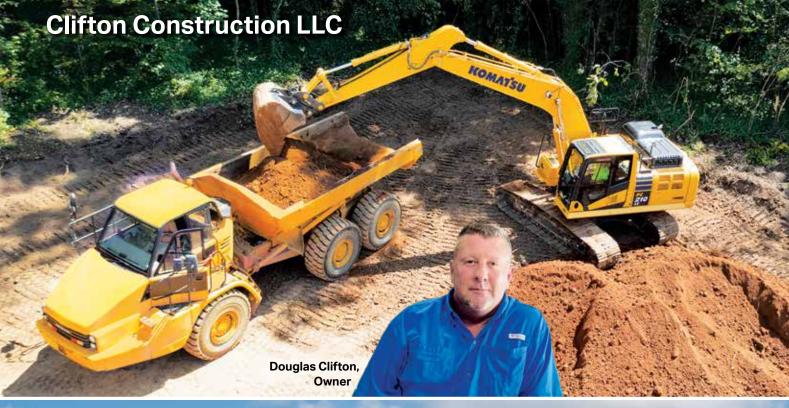


A publication for and about Power Equipment Company's customers • www.PowerEquipmenteer.com • January 2022





A Message from Power Equipment Company



Chris Gaylor

POWER EQUIPMENT

Dear Valued Customer:

We applaud Congress for passing the \$1.2 trillion Infrastructure Investment and Jobs Act. The multiyear bill will provide much-needed funding for fixing aging roads and bridges, expanding public transit and internet access, modernizing the electric grid, and improving water and wastewater systems. It's a historic investment in our nation's infrastructure.

This edition of your Power Equipmenteer magazine features several informative articles designed to help you and your business. For instance, there is a quick how-to on installing and maintaining a breaker, a valuable tool that can increase your versatility.

Because it is essential to assess each of your projects in-depth, we offer several questions about practices, processes and operations that you may want to ask before, during and after a project.

We also highlight some new products, including the Komatsu WA480-8 yard loader arrangement that is designed to be a three-pass match for loading aggregate and other materials into on-highway trucks. It is great for infrastructure, forestry and non-residential applications, too.

If you need a big dozer, the new Komatsu D475A-8 may be the perfect fit with a re-engineered mainframe that targets twice the life of previous models and can withstand multiple rebuild/overhaul cycles.

Plus, now is a good time to consider doing the maintenance and repairs that you may have put off during the busy season. Our skilled service personnel can perform the work in a timely, cost-effective manner to help limit your downtime. Contact us for details.

As always, if there's anything we can do for you, please call one of our branch locations.

Sincerely,

Power Equipment Company

Chris Gaylor, President

Informative articles to help your business



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Residential projects and commercial jobs in the Knoxville area keep Clifton Construction LLC busy year-round



Douglas Clifton, Owner

Growing up around the construction industry gave Douglas Clifton an appreciation for the work involved in running a construction company. He gained a wealth of knowledge by visiting job sites and eventually working alongside his grandfather and father, who taught him all aspects of the business.

"My grandfather owned a construction company and passed it along to my dad when he died," explained Clifton. "In 1988, I left college and purchased the company from my dad, renaming it Clifton Construction. I was able to work alongside my dad for several years before he passed away as well."

From 1988 until 2000, the firm focused on smaller residential excavating projects near its headquarters in Seymour, Tenn. In 2000, Clifton Construction LLC landed a commercial contract for a gas station and has steadily increased its scope of work over the last two decades.

"We were doing a lot of commercial sites and residential projects until the market collapsed in 2008," stated Clifton. "We spent several lean years scraping by and learned how to operate at a highly efficient level. Those challenges helped shape us to be successful as the economy has recovered and projects are readily available again."

Members of Clifton Construction LLC's team gather outside their office in Seymour, Tenn. "We're like a big family here," declared Douglas Clifton, owner. "These guys are really talented. They're hardworking and dedicated."



Today, the firm primarily completes turnkey residential and commercial projects within a 50 to 70 mile radius of Knoxville, Tenn.

"We're a family-run operation with about 15 full-time employees," noted Clifton. "We're at an ideal size that allows us to complete three to four residential jobs and several commercial projects annually. Our team of longtime employees works hard and does the job right the first time. The developers we've built relationships with know the quality and timeliness of work we provide and continue to bring us back to complete jobs for them."

Increasing productivity

Recently, Clifton Construction completed work on an RV park in Pigeon Forge, Tenn. The firm transformed 30 acres of land into 158 lots.

"The project was utility intensive and involved a large amount of fine grading," stated Clifton. "We ran water and sewage to each lot, which are spaced 20 feet apart. Our ability to self-perform every aspect of the job was critical because we didn't have to schedule around another company. We were able to work smart and efficiently."

In Knoxville, the firm is working on a new subdivision called Highland Ridge.

"We're moving 150,000 cubic yards of material to make way for a 160-home residential subdivision," explained Clifton. "We cleared the property and are self-performing every aspect of the job, except for the paving. With projects like this, two of the biggest challenges we face are mud and staying on schedule. Our Komatsu dozers with intelligent Machine Control (iMC) technology help our operators work effectively in all conditions and meet our deadlines."

Clifton Construction purchased its first Komatsu iMC dozer in 2017 — a D51EXi-24. Shortly after, the firm added the larger D61EXi-24 dozer.

"I had an old school mindset and was hesitant about the technology at first," recalled Clifton. "After I got on the machine and saw what it could do, I was sold. Today, we use our GPS dozers once we are ready to cut to grade or are cutting a slope. They take a lot of the guesswork out of operating because everything is laid out for you on the screen, and you don't have to double-check yourself.



An operator uses a Komatsu PC210LC excavator to load material into a haul truck at the Highland Ridge subdivision in Knoxville, Tenn.

"Before going to the Highland Ridge job site, the developer provided a benchmark that we used to create a model of the entire job," continued Clifton. "Once the model was uploaded to the dozer, the iMC technology allowed our operators to stairstep each lot to grade without placing any stakes. The time and cost savings from not placing stakes or needing a surveyor dramatically increased our productivity. The dozers make an inexperienced operator look skilled and make an experienced operator capable of completing work that previously required three people."

Clifton notes that the unique slant-nose design on the dozers also helps with productivity. "Putting the radiator in the rear of the machine allows you to see both blade tips when you're grading, so you can work faster. The rear-radiator design also reduces the number of particles entering the radiator, making it a more durable machine."

Recently, the firm added a Komatsu PC210LCi-11 excavator. Equipped with iMC technology, Clifton Construction operators use the machine to stay on grade when digging trenches for utilities. Its fleet of Komatsu equipment also includes a pair of Komatsu D65 dozers, a WA250 wheel loader, a PC210LC excavator, and a PC238USLC-11 excavator.

"All of our Komatsu machines have been dependable," stated Clifton. "I cannot think of a



An operator cuts a pad to grade using a Komatsu D51EXi-24 iMC dozer.

major component that we've lost on any of our machines. They're well-built and have great longevity."

Relationship with Power Equipment

Since adding its first Komatsu machine, Clifton Construction has worked closely with Power Equipment Company and sales representative Joey Baker for its equipment, service and support needs.



Discover more at PowerEquipmenteer.com

Continued . . .

'We're always looking for ways to be more productive'

... continued

"We're always looking for ways to be more productive with our GPS equipment," said Clifton. "Joey and the team at Power Equipment have been great about answering our questions and working with our operators. If they can't answer a question over the phone, they'll send somebody out to the job site. We really appreciate that level of commitment."

When it comes to machine maintenance, Clifton also appreciates Komatsu Care, a complimentary routine maintenance program for the first three years or 2,000 hours of a machine.

"We're always busy, and performing maintenance can slow you down and hold up production," noted Clifton. "With the Komatsu Care program, Power Equipment's service techs schedule routine maintenance around our schedule to limit downtime. Beyond regular maintenance, we have a great relationship with their entire parts and service departments. I know that if I have a question or need something, they'll take care of it."

Next generation

Clifton shares his company's success with his wife, Lori. "In early 2000, my wife and I decided it was time to step up the game," he explained. "As I began to transition to commercial grading projects and larger residential jobs, she launched ELC & Company Inc. — a DBE (Disadvantaged Business Enterprise) trucking firm that has grown into a medium-sized material supplier for several large, prime TDOT (Tennessee Department of Transportation) contractors in East Tennessee. My son, Layne, currently dispatches their trucks and oversees the traffic control division. With my wife's help, and my office manager, Judy Atkins, we have grown to our current position.

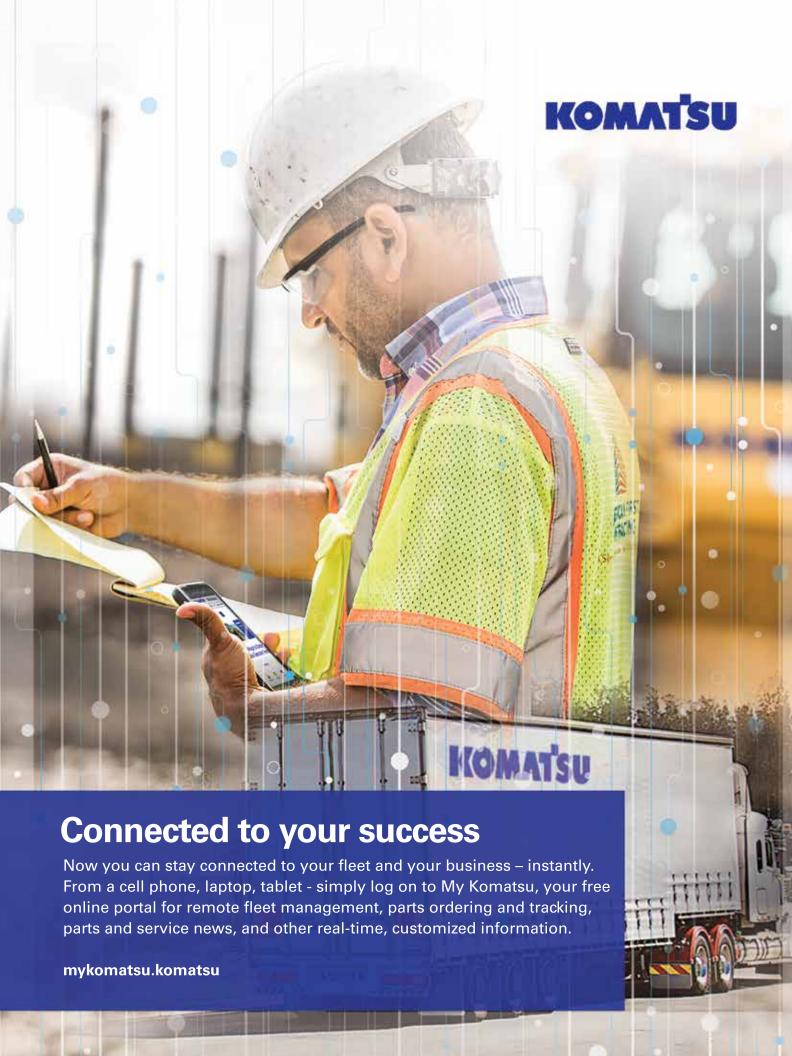
"I don't know if I'll ever retire, but I'll start easing back in the next 10 years," Clifton added.
"Ideally, as I take a step back, Layne will start to fill in those roles and eventually take over the company. I had the opportunity to work with my father and appreciated it, so I'm glad I get to do the same with my son."



Clifton Construction owner Douglas Clifton (left) works closely with Power Equipment Company and sales representative Joey Baker for Clifton Construction's equipment, service and support needs. "Joey and the team at Power Equipment have been great about answering our questions and working with our operators," said Clifton. "If they can't answer a question over the phone, they'll send somebody out to the job site. We really appreciate that level of commitment."

Operators cut pads to grade at the Highland Ridge subdivision using a Komatsu D61EXi-24 iMC dozer and a Komatsu D51EXi-24 iMC dozer. "I had an old school mindset and was hesitant about the technology at first," said Douglas Clifton, owner. "After I got on the machine and saw what it could do, I was sold. They take a lot of the guesswork out of operating because everything is laid out for you on the screen, and you don't have to double-check yourself."





Eastern Arkansas farmers rely on Creasey Construction LLC for farmland remediation services year-round



Mike Creasey, Owner

Mike Creasey knows the eastern Arkansas farmland better than the back of his hand. His company, Creasey Construction LLC, remediates farmland for over 200 farmers within a 50-mile radius of McCrory, Ark. Before building his own company, Creasey learned everything he could from his father.

"In the summer of '75, my dad operated equipment for the company that built the dam across the Colorado River in Santa Fe, New Mexico," recalled Creasey. "We came back to Arkansas so I could start school, and a local landowner called my dad to rescue a track machine stuck in a swamp. My father walked across the swamp, dug out the machine by himself and walked it back to solid ground. He realized there was a need for somebody in the area with his operating skills, but didn't have the ability to purchase a machine by himself. So, one of the guys in the masonic lodge co-signed for him, and he bought a machine.

"Eventually, he bought his own truck and a lowboy, and the business took off from there,"

Owner Mike Creasey digs an inside re-lift ditch with a pump-off station for an Arkansas farmer using a Komatsu PC210LC-11 excavator. "We've tried operating other brands of equipment, but nothing compares to Komatsu," said Creasey. "No matter the weather conditions, I don't feel like there is anything I can't do with these machines. Over the lifetime of the machines, our Komatsu equipment outlasts competitive brands 3-to-1."



continued Creasey. "He went from living in a home with a \$35-a-month payment to establishing his own company. I would tag along to jobs when I could and soaked up everything he taught me. I had a good eye, good skillset and the best teacher."

In 1996, Mike Creasey bought out his father and took over the company. Creasey Construction has fluctuated in size over time, and today consists of two employees: Creasey and his cousin.

"We focus on providing custom digging for local farmers," noted Creasey. "That includes levy work, tree line work and ditch work. I've tried working indoors, but I'm not a factory guy. I enjoy being outdoors, operating equipment and dealing with good, honest people."

Custom farmland jobs

Demand for Creasey's services keeps his calendar booked for the next year. Recently, he completed a job for a farmer he's worked with for about 20 years.

"We dug an inside re-lift ditch with a pump-off station for a farmer that lost 70 acres of crop on a 90-acre field," explained Creasey. "Water will run through drop pipes we installed along the length of the ditch to feed the pump. When there's a storm that drops 4 or 5 inches of rain, the system can dry the field within 24 hours. The system will save the crop and pay for itself within a couple of years."

To stay on schedule, machine uptime is key. Creasey relies on two Komatsu PC210LC-11 excavators and a Komatsu D39PX-24 dozer to complete its projects.

"We don't have to worry about downtime with our Komatsu machines," stated Creasey. "We've had zero major breakdowns since purchasing our first piece of Komatsu in 1992. They've been nothing but solid pieces of equipment for us. We've tried operating other brands of equipment, but nothing compares to Komatsu. No matter the weather conditions, I don't feel like there is anything I can't do with these machines. Over the lifetime of the machines, our Komatsu equipment outlasts competitive brands 3-to-1."

For Creasey, operator comfort and machine smoothness stand out on the PC210LC-11



At an Arkansas farm that lost 70 acres of crop, owner Mike Creasey digs an inside re-lift ditch with a pump-off station using a Komatsu PC210LC-11 excavator. "If I'm digging a still water pit and booming up 12 feet with a full load of dirt, the machine doesn't stall out," said Creasey. "I'm able to smoothly transition the digging motion and do it with speed. At the end of a 10-hour day, I'm able to get off the machine without feeling like I've been tossed around."

excavator. "I primarily run the excavator in economy mode," said Creasey. "If I'm digging a still water pit and booming up 12 feet with a full load of dirt, the machine doesn't stall out. I'm able to smoothly transition the digging motion and do it with speed. At the end of a 10-hour day, I'm able to get off the machine without feeling like I've been tossed around."

Creasey uses the D39PX-24 dozer for multiple applications. "I'm able to dress up side slopes or throw down timber without having to track the excavator back and forth. We do a lot of 2-to-1 slopes, and the slant-nose design allows me to see where the blade is the whole time. The dozer works hand in hand with our excavators."

Fuel usage on the machines is another standout feature, according to Creasey. "The fuel economy on the PC210 is unmatched," he stated. "I work the machine pretty hard and can keep it under 4 gallons per hour. Same goes for

the dozer; we're able to run at about 3 gallons an hour. You just don't find that with other brands."

Power Equipment transition smooth

During the fall of 2021, Power Equipment Company took over the territory that serviced Creasey Construction. For Creasey, the transition was seamless.

"I didn't notice anything about the transition," said Creasey. "Service continued on as normal. That gives me confidence going forward that I can rely on Power Equipment."

While the name of the company servicing Creasey Construction changed, many of the faces did not. Power Equipment sales representative Corey Southerland has worked with Creasey for multiple years and continues to help him maintain his equipment and find the right machines for his projects.

"I can count on Corey to answer his phone when I have a question," said Creasey. "If I need a tooth

Continued . . .

'We've got a good relationship'

... continued

or something small, I can count on Corey and the shop to bring it to me. We've got a good relationship with the whole shop at Power."

Creasey appreciates the Komatsu Care coverage he receives from Komatsu and Power Equipment. The complimentary service provides three years or 2,000 hours of routine maintenance for Tier 4 Final machines.

"The Komatsu Care program makes servicing my machines easy," stated Creasey. "A technician contacts me when it's time to schedule maintenance and works around my schedule. When they come to do the service, they're quick and clean up after themselves."

No change

Looking ahead, Creasey plans to continue along the same path. The growth in unprecedented weather events and increasingly unstable weather patterns means farmers will rely on his services going forward.

"Dad got into the business at the right time, and I've been blessed to continue in his footsteps," said Creasey. "I plan to continue doing this for another four to five years before considering retirement. My cousin has plans of taking over the business once I'm done. I hope he's capable of that, because I don't see the business slowing down any."

Power Equipment sales representative Corey Southerland (left) and Power Equipment Vice President & Regional Sales Manager Darryl Thompson (right) meet with Creasey Construction owner Mike Creasey (center) for the first time as Power Equipment representatives. "I didn't notice anything about the transition (from my former Komatsu dealer to Power Equipment)," said Creasey. "Service continued on as normal. That gives me confidence going forward that I can rely on Power Equipment."





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Knoxville and Kingsport branches celebrate 75 years of working with East Tennessee customers

For the last 75 years, Power Equipment Company's Knoxville, Tenn., and Kingsport, Tenn., branches have worked closely with customers across East Tennessee to help build and grow their businesses. Separated by 99 miles of highway, the two branches provide high-quality service, maintenance, and sales and rental expertise to the region. Recently, Power Equipment was named an authorized Komatsu distributor for eight counties in Southwest Virginia, which will be serviced by the Kingsport branch.

"We cover a large territory and are one of the main equipment suppliers for our area," noted Marty Mullins, a field technician for the Kingsport branch. "We offer a broader range of equipment than most dealers, which our customers appreciate. I've been here over 25 years and seen a lot of changes, from technology on the machines to the customers' needs. One thing that hasn't changed is our commitment to the customer. That's always been a priority of our branch and Power Equipment."

At Power Equipment's headquarters in Knoxville, Service Manager Josh Howiler

echoes Mullins' sentiment of prioritizing the customer.

"There's a great sense of friendship between everyone at the branch and that extends to our relationships with the customers," stated Howiler. "We strive to build connections and create trust between the sales team, the parts department, the service department and the customer. This is probably the friendliest bunch I've ever worked with."

Many employees at Power Equipment's Knoxville and Kingsport branches have been with the company for multiple decades. None have been there longer than part-time employee and self-anointed gofer A.J. Cox, who joined Power Equipment in 1955.

"I've done a little bit of everything, from mopping the floors to running the service department," said Cox. "Power Equipment has always been good to me, and I've enjoyed the people I've had the opportunity to work with. The future for Power Equipment looks bright as long as they continue to take care of the customer and do what they've done for years."



A.J. Cox, Gofer, Knoxville



Josh Howiler, Service Manager, Knoxville



Marty Mullins, Field Technician, Kingsport



Discover more at PowerEquipmenteer.com



Power Equipment Company's headquarters in Knoxville, Tenn., and its Kingsport, Tenn., branch service East Tennessee. Now, Kingsport also services eight counties in Southwest Virginia.



Matt McQueen promoted to vice president of Power Equipment



Matt McQueen, Vice President, Power Equipment Company

Power Equipment Company promoted East Tennessee Regional Sales Manager Matt McQueen to vice president, effective Jan. 1, 2022.

"Matt has truly been a difference maker in the East Tennessee market," said Andy Moon, vice president of sales. "His commitment to our customers and our manufacturers can be seen by the growth in this area. I look forward to his continued success with Power Equipment."

President Chris Gaylor agreed, "Matt has been a part of the Power Equipment team for a long time and has grown up with the company. He truly deserves this promotion, and I look forward to his continued dedication to our organization."

McQueen is appreciative of the support he received from his fellow colleagues and

commented, "This next step in my career allows me to expand on my leadership skills and continue to work with some of the brightest and most talented people in our industry. I am so grateful to have had the chance to grow and learn within this company for the past 12 years, and I welcome the challenges ahead."

Matt is an active member of the Tennessee Road Builders Association (TRBA), the East Tennessee National Utility and Contractors Association (NUCA), and the Tennessee Nursery and Landscape Association (TNLA). He currently resides in Dandridge, Tenn., with his wife, Amanda, and two young sons, Mason and Hudson. When he is not working, Matt enjoys spending time with his family, the thrill of a great hunting experience, and working on his farm. ■

Mark Strader promoted to vice president of Bramco-MPS



Mark Strader, Vice President, Bramco-MPS

Bramco-Material Processing Solutions (MPS), a member of the Bramco family of companies, promoted General Manager Mark Strader to vice president, effective Jan. 1, 2022. Bramco-MPS provides crushing, screening and processing equipment as well as replacement parts and service. The company represents such brands as KLEEMANN and Terex MPS.

"Mark joined Bramco-MPS five years ago and brought with him over 20 years of experience in the material processing, crushing and screening industry," said Michael Brennan, president and chief operating officer of Bramco. "Here at Bramco-MPS, he has overseen growth within this vital segment of our business and has created a culture of collaboration and teamwork with the employees. I am pleased to work with him and look forward to continued success in our material processing business."

Mark is grateful for the opportunity to grow with the company and commented, "Our business, like so many, has seen great change during these last few years. I have always felt that in addition to reputable and solid business partners, you need to rely on your people to grow. We have a great group here at Bramco-MPS, and I feel fortunate to work with them and expand my leadership reach."

Mark has been the general manager for Bramco-MPS since 2019 after joining the company in 2016 as its sales manager. He is currently on the Associate Committee for Kentucky Crushed Stone Association and is a member of the Professional Development Committee for Indiana Mineral Aggregates Association. Mark, a Somerset, Ky., native, has a degree from Campbellsville University and currently resides in Louisville, Ky., with his wife, Jessica, and their children, Kelsey, John, Mark and Noah. ■

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Starting a new project? Ask these questions first

All construction projects have unique considerations, but there are several common questions you can ask yourself that will help you plan, execute and learn with each one. Here are five important questions to think about when working on a new project.

Do I have all the data I need to put together an estimate and bid the job?

Having a set of plans doesn't always tell the whole story. To set yourself up for success, it's critical to have a thorough understanding of what the job site looks like before you ever think about submitting a final bid. Site owners, developers and general contractors will often have a walk-through prior to the bid date. Attend the walk-through meeting so you can see the actual conditions and elevations and determine if there are items on-site that are not on the blueprints or documents. Those will need to be addressed and considered as part of your bid.

A site visit gives you a chance to ask questions as well. If there is something at the site that is not listed on the plans — such as a small pile of concrete — you can determine who is responsible for its removal or if it should somehow be incorporated into the sitework. There will be a cost, whether you are hauling it off-site or repurposing it, but the difference in your final estimate could be significant.

Asking questions to ensure you have enough information to estimate and bid a project is critical, and so is learning from your practices and people.



Are the machines I have really the best ones for this job?

Think about this question before you put the blade or bucket into the ground. Using the proper machinery for a job is important. It doesn't make sense to bring a tight tail swing excavator to a wide-open job site where mass amounts of material need to be moved quickly. Conversely, a standard excavator is not practical for confined spaces, such as digging against a building or in a lane of traffic.

Improperly equipping the project leads to frustration, lack of productivity and probably decreased profits. If you don't have what's needed for a particular aspect, consider renting. This allows you to get the job done without a long-term commitment to machinery you only need for a short amount of time.

Am I leveraging and maximizing technology?

From initial GPS grading systems to software that replaces traditional pen-and-paper estimating, construction technology has grown considerably. That technology is allowing companies to track every phase of a project digitally and share that information with all relevant parties — owners, contractors, etc. Job site management software and apps are abundant and save time and paper costs.

In addition to using the information to adjust practices on current jobs, it can be used for more competitive and accurate bidding and project management on future projects. You can also use data from the machines themselves. Nearly all new Komatsu machines have telematics that deliver production-related information, such as hours moving earth versus idle time, modes used and more. This data can be used to track job site practices and ensure operators are using the machines and matching them to the materials and applications necessary to help maximize efficiency and productivity.

Telematics let project and fleet managers see the information remotely in near real time, so they can make faster decisions if changes are needed. There are also applications available through desktop and laptop computers, as well as by smartphones and tablets, that let you make plan changes and see what operators see remotely, saving you time and the expense of driving to the job site.



There are various ways to determine if you are on schedule and profitable. In addition to traditional site visits, you can use technology from telematics and remote applications to track progress in near real time from almost anywhere.

Today's machines are more technologically advanced, too. Remember those early days of GPS grading when you needed bolt-on components that got damaged and had to be taken down and put up every day? They are still around, but might not be for long. New equipment now has that technology built in.

What am I learning from the project?

There is an adage, "If you are not growing, you're dying." In business, that does not have to mean adding employees or equipment, or taking on larger jobs. Growth can come from learning more productive and efficient ways to complete jobs.

With technology, you don't have to physically be on the job site to track production or rely on timecards and anecdotal information to see if your schedule and budget line up. Learning to use technology and apply data to job site practices more quickly is a great way to "grow."

What do I do with my profits?

There are many ways to use the money you make from projects. Some suggestions include using the profits to grow your business, paying down or refinancing debt, investing in your staff, or saving for a rainy day. It's always a great idea to talk to your financial adviser to determine what's best for you and your business.

"... you don't have to make all-or-nothing decisions about what to do with your cash once your company reaches the black," according to the article "5 Things to Do With Your Small Business Profits." "You may choose to leave some cash in the company to increase its value, pay a dividend or give your employees raises. You could buy a new piece of equipment and increase your own salary. It's up to you and your goals for running your business. Being in the black just means you have a lot more choices and opportunities."

Editor's Note: This information is excerpted from a longer article. To see it in full, scan the QR code or visit https://www.komatsu.com/en/blog/2021/starting-anew-project-ask-these-questions-first/



Are you prepared for low temperatures? Here's how to winterize your excavators

No matter where you operate, cold weather could potentially affect your job sites. Preparation ensures your excavators are protected, so they can continue to give you good production or are properly stored against the elements.

Fluids are the lifeblood. As temperatures drop, switching to a winter-blended diesel fuel helps protect your engine and its components. Traditional diesel tends to gel and develop condensation in colder temperatures and can freeze if there is too much water in it. High water content can also cause filters to freeze, expand and burst. Also, be sure to drain off fuel tank water and sediment.

Newer machines that use diesel exhaust fluid (DEF) need special attention, whether you're using them or storing them long term because DEF freezes below 32 degrees Fahrenheit. Before shutting down for the day — or for months — it's essential the automatic DEF line is purged to ensure that the lines are empty. This

helps prevent expansion that could damage system components.

All fluid levels should be checked consistently to ensure they are at proper levels. It's recommended that you use a low-viscosity oil and coolant with a freeze level protection rating that won't freeze and cause major damage to the engine or other systems.

A block heater may be another consideration during overnight parking.

Keep batteries charged. Cold weather stresses batteries, and they should be inspected for damage prior to winter usage and replaced, if necessary. If you plan to use your excavator, make sure the battery is fully charged. If it's not sealed, check that the water and acid levels are properly filled.

If you're parking the excavator long term, be sure to check the water/acid levels. Maintenance-free batteries should be fine. It's very important that the battery

Preparation plays an important role in your excavator's production during the cold winter months. Always use the proper fluids, keep the battery charged and the tracks clean, and ensure cab features that control operator comfort are working.





Inspecting your machine before operating should be done in all weather conditions. In especially cold weather, pay close attention to hoses and belts, fluids, the battery, and the tracks.

disconnect switch is turned off when storing the machine for a long period of time. Consider removing the battery and putting it in a temperature-controlled climate to prolong its overall life.

Visual inspections are important before

startup. Before operating, make sure to do a thorough visual inspection of the machine to check for any irregularities, and address them before starting the machine to prevent potential damage. Let the machine warm up to proper operating temperature and cycle through functions to allow fluids to move before digging or other applications.

Keep track of the undercarriage. Pay special attention to your excavator's undercarriage during cold conditions. Brush off any snow that may have accumulated overnight or during breaks before entering the machine to reduce the chance of slipping. It's especially vital to keep tracks cleaned, as frozen mud and debris causes problems with the undercarriage and the seals and housings of the final drives. It

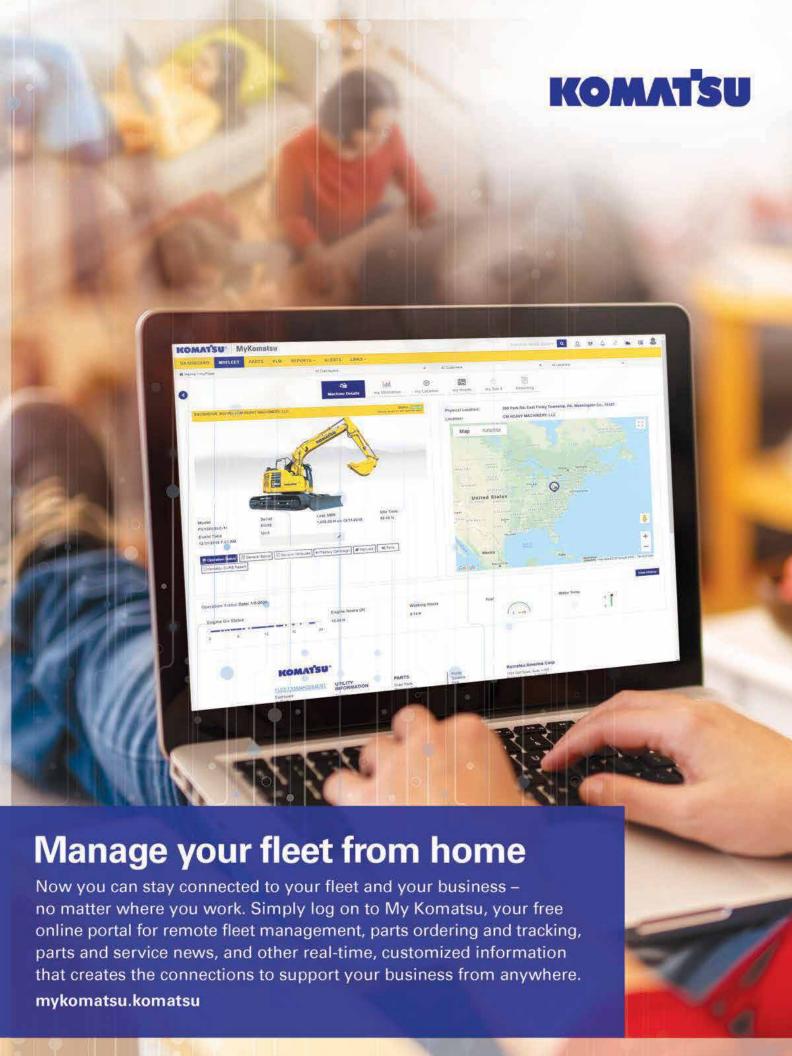
prevents the rollers from turning during travel, which causes flat spots on the carrier and bottom rollers.

Extremely cold temperatures can cause tracks to freeze to the ground. To prevent this, if possible, park your excavator on timbers, small pieces of wood in forest areas, or another barrier when not operating.

Don't overlook the cab. Cabs are often an afterthought when it comes to cold temperatures, but they shouldn't be. To keep operators comfortable, ensure that the heater is in proper working order, as well as the heated seat if the excavator is equipped with one.

When storing the machine, give the cab a thorough cleaning and remove any debris, especially food-related items. Inspect it to make sure there are no holes or missing filters and that the doors seal properly. Doing so helps keep pests such as rodents from nesting and potentially destroying the operator's cab.

To discover more helpful information, visit www.komatsu.com



Want a versatile loader with the capacity to load highway trucks quickly?

Loading and moving materials in as few passes and cycles as possible not only helps increase productivity, but it also reduces costly wear and tear on machines. One versatile machine that offers that across multiple applications provides a distinct advantage.

"The WA480-8 yard loader arrangement is designed to be a 3-pass match for loading aggregate and other processed materials into highway trucks," said Adam Braun, Komatsu product marketing manager. "It is also adaptable for use in infrastructure, forestry and non-residential construction applications."

A host of new features contribute to its high production in truck loading, carrying, stockpiling and hopper charging applications. Among them is a Komatsu designed, 7.2-cubic-yard bucket with curved side edges built to minimize spillage. Its internal space and shape provide smooth material flow, and the long bucket jaw and decreased strike plane angle results in easy fill and low resistance during pile penetration. Operators can easily see how much material is in the bucket with the integrated load meter system in the cab.

More than 1,400 pounds of added counterweight compared to a standard WA480-8 gives the yard loader arrangement the ability to handle increased bucket capacity and improves stability. Low-profile tires with increased ground contact and new heavy-duty front and rear axles provide additional stability. The front and rear frame have been redesigned on the yard loader arrangement with an increased diameter for a larger center hinge pin that connects the two.

Added productivity features include excellent visibility to the pile and surroundings, an easy-to-operate Advanced Joystick Steering System (AJSS), and a comfortable air-suspension seat. Outside the cab, there are front frame steps, a folding left-hand mirror, tie off points and a front cab grab rail.

Maximized brake life

Another highlight of the WA480-8 yard loader arrangement is the new highly efficient air-cooled braking system designed to

maximize brake life in extended load-and-carry or high-speed applications. The dedicated system enhances higher cooling efficiency even in tough environments. In severe test conditions, the cooling system demonstrated a 56 to 58 degree Fahrenheit better cooling effect.

"Stable cooling performance under high duty cycle operation reduces the risk of hydraulic oil overheating," said Braun. "The electric drive pump has a sensor that senses the axle temperature and activates only when needed."



Adam Braun, Product Marketing Manager, Komatsu



To learn more about the new WA480-8 yard loader arrangement, visit https://www.komatsu.com/en/products/wheel-loaders/large-wheel-loaders/wa480-8/



New Komatsu D475A-8 mining dozer features re-engineered mainframe, delivers higher levels of production



Joseph Sollitt, Senior Product Manager, Komatsu

For more information about the new D475A-8, visit https://www. komatsu.com/en/ products/dozers/ surface-mining-dozers/ d475a-8/



On mining sites, support machines like dozers can directly impact productivity by keeping blasting, loading and dumping areas clean, enabling loading and hauling equipment to work more efficiently. If your operation needs a versatile mining dozer that can go from ripping solid rock to cleaning up around a dragline, the new Komatsu D475A-8 may be the right fit for you.

Using extensive customer feedback, Komatsu re-engineered the D475A-8 mainframe to target twice the life of previous models — now 60,000-plus hours — and withstand multiple rebuild/overhaul cycles. Its low center of gravity provides machine stability, and long and consistent track on ground length offers more traction, pushing power, ripping efficiency and less shoe slippage. Track shoe slip control automatically controls engine speed and minimizes slip during ripping.

Added horsepower (890 net hp forward, 968 net hp reverse at 2,000 rpm) can help provide faster ground speeds, shorter cycle times and more production per hour. The D475A-8's high horsepower in reverse means the lock-up converter stays engaged more frequently, allowing significantly higher levels of production, especially when pushing down slopes.

"Automatic gearshift mode allows the powertrain to automatically engage the torque converter

lockup clutch," said Komatu's Joseph Sollitt, senior product manager. "Locking up the torque converter reduces parasitic losses within the converter and transmits engine power directly to the transmission, increasing ground speed. That achieves efficiencies comparable to a direct drive and decreases fuel consumption up to 10% compared to manual gearshift operation."

Blade increases efficiency

Operators can boost efficiency by utilizing blade auto-pitch mode, which is designed to increase dozing efficiency while reducing the amount of operator input required. The all-new blade support structure is designed to significantly reduce blade side sway. The dozer also has enhanced visibility to the blade.

Improvements to the cab make the D475A-8 more comfortable to operate throughout long shifts. Ergonomically placed touch points and palm control joysticks make operation easier. Additional comfort features include improved visibility to the ripper shank, a rearview monitoring system and a heated, ventilated air-suspension seat. The redesigned undercarriage reduces shock and vibrations when the dozer travels over rough terrain.

"It is engineered to minimize downtime," Sollitt noted. "Maintenance is efficient with centralized grease points, a ground-level fluid service center, and battery and starter isolators with lockout/tagout functionality."





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Quick surface creation lets you perform simple operations with your iMC 2.0 dozer without digital plans



Ron Schwieters, Senior Product Manager, iMC and Hardware, Komatsu

Moving dirt with little or no staking and surveying has become much easier with integrated GPS grade control. Simply upload 3D data, perform a short calibration, and you're ready to strip, push, place and grade materials.

However, what if you have a task that's not in the plans? Perhaps you want to create a level surface for a job site trailer, or it's about to rain and you want to make sure water drains to a certain area.

"Even without plans, you can easily get simple jobs done in short order with the quick surface creation feature on new iMC (intelligent Machine Control) 2.0 dozers," said Ron Schwieters, Komatsu senior product manager, iMC & hardware. "It lets operators easily create a temporary design surface."

Quick surface creation on Komatsu intelligent Machine Control (iMC) 2.0 dozers lets you create a surface in a few easy steps without plans. "This is a great tool for times when there is no 3D data available," said Ron Schwieters, senior product manager, iMC & hardware for Komatsu. "You can use it for a wide variety of tasks, including stripping topsoil and haul road cleanup. It's another way to utilize and maximize your investment to the fullest."

To use quick surface creation:

- Lower the blade to the ground or target elevation.
- Press the "quick surface creation" button on the monitor. Values are entered automatically based on your current blade position.
- Adjust values, if desired. When you are ready, press "OK" to set the temporary design surface. The "quick surface adjustment" button will display.
- Move material.

Easy adjustments

You can adjust the temporary design surface parameters by pressing the "quick surface adjustment" button. Touch the desired parameters to be modified and adjust accordingly.

"This is a great tool for times when there is no 3D data available," said Schwieters. "You can use it for a wide variety of tasks, including stripping topsoil and haul road cleanup. It's another way to utilize and maximize your iMC investment to the fullest."



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Expert advice on how to make sure your breaker performs its best

A breaker can be one of the most valuable tools in a construction or quarry company's equipment fleet because it allows you to break up hard materials for excavation, perform demolition of buildings and roads, and break large rocks into manageable sizes for a crusher to handle.

If you are purchasing a new excavator and you think that you will use it with a breaker, consider having the machine set up at the factory with the necessary plumbing to run the attachment. If you are adding a breaker later, have a distributor/dealer technician perform the work because they have the skills to properly set the flows and pressures, and ensure lines are the right size to handle them.

Grease is the lifeblood

Operators or service personnel should be vigilant about grease. Using the proper amount of high-quality grease and putting it on correctly reduces friction wear on the tool and the bushings. Breaker tools become extremely hot, so the grease you use should be rated to work at temperatures of at least 500 degrees Fahrenheit. Use a good grease with, at minimum, a No. 2 lithium base containing 3% molybdenum. Molybdenum is crucial because it helps the grease stick to the tool and not run off.

An automatic lubrication system set to automatically grease during operation can help ensure the breaker remains greased. When purging the lube system a hand grease pump is best. Pump grease into the grease line until a steady stream of grease appears inside the hammer's upper and lower bushing lube holes. Remove the handpump and reattach the grease hose to the breaker lube line.

Inspect consistently, replace worn components immediately

Inspections are an essential part of keeping your breaker in proper working order. A daily walkaround performed before operation, and periodically throughout the day, should be part of an operator's routine as they check for leaks, cracks or loose hardware. A more comprehensive inspection should be done at least every 40 hours of operation and sometimes at shorter intervals, depending on the material you are working with. It's also recommended that you take the breaker in annually for a rebuild to have wear components replaced and the unit resealed.













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Are you putting off repairs?

A well-maintained machine runs cleaner and more efficiently, with reduced downtime. To help keep your machines up and running, did you know that Komatsu Financial offers financing for parts and service repairs on eligible machines through your distributor when the work is performed by Komatsu-approved technicians? With finance terms up to 30 months, you can pay for the parts and labor later.

Financing is available up to \$300,000 for parts and labor. Rates are as low as 0.99% depending on the amount financed, and four

payment skips every 12 months are available. Terms and conditions apply. Subject to credit approval. Current rates are good through March 2022. Contact Power Equipment Company for complete details.

Insider Tip: Contact Power Equipment finance team for additional details. ■



To learn more about parts financing, visit https://www.komatsu.com/en/services-and-support/financing/



Make plan changes remotely from anywhere

Why drive to a job site to transfer 3D data? With Smart Construction Remote you can send updates directly to a target machine from anywhere; easily search all connected assets or log in to a machine.

Designed for your job site

Smart Construction Remote software is compatible with Komatsu intelligent Machine Control (iMC) models and with select aftermarket grade control systems.

Multiple machine transfer

Transfer design files to multiple machines on-site with one click.

Operator support

Assist your operators remotely by viewing what they see in real time.

Insider Tip: "By connecting your machines and office with Smart Construction Remote, you can ensure that your operators always have the right files and support they need to get your jobs done faster with less rework," said Bryce Satterly, Smart Construction solutions manager. ■



Learn more about Smart Construction Remote

by contacting Power

Equipment or visit: https://

www.komatsu.com/en/



Design feature makes a difference in production

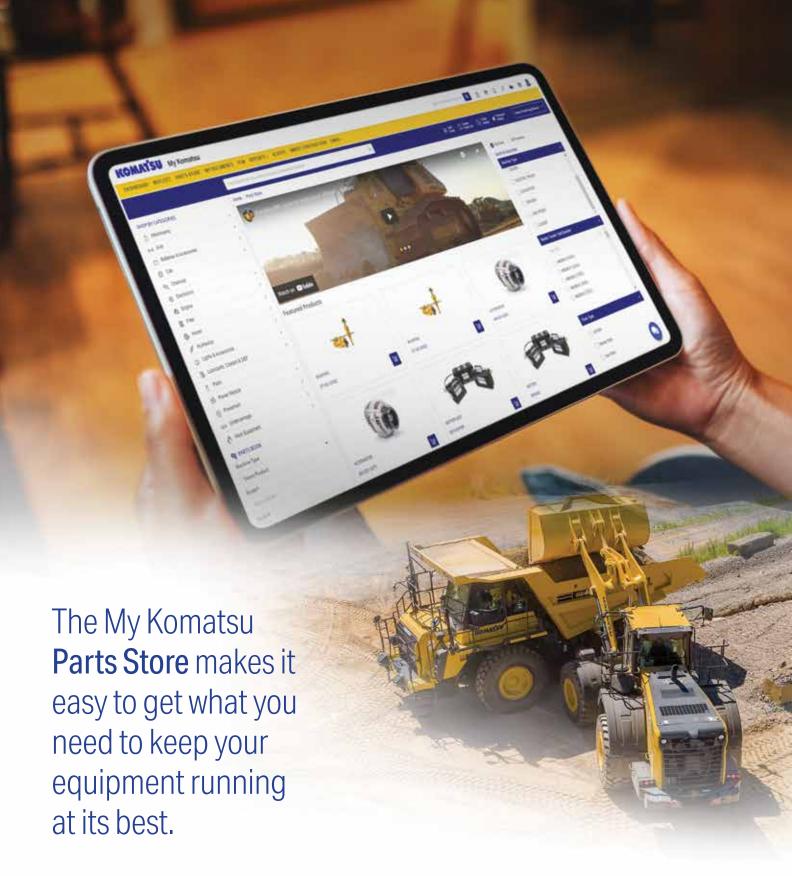
While you probably know that intelligent Machine Control (iMC) dozers, such as the D71i-24, can make operators more efficient, did you know that a simple design feature makes all of the D71-24 models more productive?

Komatsu specifically matched the blade width to the track gauge to ensure material is always cast outside the edges of the tracks for an optimal surface finish. Additionally, new performance features include greater steering power for improved maneuverability and productivity. Insider Tip: "The D71-24 lets you cover multiple applications with one machine — from stripping, to pushing large loads, to finish grading — cutting your need for multiple pieces and saving you time and costs," said Andrew Earing, product marketing manager. ■



Scan the QR code to learn more about how to lower your costs and increase productivity with a D71-24 dozer.





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2019 Komatsu D155AX-8, S/N 100308, 1,525 hrs.

Year/Make/Model	S/N	Equip#	Location	Hours
Compaction				
2015 HAMM H11iX	H2100496	J00633	Louisville, KY	1,784
Dozers				
2016 Komatsu D39EX-24	95277	J00638	Kingsport, TN	3,756
2017 Komatsu D39PX-24	95170	J00643	Paducah, KY	1,392
2016 Komatsu D39PXi-24	95052	J00641	Louisville, KY	3,814
2020 Komatsu D61PX-24	41167	J00634	Stanville, KY	587
2019 Komatsu D155AX-8	100308	J00637	Stanville, KY	1,525
2019 Komatsu D155AX-8	100320	J00582	Louisville, KY	2,758
Excavators				
2019 Komatsu PC138USLC-11	55471	J00642	Knoxville, TN	1,885
2020 Komatsu PC138USLC-11	56497	J00640	Paducah, KY	1,117
2019 Komatsu PC210LC-11	A12816	J00624	Nashville, TN	4,857
2017 Komatsu PC210LCi-10	452694	J00563	Chattanooga, TN	2,243
2018 Komatsu PC238USLC-11	5188	J00644	Little Rock, AR	1,762
2018 Komatsu PC238USLC-11	5327	J00646	Little Rock, AR	2,739
2018 Komatsu PC238USLC-11	5501	J00645	Little Rock, AR	2,128
2017 Komatsu PC360LC-11	A35922	J00636	Springdale, AR	2,735
2019 Komatsu PC360LC-11	A36846	J00618	Little Rock, AR	971
2016 Komatsu PC390LC-11	A30453	J00601	Memphis, TN	6,760
2019 Komatsu PC360LC-11	A36769	J00599	Louisville, KY	2,391
2017 Komatsu PC490LC-11	A41585	J00650	Little Rock, AR	3,200
Wheel Loaders				
2018 Komatsu WA270-8	A28311	J00647	Memphis, TN	2,747
2016 Komatsu WA380-8	A74244	J00639	Springdale, AR	5,160
Misc.				
2017 Komatsu HD605	30009	PT29551-1	Nashville, TN	10,000
2014 Flexiroc D60	AVO14A1130	PT334449	Nashville, TN	9,464

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