

POWER

EQUIPMENTEER

KOMATSU



A publication for and about Power Equipment Company's customers • www.PowerEquipmenteer.com • January 2023



**Duracap
Asphalt Inc.**



**Camden Guyton,
General Manager**



**Frank A. Rogers
& Company Inc.**

**Taylor Meharg,
President**

A Message from Power Equipment Company



Andy Moon

**Ready for
the latest
construction
innovations?**



Dear Valued Customer:

CONEXPO-CON/AGG — the largest equipment show in North America — is about to return. We're excited to learn about the latest innovations in machines and technology for the construction industry. If you've attended before, you understand the value of the show. If you haven't, we encourage you to check it out. This issue includes a preview of CONEXPO-CON/AGG that has information about where our manufacturing partners' exhibit spaces will be located.

As one of the leading manufacturers at CONEXPO-CON/AGG, Komatsu will showcase some of its most innovative machines and Smart Construction solutions. Inside, you will find an article about how one Komatsu user is saving valuable time and money by uploading files remotely rather than driving to the job site, thanks to Smart Construction Remote.

Drones can also be a solid investment for your business. We can help you learn about using Komatsu's Smart Construction Drone to survey and measure your sites.

Even though these new technologies increase efficiency and production, it still takes well-maintained equipment to get the job done. A PM (preventive maintenance) clinic provides a detailed inspection of your machines to help keep them running like new. Call our service department or your sales representative to set one up.

There are also articles that feature new products that can help your business increase production, including Komatsu's new HD1500-8E0 mechanical haul truck.

As always, if there is anything we can do for you, please feel free to contact one of our branch locations.

Sincerely,
Power Equipment Company

A handwritten signature in black ink, appearing to read "Andy Moon".

Andy Moon,
President

In this issue

Frank A. Rogers & Company Inc. pg. 4

Read about this Arkansas-based firm's recent expansion.

Duracap Asphalt Inc. pg. 8

See how this full-service paving contractor operates a quarry and recycles construction products in the Knoxville, Tenn., area.

Guest Opinion pg. 13

Learn how to safeguard your equipment.

Industry Event pg. 14

Get a glimpse of CONEXPO-CON/AGG 2023.

Product Insight pg. 16

Find out which tight tail swing excavator is right for you.

Product Improvement pg. 18

Check out Komatsu's new PC490LCi-11 iMC 2.0 excavator.

Tech Talk pg. 21

Examine five ways drones can be beneficial to your job sites.

Customer Success Story pg. 24

Discover how Tomahawk Construction controls costs.

Proactive Approach pg. 26

Understand the importance of preventive maintenance clinics.

New Truck pg. 29

Take a look at Komatsu's new HD1500-8E0 mechanical haul truck.

POWER
EQUIPMENT

www.powerequipco.com

An equal opportunity, affirmative action employer

KOMATSU

Published for Power Equipment Company.
© 2022 Construction Publications Inc. Printed in the USA.

Leadership Team

Andy Moon,
President

Shawn Robins,
Vice President,
Product Support

Tim Hancock,
General Manager,
Credit & Finance

Mike Luster,
Vice President,
Regional Sales Manager
(Nashville)

Darryl Thompson,
Vice President,
Regional Sales Manager
(Memphis, Tupelo, Little Rock)

Justin Kiser,
Regional Sales Manager
(Knoxville, Kingsport, Chattanooga)

Tim Hooper,
Regional Branch Manager,
Northwest Arkansas

Brian Bourne,
Sales Manager,
Central and South Arkansas

Aaron Kiser,
Corporate Rental Sales Manager

Steve Woodby,
Corporate Sales Administration
and Inventory Manager

Jami Frank,
Marketing Coordinator

Nashville (La Vergne), TN

320 Waldron Drive
(615) 213-0900
(800) 873-0962
Drill Sales: (615) 641-3000

Chattanooga, TN

4295 Bonny Oaks Drive
(423) 894-1870
(800) 873-0963

Memphis, TN

3050 Ferrell Park Cove
(901) 346-9800
(800) 873-0965

Knoxville, TN

3300 Dozer Lane
(865) 577-5563
(800) 873-0961

Kingsport, TN

1487 Rock Springs Road
(423) 349-6111
(800) 873-0964

Tupelo (Saltillo), MS

1545 Highway 45
(662) 869-0283
(800) 873-0967

Little Rock, AR

2801 W. 65th Street
(501) 823-4400

Springdale, AR

781 E. Randall Wobbe Lane
(479) 927-1672

Arkansas-based Frank A. Rogers & Company Inc. expands its capabilities with new development division, iMC dozer



Taylor Meharg,
President

Under a new company head, Frank A. Rogers & Company Inc. (FARCO) has expanded its already long list of construction services with the addition of a site development division.

"We're a full-service general contractor located in Newport, Batesville, Jonesboro and West Memphis, Arkansas," said FARCO President Taylor Meharg, who has been leading the nearly 60-year-old company since March of 2021. "We had been renting machines for over a year and had moved off into doing a lot of our own sitework, so we added a site development division on a full-time basis. We had guys that had surveying experience and very wide-ranging experience in different types of sitework, so we were able to successfully add this division without having to add a whole new division of people. The division adds to the broad range of self-performing abilities at our company. We do concrete, metal erection, carpentry, painting and electrical."

According to Meharg, the expansion was important because being able to self-perform sitework helps cut costs for customers and makes FARCO more profitable. The new site development division also gives FARCO the ability to maintain production deadlines.

"We use this division as needed for our high-priority and time-sensitive projects,"

said Meharg. "When we really need to get in there and get the job done, that's when the new division shines."

Groundbreaking equipment

The site development division's most recent project was a 52,000-square-foot commercial building in Wynne, Ark., that included 4 acres of pads.

To complete the project, FARCO used a Komatsu D39PXi-24 intelligent Machine Control (iMC) dozer the company acquired in June of 2022 from Power Equipment Company. According to Meharg, the dozer helped FARCO save approximately 10% to 20% on costs, compared to a similar project the company did a year ago with rental equipment. Meharg also noted that the iMC is the main feature that helps FARCO reduce expenses.

"We have engineers and people with surveying backgrounds on staff," said Meharg. "With the iMC technology, we can take an idea from a customer on a napkin, get it to a civil CAD (computer-aided design) file, send it out to the equipment, and it never leaves house. Having that ability gives us more control of a project and ultimately can drive down the cost for the customer."

FARCO has also found that the D39PXi-24 cuts down on the amount of time spent surveying.

With a Komatsu D39PXi-24 intelligent Machine Control (iMC) dozer, an operator moves material to grade.





▶ VIDEO

FARCO's new Komatsu D39PXi-24 iMC dozer helps increase efficiency on job sites. Operator Beau Davidson commented, "The iMC technology has sped up material handling on the job site and takes the guesswork out of having to check grade traditionally. The D39 has saved us a lot of money on this project alone."

"We can do most of our surveying with one piece of equipment rather than having several guys out here doing the fine grading," said Meharg. "The level of accuracy you get with iMC is an upgrade over traditional equipment, and I think even the best operators in our company would agree with me that it makes their job easier and helps get the project done faster."

A timely production rate is paramount for FARCO to ensure projects get done before weather intervenes.

"Time is money in this business, and that is not just getting onto the next project," said Meharg. "We have such a critical working season in this part of the state. When it gets wet in northeast Arkansas, you can really be shut down for a significant period of time. If you don't get in there and get your projects to the point where you can work through the winter, then you're in a bad position. With this dozer and site development crew, we can avoid that."

While the D39PXi-24 has the power to handle larger projects, FARCO typically uses the machine on tighter job sites.

"A lot of our jobs aren't very large, and you have to maneuver around other equipment, buildings and people," said Meharg. "The D39 was the perfect size because it is so adaptable to different-sized projects and allows us to work in a safer way."

Operator Beau Davidson added, "I like the visibility. The forward-mounted cab really helps a lot. I think the D39 is very valuable to us just because you can still use it to handle quite a bit of material, but at the same time you can still use it for a lot of finish work."

Great service experience

FARCO turns to Power Equipment for any equipment needs and has been very satisfied with their relationship.

"We have had phenomenal service and support from Power Equipment," said Meharg. "It has been a great experience for our company, and the dozer has been perfect for our new division."

Davidson added, "We had a few hiccups initially, but Power Equipment worked with us as fast as humanly possible to get the



Discover more at
PowerEquipmenteer.com

Continued...

'Nothing but good things to say'

... continued



An operator pushes rock with a Komatsu D39PXi-24 iMC dozer. "The D39 was the perfect size because it is so adaptable to different-sized projects and allows us to work in a safer way," said FARCO President Taylor Meharg.

issue resolved. Since then, we haven't had any issues. Everybody's been friendly and really easy to work with, from the technology side of it all the way down to the actual diesel mechanic side of it. It didn't really feel like we were being put on the back burner like you do with a lot of service departments."

To get the most out of its fleet, FARCO relies on Power Equipment Territory Manager Corey Southerland.

"Corey has been great, and I have been working with him for a long time," said Meharg. "I have nothing but good things to say about him and Power Equipment because they have educated us on how to use these systems that are new to our company."

Evaluating for the future

Moving forward, FARCO will stay on its current path while keeping an eye on future growth.

"We'll continue to monitor the market," said Meharg. "Our company's growing very quickly, and we're increasing sales year over year. We may get to a point where we need to upsize our site development fleet. I just want to monitor it, and make sure it's operating well before we expand more." ■

(L-R) Power Equipment Company's Corey Southerland works with FARCO's Lane Runyan, Taylor Meharg and Beau Davidson. "Corey has been great, and I have been working with him for a long time," said Meharg. "We have had phenomenal service and support from Power Equipment."



BUILT FOR PERFORMANCE

TAKEUCHI

From World First to World Leader



Takeuchi has been a trailblazer in the construction equipment industry since 1963. With a full line of compact track loaders, excavators, wheel loaders, and attachments, Takeuchi is guaranteed to have the right machine for the job.

TFM is available on most models.
See your dealer for details.



Learn more about Takeuchi's full product line takeuchi-us.com

POWER

EQUIPMENT

LITTLE ROCK, AR
2801 W. 65th Street
(501)-823-4400

SPRINGDALE, AR
781 E. Randall Wobbe Lane
(479)-927-1672

TUPELO, MS
1545 Highway 45
(662) 869-0283
1-(800) 873-0967

KNOXVILLE, TN
3300 Dozer Lane
(865) 577-5563
1-(800) 873-0961 (TN)

MEMPHIS, TN
3050 Ferrell Park Cove
(901) 346-9800
1-(800) 873-0965 (TN)

CHATTANOOGA, TN
4295 Bonny Oaks Drive
(423) 894-1870
1-(800) 873-0963 (TN)

KINGSPORT, TN
1487 Rock Spgs. Road
(423) 349-6111
1-(800) 873-0964 (TN)

www.powerequipco.com

Duracap Asphalt Inc. offers paving, recycling and quarry services in the Knoxville, Tenn., area



Camden Guyton,
General Manager



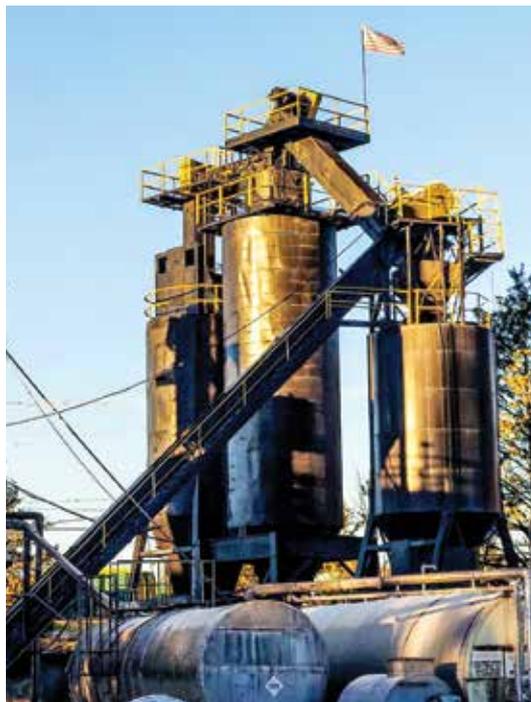
Discover more at
PowerEquipmenteer.com

Founded by Howard Cockrum in 1960, Duracap Asphalt Inc. is a full-service paving contractor that also operates a quarry and recycles construction products. The company performs ground-up paving jobs in Knoxville, Tenn., and its surrounding counties.

Duracap General Manager Camden Guyton is a second-generation employee as his father, Joe Guyton, has been the president since the 1980s.

"I started at Duracap when I was 18 years old right after high school in 1999," said Camden. "I worked my way up starting as a laborer and then went to the shop, to crews, to plants, to concrete foreman, and then was a grading superintendent before becoming general manager. Since I've joined, we've grown every branch and added on several crews. We've been continuously wanting to grow and expand."

Tackling a variety of projects, Duracap partakes in anything from apartment buildings to Tennessee Department of Transportation (TDOT) paving projects. From the stone up, the company can handle all aspects of a job, and



Duracap Asphalt Inc. has four asphalt plants, including two in Knoxville, one in Lenoir City, and one in Bean Station. The plants provide material for Duracap and third-party customers.

Duracap's operations include the manufacture and paving of asphalt, basic grading, extruded curb, and curb and gutter.

Duracap has four asphalt plants, including two in Knoxville, one in Lenoir City, and one in Bean Station. The plants provide material for Duracap and third-party customers.

"We strive to separate ourselves by doing a quality job that looks good and pleases not only us but the customer," said Camden. "We have a lot of customers who we have worked with over the years. It's a great relationship we have with them that goes both ways."

Quarry and material recycling services

Aside from asphalt operations, Duracap operates a full-service limestone quarry in Tazewell, Tenn. The limestone is used for asphalt plants, driveways, drainage fields and more.

The company's quarry utilizes a Komatsu PC750-6 excavator, a Komatsu PC490LC-11 excavator and a Komatsu HM400-5 articulated truck. Duracap appreciates the power of the PC750 and the mobility of the PC490.

"The 750 and 490 load our articulated trucks," explained Camden. "All our Komatsu excavators are very reliable."

Duracap also offers material recycling services.

"We take demo concrete from demolition contractors and from internal projects that we have demoed," said Camden. "We take all the concrete and recycle it back to a usable product. We'll use it on some of our jobs to put down road base. Larger stones can be used to improve subgrade, and we'll put the base stone on top of it and pave on top of that. It's a good process to recycle concrete and reduce landfill waste."

To enhance productivity at its recycling operation, Duracap uses two Komatsu PC360LC-11 excavators.

"We use the 360s at the plant to load the crusher with material we are going to recycle," said Camden. "It's an all-around good size for handling stockpiles. It has the right amount of power to load material into the crusher."



An operator moves asphalt millings with a Komatsu PC360LC-11 excavator at Duracap's recycling operation. "It's an all-around good size for handling stockpiles," said Duracap General Manager Camden Guyton. "It has the right amount of power to load material into the crusher."

New machines

For all its equipment needs, Duracap turns to Power Equipment Company and Territory Sales Manager Aaron Dockery.

"They've been on call, and they go over and above for customer service," said Camden. "If we have a problem, they'll take care of it quickly. They're loyal to their customers. Aaron has been very good about communication, answering the phone and getting quotes on machines. He's been on top of it, and we have a great relationship with Aaron and Power Equipment."

Duracap recently purchased a Komatsu D51PXi-24 intelligent Machine Control (iMC) dozer to improve the productivity of its grading crew that often handles small grading projects, such as apartment complexes.

"The machine is tied in with our GPS layouts, and that simplifies our jobs," said Camden. "We invested in the iMC machine to make it a little bit more efficient on that end. Anyone could run the machine because the blade adjusts itself depending on how much material is on the blade to carry it to grade."

The size of the dozer allows Duracap to quickly move it between job sites on a lowboy without extra permitting.



With a Komatsu D51PXi-24 intelligent Machine Control (iMC) dozer, Duracap General Manager Camden Guyton pushes material at an asphalt plant. "The machine is tied in with our GPS layouts and that simplifies our jobs," said Camden. "We invested in the iMC machine to make it a little bit more efficient on that end."

Camden stated, "It's key to have that mobility because in the asphalt industry you don't have a project that you stay on for days, weeks or months. You might be there for two or three days."

Continued...

'The machine worked flawlessly'

... continued

To expand its operational capabilities, the company added a WIRTGEN W 210 Fi cold milling machine and a full-time milling crew to tackle a 6.5-mile mill-and-fill project on Kingston Pike in Knoxville.

"We've owned some milling machines in the past, but we upgraded to this one to service this job," said Camden. "The machine worked flawlessly, and it has allowed us to push for larger milling projects. The technology integration and additional power of the

WIRTGEN stand out and allow us to achieve a higher efficiency of work, which allows us to take on more projects."

Looking ahead

Duracap plans on continuing down its current path of expansion.

"As long as the economy and the projects are here in Knoxville, we are going to continue to grow and seek new ventures," said Camden. ■



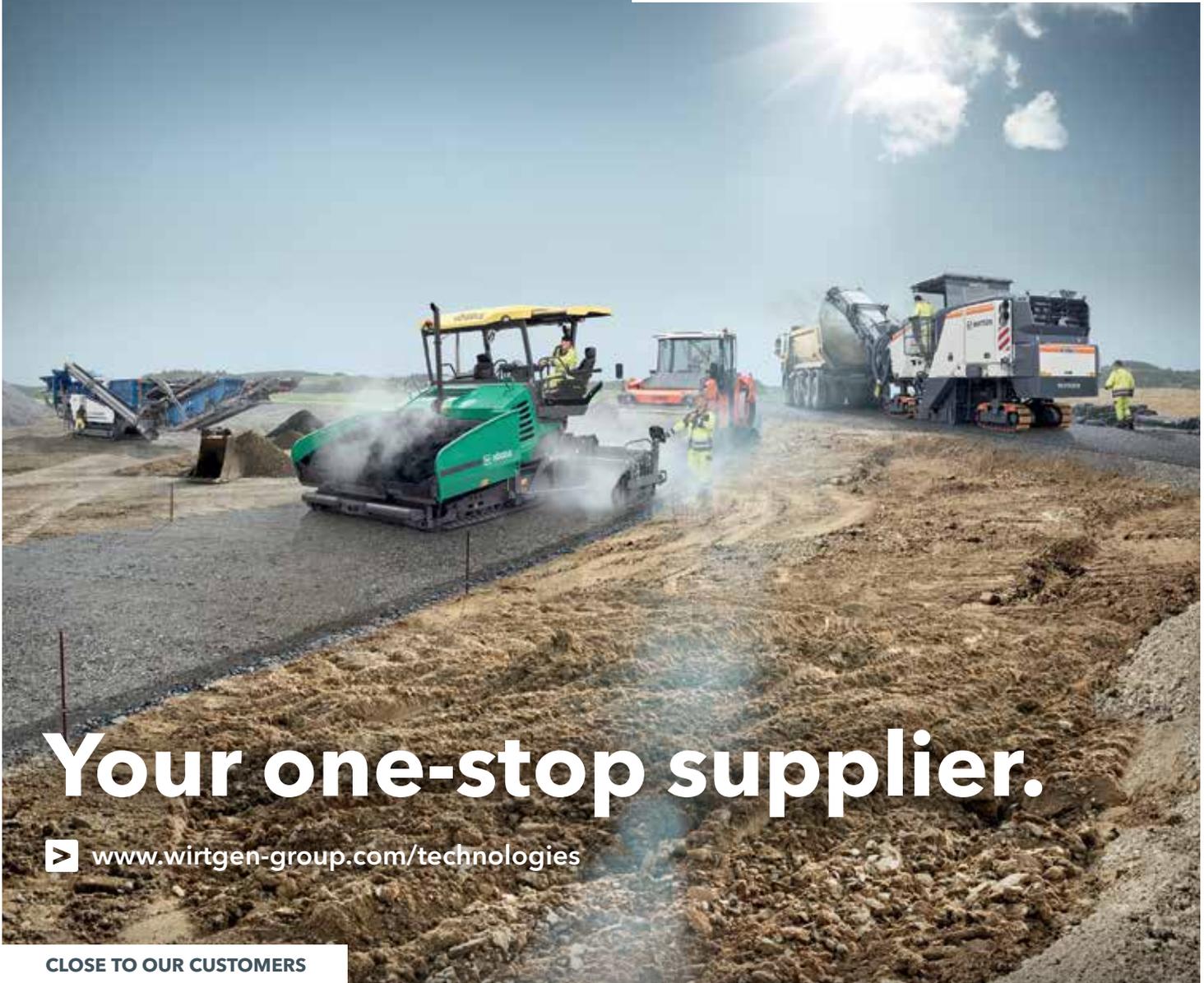
(L-R) Duracap's Camden Guyton and Power Equipment's Aaron Dockery discuss the features on Duracap's WIRTGEN W 210 Fi cold milling machine. "The technology integration and additional power of the WIRTGEN stand out and allow us to achieve a higher efficiency of work, which allows us to take on more projects," said Camden.



(L-R) Duracap's Kevin Cox and Camden Guyton speak with Power Equipment's Aaron Dockery. "Aaron has been very good about communication, answering the phone, and getting quotes on machines," said Camden.

An operator uses a Komatsu PC360LC-11 excavator to scoop material at the Forks of the River location in Knoxville. "The Komatsu excavators that we use have lots of speed, agility, and are operator-friendly," said Duracap Asphalt Plant and Crushing Superintendent Kevin Cox. "They are tried and tested and are perfect for loading our asphalt plant and at our crusher."





Your one-stop supplier.

▶ www.wirtgen-group.com/technologies

CLOSE TO OUR CUSTOMERS

ROAD AND MINERAL TECHNOLOGIES. With leading technologies from the WIRTGEN GROUP, you can handle all jobs in the road construction cycle optimally and economically. Put your trust in the WIRTGEN GROUP team with the strong product brands WIRTGEN, VÖGELE, HAMM, KLEEMANN.

▶ www.wirtgen-group.com

WIRTGEN



VÖGELE



HAMM



KLEEMANN



www.powerequipco.com

KNOXVILLE

3300 Dozer Lane
Knoxville, Tennessee 37920
(865) 577-5563
1-(800) 873-0961 (TN)

MEMPHIS

3050 Ferrell Park Cove
Memphis, Tennessee 38116-3502
(901) 346-9800
1-(800) 873-0965 (TN)

CHATTANOOGA

4295 Bonny Oaks Drive
Chattanooga, Tennessee 37406
(423) 894-1870
1-(800) 873-0963 (TN)

KINGSPORT

1487 Rock Spgs. Road
Kingsport, Tennessee 37664
(423) 349-6111
1-(800) 873-0964 (TN)

NASHVILLE

320 Waldron Drive
La Vergne, Tennessee 37086
(615) 213-0900
1-(800) 873-0962 (TN)

TUPELO

1545 Highway 45
Saltillo, Mississippi 38866
(662) 869-0283
1-(800) 873-0967



United. Inspired.

Powerful team

Working together to support your lineup.

Contact your Power location. We're proud to offer equipment from Epiroc.

KNOXVILLE, TN 3300 Dozer Lane
(865) 577-5563 • (800) 873-0961

CHATTANOOGA, TN 4295 Bonny Oaks Dr.
(423) 894-1870 • (800) 873-0963

NASHVILLE, TN (La Vergne) 320 Waldron Dr.
(615) 213-0900 • (800) 873-0962

MEMPHIS, TN 3050 Ferrell Park Cove
(901) 346-9800 • (800) 873-0965

KINGSPORT, TN 1487 Rock Spgs. Rd.
(423) 349-6111 • (800) 873-0964

TUPELO, MS 1545 Hwy 45
(662) 869-0283 • (800) 873-0967

POWER
EQUIPMENT

Safeguard equipment, keep insurance premiums in check with a few effective, yet simple, risk management steps

Tools and equipment used on construction sites are often subject to theft and vandalism — creating project delays and impacting costs. Over time, multiple claims may also increase insurance premiums. While not every loss can be prevented, there are improved methods for safeguarding construction equipment that go beyond fences and standard locks.

When creating a loss-prevention strategy, the following can help your construction clients protect their business property.

Anti-theft devices

Heavy equipment, vehicles and trailers, as well as areas where tools and building materials are kept, can be better protected during non-working hours when anti-theft/anti-vandalism devices are used. Options include high-security, pick-resistant locks that can be placed on steering wheels, axles and fuel tank caps. Other considerations can include the use of case-hardened security chains that can help secure smaller equipment, preventing items such as trailers from being easily moved off the premises.

Deactivation devices

These are simple, yet effective, tools for stopping thieves in their tracks. While there are many different types of deactivation devices on the market, the objective for each is the same: an immediate shutdown of equipment that is being tampered with, rendering it immobile.

GPS tracking devices

In the event of a theft, your clients have an improved chance of recovering stolen items if their equipment has a hidden GPS tracking device. Once the device is activated, law enforcement personnel can use the technology to reveal the equipment's location.

Night cameras

Nighttime security surveillance has vastly improved in recent years. Some of the best night camera security systems offer forward-looking infrared (FLIR) mapping that detects people, objects and vehicles on a construction site — even in inclement weather or low-visibility conditions. FLIR systems allow operations to be livestreamed from any location on a smartphone or other electronic devices.

Drones

Drones can assist in viewing or inspecting a job site when a suspicious activity has been detected or when an alarm has been triggered. Advantages over a security guard include the ability to patrol wide areas in less time and track a thief across long distances.

Deploying any of these methods can't guarantee that your construction client's equipment won't be damaged or stolen by thieves. However, they are good steps in the right direction. In many situations, occurrences can be reduced through appropriate risk management procedures. If an incident does occur, having the right insurance can help mitigate the financial impact of a loss. ■



Paul Hohlbein

About the Author:
Paul Hohlbein is co-president of Builders & Tradesmen's Insurance Services Inc., an Amynta Group Company. To learn more, email Paul at phohlbein@btisinc.com.

Safeguarding your assets is essential to avoid vandalism and theft, which can delay projects and prove costly in other ways such as higher insurance premiums. Taking precautions can help protect your property.



CONEXPO-CON/AGG will return to Las Vegas with additional exhibit space, focus on latest industry innovations

North America's largest construction trade show is right around the corner. CONEXPO-CON/AGG will return to the Las Vegas Convention Center on March 14-18, 2023. Held every three years, it features the latest in innovation and equipment from all sectors of the industry.

In addition to the approximately 1,800 exhibitors spread across 2.7 million square feet of exhibit space, the show will also have more than 150 educational sessions that highlight the latest topics and industry trends. The sessions are grouped into tracks such as aggregates, asphalt, business best practices, earthmoving and site development, equipment management and maintenance, and more.

During the last show in 2020, construction of the new West Hall and adjacent Diamond Lot on the site of the old Gold Lot was underway, as was the Tesla-powered underground people mover called the LVCC Loop. Both projects are now completed, and CONEXPO-CON/AGG and the co-located International Fluid Power Exposition (IFPE) will make full use of them.

"AEM (Association of Equipment Manufacturers, a co-owner and operator of CONEXPO-CON/AGG) and our show committees of industry leaders are working to take advantage of everything that has changed in Las Vegas to deliver a top-notch event delivering the latest innovations and best practices to help construction pros take their businesses and careers to the next level," said Dana Wuesthoff, Show Director of CONEXPO-CON/AGG 2023. "Between the West Hall and Diamond Lot bringing a lot of displays closer to the rest of the show as well

Manufacturer	Booth Number
Broce Manufacturing	S5944
EPIROC	C31348
Etnyre International	C31332
Fecon	D1456
Felco Industries	W43324
Genesis Attachments	C30034
Hensley Industries	W42028
Komatsu	W42044
LeeBoy	C31731
Montabert	W42229
Quadco	D1156
Rockland Manufacturing Company	W41367
Sennebogen	N10827
Takeuchi	N11843
Terramac	F8840
WIRTGEN GROUP	S5020 & W40844

CONEXPO-CON/AGG gives attendees the opportunity to see and learn about the latest machinery and innovations in the construction industry. The experience includes the ability to climb inside of equipment and talk with industry experts.



OVERVIEW MAP



CENTRAL HALL

Aggregates
Asphalt

Concrete
Safety

DIAMOND LOT

Business Operations
Concrete
Engines & Drivetrains
Hauling
Infrastructure Maint.
Jobsite Support

Land Clearing
Portable Power
Safety
Technology Solutions
Trucking
Underground

FESTIVAL GROUNDS

Earthmoving
Lifting

NORTH HALL

Business Operations
Earthmoving
Hauling
Jobsite Support

Land Clearing
Lifting
Safety
Technology Solutions

SILVER LOT

Aggregates
Asphalt

SOUTH HALL

1ST LEVEL
Equipment Components
Infrastructure Maint.
Portable Power
Trucking
Underground

2ND LEVEL
IFPE
Engines & Drivetrains

WEST HALL

Earthmoving



Komatsu will have one of the largest booths (W42044) in the West Hall with close to 20 machines and its Smart Construction solutions on display.

as serving as a connector to the Festival Lot and the LVCC Loop making it effortless to get across the entire Las Vegas Convention Center, it's never been easier for attendees to see everything they want to learn about when they get here."

Easier to get around

With an additional 1.4 million square feet of indoor space — including 600,000 square feet of "technologically advanced" exhibit space — the West Hall will be a hub for earthmoving and material handling displays. Komatsu will have one of the largest booths (W42044) in the West Hall with close to 20 machines and its Smart Construction solutions on display.

The Diamond Lot will have a variety of exhibits such as business operations, hauling, portable power and underground construction.

The LVCC Loop will transport attendees and make stops in the South Hall, the Central Hall and the Diamond Lot. Attendees can use the on-site shuttle service to get from the West Hall to the Festival Lot, which has the show's largest exhibits.

Next Level Awards

Another new feature at CONEXPO-CON/AGG and IFPE is the inaugural Next Level Awards

Program, which will celebrate exhibiting companies that are pushing the boundaries to develop next-level products, technologies and services that advance the construction industry. During the show, 10 finalists will be highlighted, and attendees can vote on-site to determine the Contractors' Top Choice.

The awards program is open to all 2023 exhibitors in good standing that have created products or services for the construction industry that have one or more of the following characteristics:

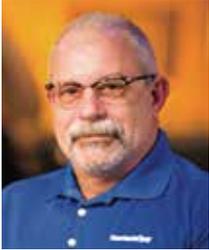
- Addresses a common industry need in a unique and innovative way
- Benefits the industry across multiple applications for industrywide adoption
- Positively impacts the safety, sustainability and workforce of the industry

"We are excited to recognize the innovative construction products that are taking the industry to the next level," said Wuesthoff. "Exhibitors, large and small, have an opportunity to be recognized for driving ideas and developing products or services to advance the industry. This is an exciting addition to CONEXPO-CON/AGG and IFPE, and we strongly encourage exhibitors to enter." ■



Register for the show at
CONEXPO-CON/AGG'S
website: <https://www.conexpoconagg.com>.

Which tight tail swing excavator is right for the job?



Kurt Moncini,
Senior Product
Manager,
Komatsu

Ensuring high production when digging in tight spaces and confined job sites can be challenging. Machines with traditional counterweights may not be ideal because of the likelihood they could swing into an obstruction, making tight tail swing excavators a much better fit. However, with so many tight tail swing sizes and models available, choosing the right one for the job takes some careful consideration.

"Tight tails allow operators to be more efficient because they typically have better situational awareness and can concentrate on the task at hand while reducing the chances of swinging into an obstruction or into a lane of traffic," stated Kurt Moncini, Senior Product Manager, Komatsu. "Typically, the upper structure is revolving within the confines of the undercarriage, which is why they are great for a variety of tasks in urban areas, or where space is limited."

To increase versatility, consider adding attachments such as blades or breakers to your tight tail swing excavators. Most of the machines are already plumbed and ready to run the right-sized attachments.

What's the digging depth?

According to Moncini, digging depth is an important consideration when choosing the right-sized tight tail swing excavator.

"Pipe typically comes in multiples of 8-foot sections, so taking that into consideration, I always like to look at the 8-foot level bottom digging depth because that's the maximum depth I can dig and excavate an 8-foot flat bottom section of trench," said Moncini. "As an example, if the required pipe run trench depth is 10 feet, my most efficient machine size will be one that can excavate an 8-foot level bottom to that depth. I need

to size the machine accordingly and try to go with the smallest tight tail that will do the job most efficiently."

How much do I have to lift?

Lift capacity is another major factor in choosing the right excavator. While you want to be able to move the machine as little as possible, you need to consider what you may need to move on-site in addition to digging.

"If you are excavating utility trenches in an urban environment, there is a good chance you will have to handle trench boxes and set steel plates to cover up the trench at night, or you may have to pick up and install heavy concrete pipe or structures," said Moncini. "It's vital to have a machine with sufficient lift capacity to handle the job. Ideally, I really want to be able to handle over the side as much as I can lift in front."

Moncini added, "The heavier the required loads become, the bigger the machine I'm going to need. Having a machine that can also lift the materials off the trailer when they arrive is important too. I need to be able to lift, handle and place materials until it's time to use them, then have the ability to rehandle and lay them in the trench."

Do I want versatility?

"Most smaller machines come standard with a blade, which extends versatility," said Moncini. "The ability to push material and backfill is an added advantage and may be able to eliminate an extra machine on the job."

Moncini also added that a blade can help you get better over-the-front lift capacity.

Additional tight tail swing versatility can be achieved by equipping the excavators with attachments such as breakers, but you must properly size them to the machine.

"If the job calls for breaking up old pavement or other concrete structures, you should first size the breaker for the task, then ensure the excavator is big enough to handle it and has the correct hydraulic flow to operate it," said Moncini. "There are a wide range of attachments — from compactors to mowers and more — that you can use with a tight





Komatsu manufactures eight tight tail swing models, ranging in size from the approximately 6,800-pound, 24.4-horsepower PC30MR-5 to the roughly 54,000-pound, 165-horsepower PC238USLC-11. "Tight tails allow operators to be more efficient because they typically have better situational awareness and can concentrate on the task at hand while reducing the chances of swinging into an obstruction or into a lane of traffic," stated Kurt Moncini, Senior Product Manager, Komatsu. "They are great for a variety of tasks in urban areas, as well as others, where space is limited."

tail swing. The good news is that most are already plumbed and ready for attachments."

Which boom design is right for me?

Komatsu manufactures eight tight tail swing models, ranging in size from the approximately 6,800-pound, 24.4-horsepower PC30MR-5 to the roughly 54,000-pound, 165-horsepower PC238USLC-11. There are five MR (minimum-radius) models and three US (ultra-short) models.

"The MR excavators have a swing boom, and the US models have a standard boom," Moncini noted. "Our MR design allows the operator to pivot the boom left or right to get right next to a structure and dig parallel to the tracks, so they are much more versatile. The advantage of a standard boom is that it's a little lower price point. Additionally, the standard boom overextends toward the back of the machine to tuck the bucket in tight."

What about tracks?

Track selection may play an important role when working in urban environments.

You want to avoid breaking up pavement, damaging sidewalks and ruining grassy areas.

"Having to fix an existing surface could be a major hit to your profit," said Moncini. "Our smaller tight tail swing excavators come standard with rubber-belted tracks. Not only do they minimize ground disturbance, but they are quieter and faster than steel tracks. Road liners, or conventional tracks with rubber pads, are very popular in our mid-sized to larger models when working on improved surfaces."

Who can I talk to?

For additional information, Moncini suggests consulting with your Komatsu distributor.

"Our distributors have the knowledge and expertise to help you determine the right-sized machine to most effectively get the job done," said Moncini. "Tight tail swings can be excellent tools for limited-space job sites and can also offer high production in open areas too. If you are not using them, consider checking them out to increase your versatility." ■

Editor's Note: To learn more about Komatsu's tight tail swing excavators, visit <https://www.komatsu.com/en/products/excavators>.



Proprietary iMC 2.0 promotes significant productivity gains and is now available on Komatsu PC490LCi-11 excavator



Learn more

Quick Specs

Model

PC490LCi-11

Net Horsepower

359 hp

Operating Weight

105,670-107,850 lbs.

Bucket Capacity

1.47-4.15 cu. yd.

Designed to lessen the skills gap between new and experienced operators and help improve the bottom line for contractors, Komatsu's largest intelligent Machine Control (iMC) 2.0 excavator, the PC490LCi-11, offers sophisticated productivity-enhancing automation. An excellent match for excavation, trenching, slope work or fine grading, the PC490LCi-11 helps minimize over-excavation to empower operators to dig straight to grade quickly and accurately.

Built on Komatsu's iMC platform and developed with input from leading construction companies, iMC 2.0 offers additional new features.

Upgraded iMC monitor

A new 10.4-inch iMC monitor features increased memory capacity, processing speed and pinch-to-zoom functionality in a smaller lightweight package for improved performance and ease of use.

Bucket angle hold control

The new bucket angle hold control helps operators reach final grade with speed and precision. It automatically holds the bucket angle to the design surface during arm operation, enabling operators to perform finish grading using only arm input.

Both features build upon the semi-automatic functions that were part of the first generation of iMC excavators, including the ability to switch from manual to semi-automatic mode. The existing technology and new features can help increase production and efficiency while reducing costs. ■

The PC490LCi-11 is Komatsu's largest intelligent Machine Control (iMC) 2.0 excavator. It's an excellent match for excavation, trenching, slope work or fine grading. New features include an upgraded iMC monitor and bucket angle hold control.





REACH YOUR EXCAVATOR'S POTENTIAL

POWER
EQUIPMENT



**WE HAVE A MULCHER FOR YOUR SIZE
EXCAVATOR 5 - 45 TONS**

SEVERE DUTY OR HEAVY DUTY MULCHERS

fecon.com

800.528.3113

FECON



Have you seen what's **new** in My Komatsu?

We've made some exciting changes! An all-new mobile app, simplified ordering through the Online Parts Store, Komatsu Care Program (KCP) integration and more have been added to enhance the My Komatsu user experience.

Log in to your My Komatsu account to see the full range of new features. Don't have a My Komatsu account? Go to mykomatsu.komatsu to sign up.

KOMATSU
My Komatsu

Five ways drones can help reduce costs and increase efficiency on construction sites

As technology continues to change the construction industry, a potentially dynamic investment companies can make isn't iron on the ground, but a drone in the sky.

Drones are more accessible than ever with relatively affordable prices and simple operating controls, which make it possible for any organization to start drone operation.

If you're ready to expand your fleet, here are five ways drones can help reduce costs and increase efficiency on your job sites.

1. Streamline communications

Being able to streamline information and connect your entire staff can help increase your workplace and job site efficiency.

With a timeline function, drones can take photographs from the same coordinates during the duration of a project to provide a timelapse of the progress. This can keep everyone up to date on the project's status.

"The drone technology allows us to have somebody go out and drone sites two to three times a week," said Greg Sutton, Vice President of Operations at Aspen Earthworks Inc. in Reno, Nev. "Even if I can't get out here and see what production has happened on a site, I still feel like I visited the job site through the drone technology."

2. Spend less time surveying

Depending on the site, conventional surveying can take days — with drones, it can take minutes.

"I think the greatest change after adopting drones or being exposed to drone usage is using the high accuracy survey grade data that they provide," said Jason Anetsberger, Director of Customer Solutions at Komatsu. "Instead of having to walk a site or drive a site to map it terrestrially, they can now fly the site in a much larger area, in much higher resolution, in much less time, and get a highly

Continued...

With a drone, a company can quickly and accurately collect objective data of its job site, and that information can be used to help increase productivity and efficiency in the field.



'It was incredibly easy to get started'

... continued

accurate survey of that terrain. It has opened a whole new world for contractors to extract value from utilizing a drone."

A company can quickly and accurately collect objective data of its job site with a drone, and that information can be used to help increase productivity and efficiency in the field.

3. Get accurate material estimates

Having the incorrect number of materials for a project can waste time and money. On construction sites, drones can quickly provide a precise representation of the area, so you can get an accurate estimate of everything you will need for the project.

During a preconstruction flight, you can compare the real site to the engineer's model, which allows you to fix any miscalculations. By correcting those errors, companies can quickly see a return on investment.

"We had a customer recently who realized they had to move 40,000 cubic yards more than what the engineer quantities were saying they needed to do at the beginning of the job," said Jim Petry, Construction Project Modeler for Komatsu. "For them, that was a big revelation. That was the first time that they used a drone. They quickly found a lot of value in it. They can see where their cut and fills are on the site, where that is taking place, and if it's a large site, they can make better decisions on equipment."

With more accurate measurements in the early stages of projects, companies can adjust their

fleets accordingly to help increase production and have more precise data collection throughout the process.

"Komatsu's Smart Construction Drone has enabled Aspen Earthworks to reach new levels," said Aspen Earthworks President Ryan Dustin. "With day-by-day information, it's enabled us to really dial in our estimating and our production rates that I believe have helped put us near the top of our market, and it was incredibly easy to get started. With that moment-by-moment information and real-time data, we can work with our project manager and superintendents to help us reorganize and redo the way we approach our dirt and utilities projects to increase efficacy."

4. Connect clients to every site

You can also use drone technology to quickly and accurately connect beneficiaries to the job site, which can help save time, avoid future headaches, and secure repeat clients.

"With drones, you can give clients confidence that they're getting the production that they're paying for," said Anetsberger. "That could help contractors secure future business. There's more trust in that relationship if you're feeding them near-real-time data or opening a digital twin, so they can follow alongside."

Plus, drones can reduce the amount of time spent providing documentation for invoices.

"Instead of spending a day doing that conventionally, you're doing the flight in just a few minutes and can accurately compare that against the last flight to be able to put their invoices forward and get paid as progress moves along," said Petry.

5. Create dynamic marketing content

Aside from using drones for surveying, they can also be used to collect photographs and videos on job sites, or even at the office, that can be used for marketing, recruitment and public relations campaigns.

The maneuverability of drones can create dynamic photographs and videos that a person on the ground simply cannot easily replicate. Also, you don't have to cut into your marketing budget for a camera.

While any drone can adequately survey, photograph and record a job site, Anetsberger and Petry recommend a robust model if you want high accuracy with good stability to get the most out of your investment. ■

Drones are more accessible than ever with relatively affordable prices and simple operating controls, which make it possible for any organization to start drone operation.



SAFE & DISCREET



Watch
the video



Meet our new compact breakers: the SD line. Innovative and ergonomic tool changing system, silenced for urban job sites, safer with hose protection and two lifting points: the perfect job site companion!

montabert.com
montabertusa.com



POWER
EQUIPMENT

ARKANSAS

Little Rock • 501-823-4400
Springdale • 479-927-1672

MISSISSIPPI

Tupelo (Saltlillo) • 662-869-0283

TENNESSEE

Chattanooga • 423-894-1870
Kingsport • 423-349-6111
Knoxville • 865-577-5563
Memphis • 901-346-9800
Nashville (La Vergne) • 615-213-0900

Montabert and the Montabert logo are registered trademarks of Montabert S.A.S. in the United States and various countries around the world, and is part of Komatsu Mining Corp. since 2017.

Tomahawk Construction utilizes Komatsu's Smart Construction Remote to control costs and maximize efficiency



Randall Hendra,
Project Surveyor

A mix of private, commercial and Department of Transportation (DOT) work keeps Tomahawk Construction and its approximately 90 employees busy year-round in Fort Myers, Fla. Established as a premier site development firm nearly 20 years ago, Randall Hendra came on board in 2014 to oversee surveying operations.

"I had my own surveying company and saw early on how GPS technology cut into my traditional role of surveying and staking sites," said Hendra. "Instead of fighting change, I decided to learn what GPS could accomplish. Since joining Tomahawk, we've transitioned from staking jobs to utilizing GPS technology for all of our projects."

With multiple active job sites spread across the greater Fort Myers area, Hendra is constantly monitoring job site progression. He relies on Komatsu's Smart Construction Remote — a software system that allows you to transfer files, support operators and locate machines from your computer — to work efficiently and keep projects on schedule.

"We do a lot of subdivision work, which means plans are continuously updating

and changing throughout the build," noted Hendra. "The demand for housing in the area means we're out the door and on the ground digging lakes and ponds before the plans are 100% finalized. With Smart Construction Remote, I'm able to update changes to our models and remotely send them to our GPS-equipped Komatsu machines without having to separately drive to each machine and install the file with a thumb drive.

"As soon as I upload the file to the machines, the operator can see the new plans and get to work," continued Hendra. "It's a huge time saver because I'm not driving an hour to each job site and tracking down each machine — it's just the stroke of a key, and I've saved myself half a day of work. From the operator's perspective, they're not wasting half a day following plans that have already changed. You can see how the cost savings and efficiency quickly build when you have multiple changes throughout the life of a project."

Expanding equipment

Tomahawk Construction currently utilizes approximately 10 Komatsu intelligent Machine Control (iMC) dozers and excavators.



A Tomahawk Construction operator cuts a road in the early stages of a project with a Komatsu D51PXi-24 iMC dozer. "In our experience, nothing works as well as Komatsu," said Project Surveyor Randall Hendra. "With Smart Construction Remote, I'm able to update changes to our models and remotely send them to our GPS-equipped Komatsu machines without having to separately drive to each machine and install the file with a thumb drive."





▶ VIDEO

Project Surveyor Randall Hendra monitors Tomahawk Construction's Komatsu iMC machines as well as its Topcon-equipped machines from his desk with Smart Construction Remote. "Between tracking machines, uploading files and remotely supporting our operators, Smart Construction Remote paired with Komatsu iMC equipment has greatly increased our efficiency," said Hendra.



Soon, the firm will have about 30 machines capable of utilizing Smart Construction Remote because it works on Topcon systems as well as iMC machines.

"We've tried all brands of GPS-equipped machines, and in our experience, nothing works as well as Komatsu," stated Hendra. "You don't have to fix cables or masts or make little adjustments — you just set the dozer up, and it runs. You're also able to track where your machines are located, which impacts everything from efficiently moving machines between jobs to helping technicians locate machines for routine maintenance."

Operator support

When an operator has a question about a project, Hendra can often use multiple Smart Construction Remote capabilities to resolve the problem quickly.

"Through Smart Construction Remote, on the monitor in my office I'm able to see exactly what an operator sees on the screen in their cab," explained Hendra. "If an operator calls

and explains that he's grading a road and it's not a 2% cross slope, I'm able to see what his screen shows and see exactly where he is located on the job site. I can take that information and compare it to the model, make any changes, then upload a new model to the machine with the proper cross slope without leaving my desk."

Hendra added, "I can also control the screen for any machine. If an operator gets into a different machine than they typically run and wants the screens to look a specific way, I can remotely adjust that for them. I can also update menus and delete old files to make sure our operators are using the most up-to-date version. Between tracking machines, uploading files and remotely supporting our operators, Smart Construction Remote paired with Komatsu iMC equipment has greatly increased our efficiency."

***The opinions expressed here are from the end users who are quoted. ■*



Watch the video

Preventive maintenance clinics ensure your equipment is calibrated to optimum levels for high production



Chris Wasik,
Director,
Life Cycle Solutions,
Komatsu

Many factors impact your equipment's productivity and health, including ambient temperatures, the operating environment, operator habits, regular maintenance, the quality of fluids and filters, and working applications.

Ignoring any of these can accelerate component wear and cause costly, unexpected failures as well as unplanned, extended downtime. Overall performance and operating efficiency can also be affected when pressures and speeds cause longer cycle times. A heavier burden on mechanical systems drives up fuel burn rates too.

A thorough preventive maintenance (PM) clinic provides a detailed inspection of your equipment, including a look inside to measure pump pressure, engine speeds, blowby, idle and cycle times, oil quality, internal component wear, and more.

Minimize downtime

"The United States Department of Energy estimates a good proactive preventive

maintenance program paired with thorough machine recalibration and inspection, such as a PM clinic, can significantly save operations and maintenance costs compared to a reactive approach during a machine's life," said Chris Wasik, Director, Life Cycle Solutions, Komatsu.

When pressures or speeds deteriorate beyond adjustable ranges, planned replacement strategies for key parts or components can bring the machine back to a nearly new level of performance as well as minimize repair costs and downtime, according to Wasik. Measurements taken are compared to Komatsu's recommended operating ranges and can usually be calibrated to optimum levels for better machine performance.

"For a more detailed list of system measurements and checks performed during a standard PM clinic, consult your specific machine's shop manual," Wasik advised. "Check with your Komatsu distributor or dealer for specials and incentives when they conduct a PM clinic on your Komatsu equipment." ■

A preventive maintenance (PM) clinic provides a detailed inspection of your equipment. Measurements are compared to Komatsu's recommended operating ranges and can usually be calibrated to optimum levels for better machine performance.





Now there is an easy, affordable way to bridge the technology gap

Smart Construction Retrofit equips legacy machines with 3D guidance and payload monitoring — tools to drive accuracy and efficiency at your job site.

Learn more about this exciting new solution at komatsu.com/smart-construction-retrofit

Scan to learn more



KOMATSU

SMARTCONSTRUCTION
Retrofit



LeeBoy

TRUST LEEBOY.

You work hard—and for all the right reasons: pride, quality, reputation, prosperity. You expect your equipment to work as hard as you do, to be every bit as tough, productive and reliable as you are. We are LeeBoy. The name behind the world's most dependable and productive commercial asphalt paving equipment.

POWER
EQUIPMENT

www.powerequipco.com

Komatsu's HD1500-8E0 helps increase production at quarry, aggregate and mining operations, keeps operators comfortable

Does your operation need an efficient 150-ton haulage solution that can deliver performance on grade while providing energy-saving technologies to help achieve lower fuel consumption? Komatsu's rigid frame off-highway haul truck, the HD1500-8E0, is purpose-built for mining, quarry and aggregate applications.

Delivering performance with a 1,570-net-horsepower, Tier 4 Final Komatsu engine, the HD1500-8E0 helps drive high levels of productivity. It has a seven-speed, fully automatic transmission with two configurable reverse speeds. Komatsu's advanced transmission with an optimum modulation control system provides electronic shift control with automatic clutch modulation. Optimized clutch engagement at every gear provides smoother shifting without losing torque, which offers a comfortable ride and helps reduce material spillage.

To promote productivity and control the life cycle costs of the truck, an integrated payload meter manages the payload of each hauling cycle by analyzing production volume and the working conditions of the machine.

"When designing the HD1500-8E0, Komatsu's focus was improving performance and durability and helping reduce total cost of ownership," said Sebastian Witkowski, Product Manager, Komatsu. "In addition to best-in-class speed on grade, and downhill brake retarding performance, the truck has a host of new efficiency and operator environment technologies."

The HD1500-8E0 is equipped with hydraulic, wet, multiple-disc brakes on all four wheels that act as a highly responsive retarder, providing operators with confidence at higher speeds when traveling downhill. Operators can also control their downhill descent by setting a desired travel speed with the automatic retard speed control

(ARSC), which applies the brake retarder to maintain the desired setting.

Easy maneuverability

With a tight turning radius of 36 feet, 9 inches, operators in the HD1500-8E0 can maneuver in and out of tight spaces when spotting to be loaded or positioning to dump. Komatsu's Traction Control System (KTCS) provides excellent control in loose or slippery haul road conditions by monitoring the rear wheels for slippage and automatically applying pressure to the independent wheel brake assemblies.

The redesigned cab features a seat heater and ventilator, and the hydropneumatic suspension gives operators the smooth and comfortable ride they need for long shifts. Designed with a convenient layout, the ergonomic cab is equipped with an air-suspension seat to help dampen vibrations, and the low-noise engine, fan clutch and cab sealing provide a quiet, low-decibel operating environment. ■

Komatsu's new HD1500-8E0 mechanical haul truck delivers high performance with less fuel consumption than its predecessor. It is purpose-built to increase production and efficiency in multiple applications.



Sebastian Witkowski,
Product Manager,
Komatsu

Quick Specs

Model
HD1500-8E0

Net Horsepower
1,570 hp

Operating Weight
550,229 lbs.

Rated Payload
153.2 tons

Heaped Capacity
102 cu. yd.





The My Komatsu
Parts Store makes it
easy to get what you
need to keep your
equipment running
at its best.

Don't have a My Komatsu
account? No problem!

Check out as our guest at
mykomatsu.komatsu



KOMATSU
My Komatsu



2022 Komatsu D61PXi-24, S/N B65512, 430 hrs.



2022 Komatsu PC170LC-11, S/N 36188, 920 hrs.

Year/Make/Model	S/N	Equip #	Location	Hours
Dozers				
2021 Komatsu D39EX-24	100029	J00690	Lexington, KY	1,368
2018 Komatsu D39PXi-24	95899	J00702	Paducah, KY	2,739
2018 Komatsu D51PX-24	10402	J00692	Nashville, TN	1,993
2018 Komatsu D51PXi-24	10528	J00701	Louisville, KY	4,454
2017 Komatsu D61PXi-24	B60248	J00696	Evansville, IN	6,198
2022 Komatsu D61PXi-24	B65512	J00695	Knoxville, TN	430
2021 Komatsu D71PX-24	70264	J00697	Knoxville, TN	1,466
Excavators				
2022 Komatsu PC170LC-11	36188	J00705	Knoxville, TN	920
2022 Komatsu PC210LC-11	A13651	J00703	Memphis, TN	268
2019 Komatsu PC490LC-11	A42205	J00698	Knoxville, TN	4,900
2019 Komatsu PC490LCi-11	A45148	J00704	Louisville, KY	4,993
Feller Bunchers				
2016 Komatsu 445L-3	A3124	PT28642-1	Knoxville, TN	4,825
Trucks (Articulated)				
2016 Komatsu HM400-5	10266	J00680	Chattanooga, TN	8,611
Trucks (Rigid Frame)				
2017 Komatsu HD325-8	50027	J00699	Louisville, KY	2,921
2017 Komatsu HD325-8	50028	J00700	Louisville, KY	7,840
Wheel Loaders				
2019 Komatsu WA320-8	A38668	J00706	Kingsport, TN	6,544



Low Hour

Late Model

**Intelligent
Machines**



KOMATSU



TAKEUCHI

Call the Certified Rental Hotline to learn more about our Rental Program.

Our Rental Guide, along with specs on certified machines, is available on our web site.

intelligent / 2.0
MACHINE CONTROL

CERTIFIED RENTAL

(800) 997-7530

www.CertifiedRental.com

POWER
EQUIPMENT

