAMM HD+140IVVHF	84" HAMM ASPHALT	H2070055	2014	1,541	POR
HAMM HD+120VO	78" HAMM ASPHALT, OZZIE	H1840202	2010	1,930	POR
HAMM HD0120V	78" HAMM ASPHALT, OZZIE	H1820070	2008	2,635	\$95,000
HAMM HD+110VO	66" HAMM ASPHALT, OZZIE	H1850332	2012	599	POR
HAMM HD+70IVO	59" HAMM ASPHALT, OZZIE	H1860027	2014	565	POR
HAMM GRW280-15	8 WHEEL PNEUMATIC ROLLER, OROPS	H1950327	2012	1,029	POR
DYNAPAC CP274	DYNAPAC PNEUMATIC ROLLER	10000502J0B001384	2012	1,130	POR

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