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The future of excavation is here. Introducing the new PC220LC-12 and PC220LCi-12, raising the bar on operator comfort, performance and smart technology.



Dan Healy

**Many solutions
available**



Dear Valued Customer:

Equipment showcases are a great way to gain firsthand experience with new machines and learn from experts. You won't want to miss North America's largest trade show, CONEXPO-CON/AGG, which will take place March 3-7, 2026, in Las Vegas. It will arrive sooner than you think, but for now, you can check out a preview of the event in this issue. Be sure to visit Komatsu's booth at the show to see its latest solutions.

On that note, I am excited to inform you that Komatsu just released its next-generation PC220LC-12 and PC220LCi-12 excavators, which deliver the most comfortable and advanced excavator work environment Komatsu has ever created. By empowering operators with enhanced comfort, cutting-edge technology and customizable features, these new excavators represent the next step forward for contractors seeking to maximize productivity and reduce total cost of ownership.

Komatsu currently has many Smart Construction solutions available as well, so take a look at the article that offers recommendations for determining which one makes the most sense for your operation. It can help you figure out what solutions you need and when is the right time to add them.

Plus, the new Komatsu Supercoolant, which utilizes advanced POAT (phosphated organic acid technology) with corrosion inhibitors, can help you reduce downtime and costs. The formula is designed to better protect machinery against the elements and premature failure. Read the article inside to learn more about this innovative product, which can be used in all Komatsu equipment and other all-makes equipment with Cummins engines.

There are also several other valuable articles for you to enjoy, including an update on bonus depreciation, which was recently restored to 100%.

As always, if there's anything we can do for you, please don't hesitate to contact us.

Sincerely,

Dan Healy
President

The **DML**
DIESEL MACHINERY, INC

Difference

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Published for Diesel Machinery Inc.
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Building on efficiency

KC Construction Company's technology-driven approach delivers precision and value for restaurant projects

Customer snapshot

Company: KC Construction Company

Employees: 6

Area of expertise: Sitework for restaurants

Komatsu equipment: D39PXi, D51PXi and D61PXi IMC dozers; PC210LCi and PC360LCi IMC excavators

Komatsu technology: intelligent machine control (IMC)

Kirby Cordell, owner of KC Construction Company, has built a commercial contracting business specializing in restaurant sitework projects. KC Construction provides nearly turnkey site preparation services and remains highly efficient by keeping most work in-house with a streamlined six-person team.

Increased productivity with IMC

One of KC Construction's key competitive advantages is its fleet of technology-driven machines. The team uses a range of Komatsu intelligent machine control (IMC) dozers and excavators, which have been transformative for KC Construction's productivity. The equipment helps the company complete jobs faster, with less staffing and high accuracy.

"We started with a Komatsu D39PXi dozer and saw how efficient it was, so we invested in a D51PXi dozer and a PC210LCi excavator, and then a D61PXi dozer and a PC360LCi excavator as our projects grew," Cordell noted. "With GPS on our machines, one operator can handle grading that used to take several people. It saves us about 50% to 75% in time and labor. The precision these machines bring to our work also helps us save on materials — you're not wasting anything — and allows us to deliver exceptional quality."

The need for manual surveying and grading adjustments is also reduced with Komatsu IMC equipment.

"The digital screen inside the machine shows exactly where we're at, so we don't have to stop and check with surveyors," Cordell explained. "It lets us know our position, where the entrances are, where the islands are, and even the storm and sewer lines, so we stay on track without stepping out of the cab."

Recently, KC Construction has been working on a complex site for a new chain restaurant location. The team's Komatsu PC360LCi and PC210LCi IMC excavators have been instrumental in handling extensive earthmoving and precise grading.

"With GPS on our machines, one operator can handle grading that used to take several people."

-Kirby Cordell, Owner

"On our last project, we moved about 55,000 yards of dirt, and the 360 was excellent — with a 5-foot bucket, you couldn't beat it," Cordell said. "We load out over 140 loads a day, and it hits the subgrade perfectly."

Cordell continued, "We like that the PC210LCi is easy to haul and easy to move. It's small enough to get in the tight spaces, yet it's big enough to peel out whatever you need to."

KC Construction turns to its Komatsu D51PXi and D39PXi IMC dozers for smaller projects. These machines are compact enough to handle tight grading projects with ease.

"The D39PXi dozers are excellent for our little 2,400-square-foot projects or sites that are three-quarters of an acre," Cordell commented. ■

By the numbers

- **50% to 75%** time and labor saved due to Komatsu IMC equipment
- **140+** loads per day with a Komatsu PC360LCi IMC excavator
- **55,000** yards of dirt recently moved on a project with a Komatsu PC360LCi IMC excavator
- **2,400**-square-foot projects are ideal for a Komatsu D39PXi IMC dozer

**The opinions expressed here are from the end user as quoted. The results described herein are those of these end users under certain conditions. Individual results may vary.*



An operator pushes base material evenly across the parking lot using a Komatsu D61PXi intelligent machine control (IMC) dozer.



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Third generation continues legacy

Twin brothers Nathan and Peter Healy want to maintain the family business while looking to the future and ways to better service DMI's customers

Ask Nathan and Peter Healy what sets Diesel Machinery Inc. (DMI) apart from the competition and the twin brothers are quick with an answer.

"That's an easy question. We are one of the last family-owned construction dealerships in this area, and that gives us a lot of flexibility and grace toward our business and employees," said Nathan, noting that DMI employs about 100 people between its three locations. "Because of that, we have a high retention rate, with several employees being here 35 years-plus, and that's reflected in our long-standing relationships with customers. They trust us to take care of them."

That's been the case for three generations. The brothers' grandfather, Pat Healy, formed DMI, and their father, Dan Healy, is the company's current president.

Nathan worked several summers in DMI's Sioux Falls, S.D., shop. He also spent some time in the parts department and did an internship before taking on a role in finance about two years ago. He's currently DMI's sales administrator.

"I make sure all the sales process, and the paperwork is there — all the I's are dotted and T's are crossed," explained Nathan, who got a degree in finance from Augustana University in Sioux Falls. "I'm working on workflow automation and adopting AI (artificial intelligence) as part of the process. I think that will cut down on paperwork and increase efficiency. Preparing our machines and having more consistent standards across the board is another goal of mine."

Grow the business

Peter joined DMI full time earlier this year after completing a business degree. He is currently an internal parts and service sales representative (IPSSR), which involves monitoring machine telematics such as Komatsu's My Komatsu/Komtrax and JCB's LiveLink to identify issues or maintenance needs that should be addressed.

"I take the information to our service manager or branch product support rep, who contacts the customer to set things up," described Peter. "It's extremely important because a fast response time minimizes downtime. Preventative maintenance is really the big ticket item, so I look for minor issues that typically lead to large problems to help prevent a catastrophic failure."

Both Nathan and Peter have ambitions to keep the legacy alive and someday lead DMI.

"I think that's the ultimate goal, but it's going to be awhile," stated Nathan. "For now, I want to learn as much about the business as possible, so when that day comes, I'm prepared for it."

"We are one of the last family-owned construction dealerships in this area, and that gives us a lot of flexibility and grace toward our business and employees."

*-Nathan Healy,
Sales Administrator,
DMI*

Peter added, "We want to grow the business and continue our strong reputation with our customers going forward, enriching our employees' lives. We take great pride in our customer relations and customer service because we see them as the most important part of what we do."

Nathan and Peter are both car enthusiasts and enjoy traveling to tracks to drift. Nathan recently married his wife, Mia, and the couple enjoy spending time together and with their golden retriever, Zona. Peter likes to golf, fish, ski and hunt. ■

(L-R) Twin brothers Peter and Nathan Healy are carrying on their family's legacy at DMI.



Experience the next level of innovation

CONEXPO-CON/AGG will return to Las Vegas with new features slated for North America's largest construction trade show

CONEXPO-CON/AGG will return to the Las Vegas Convention Center from March 3 to 7, 2026, introducing new features and innovations to the triennial event, which is the largest construction trade show in North America. The 2023 show set an attendee record with more than 139,000 from 133 countries. Over 2,400 exhibitors participated, spread across 3 million square feet of exhibit space.

"We are especially excited to create new experiences and features for both attendees and exhibitors."

*-Dana Wuesthoff,
CONEXPO-CON/AGG Show Director*

"The continued growth and success of CONEXPO-CON/AGG has set a new benchmark for the industry," said CONEXPO-CON/AGG Show Director Dana Wuesthoff. "Building on this momentum, we will deliver an even more impactful event in 2026, continuing to provide unparalleled opportunities for networking,

education and highlighting the latest innovations in the construction industry. We are especially excited to create new experiences and features for both attendees and exhibitors."

New in 2026

Ground Breakers stage: The keynote stage will highlight the global contributions of the construction industry and bring focus to critical industry topics.

Key topics include:

- Innovation in construction technology and practices
- Public policy impacting the industry
- Workforce development and addressing labor challenges
- Sustainability and environmental responsibility
- Mental health and well-being in the construction sector

EmpowerHER workshop: During Women in Construction Week 2026, the EmpowerHER workshop will be a special



North America's largest construction trade show, CONEXPO-CON/AGG, will return to the Las Vegas Convention Center March 3-7, 2026.



2,000 exhibitors are expected at CONEXPO-CON/AGG 2026, including Komatsu.

event dedicated to addressing the unique challenges and opportunities women face in the construction industry.

This program includes:

- Networking events fostering connections and community among women in the construction industry
- Peer-led panel discussions and keynote presentations featuring industry leaders and experts
- Sponsorship opportunities to support and promote women-focused initiatives

Small Business workshop: This recognizes the vital role of small businesses in the construction sector, addressing the unique challenges faced by small business owners.

It will provide:

- Networking events to build valuable connections for small businesses
- Best practices and practical tools that can be implemented immediately
- Sponsorship opportunities to support small business success

Shop Talks and Walks workshop: This maintenance-focused program is designed to provide attendees with practical solutions for everyday challenges.

This program will feature:

- Special events focused on preventive maintenance, equipment efficiency and increasing uptime
- Educational opportunities focused on providing attendees with the tools to solve real-world challenges

Visit Komatsu

Komatsu is expected to have a large booth in the West Hall (W41945) and welcomes all to take an up-close look at its latest products, designed to help improve your operation. Meet with Komatsu experts to learn more about the equipment, Smart Construction solutions and services offered. ■

CONEXPO-CON/AGG in focus

Held every three years, CONEXPO-CON/AGG showcases the latest equipment, products, services, and technologies for the construction industry, along with industry-leading education. For more information, visit <https://www.conexpoconagg.com>.

When: March 3-7, 2026

Where: Las Vegas Convention Center

Expected exhibit space: 2.9 million square feet

Expected exhibitors: 2,000

Education sessions: 150

Supplying Sandvik

Combination of advanced Sandvik mobile crushing technology and strong customer relationships is a winning formula for Diesel Machinery Inc.

Since being appointed as Sandvik Mobiles' distributor just over three years ago, Diesel Machinery Inc. (DMI) hasn't looked back. Signing the contract with Sandvik in November 2021, Dan Healy, President of DMI, said, "The mobile range complements our existing portfolio and would offer customers a wider choice of equipment from a reputable brand."

With over 25 years of representing a number of crushing and screening brands, DMI is an experienced supplier with a reputable name in the industry. DMI's mission is to achieve long-term customer satisfaction by providing the finest products and quick responses. DMI invites and acknowledges innovative ideas that can strengthen its organization, and it is with this ethos that DMI has become an early adopter of some of Sandvik Mobiles' latest crushing and screening developments.

DMI was one of the first dealers in the United States to order the QI353 tracked impact crusher complete with a modular hanging screen. Launched in 2022, the QI353 features a new ground-up midsize track platform and custom Prisec impact crusher. Targeted at quarry, recycling and contractor segments, the QI353 is the most versatile, mid-sized

mobile impactor available on the market today and designed to provide more uptime than any other.

Going big with supply of the largest unit to date

Earlier this year, DMI succeeded in securing an order for the largest unit in the Sandvik range of tracked jaw crushers, with the supply of a UJ640E to one of its long-standing customers and large aggregate producers in the Midwest. This particular model was selected for its efficiency and high capacity to fulfill the customer's production needs.

This beast of a unit stands at an impressive 24 feet tall when in operation and weighs in at 151.5 tons. Featuring the Sandvik CJ615 single toggle jaw with a giant feed size of 60 inches by 44 inches, the UJ640E is capable of achieving outstanding rates of production.

The UJ640E is a dual-powered unit and offers a lower cost-per-ton alternative to diesel. It comes with an onboard diesel generator and electric plug-in to connect to the grid, so customers can choose the most efficient means to operate. This has environmental benefits, reducing not only its fuel consumption but also its carbon footprint and providing

The Sandvik UJ640E tracked jaw crusher stands at an impressive 24 feet tall when in operation and weighs in at 151.5 tons.





The Sandvik UJ640E tracked jaw crusher is a dual-powered unit and offers a lower cost-per-ton alternative to diesel.

cleaner working conditions on-site through less operating noise and emissions.

In addition, the unit also comes fitted with a dust suppression system as standard to minimize dust emissions and rubber lined impact zones for reduced operating noise.

Supplying the first mobile unit of this size proved a simple process and one which DMI took in its stride. The unit is transported in two separate units and easily installed on-site. Training was provided upon commissioning and support offered by Sandvik to DMI.

The UJ640E offers significant advantages beyond fuel economy, particularly with its fully electrically driven components. This design enhances reliability and minimizes maintenance, making it surprisingly user-friendly for such a robust unit. Customers have expressed satisfaction with its productivity and efficiency, particularly appreciating the dual power feature and reduced operating costs.

Encompassing the full portfolio from tracked to wheeled

In addition to the supply of this heavy range of equipment, embracing new technology is also at the forefront of DMI's operation. It has

recently become an early adopter of a brand new UJ313 heavy wheeled electric crushing plant, launched into North America earlier this year.

Designed for quarrying and recycling operations, the UJ313 wheeled jaw crusher had been on test with one of its customers. After undergoing rigorous testing, the machine's impressive productivity and efficiency quickly caught their attention. Recognizing its potential for a rapid return on investment, the customer promptly placed an order. This decision underscores the machine's ability to enhance operational effectiveness and drive profitability in demanding environments.

Working in a closed-circuit plant alongside a screen and then feeding a cone crusher, the UJ313 has "really performed well," according to Nick Wallin, Crushing and Screening Specialist at DMI, reporting that the customer hasn't looked back since introducing the UJ313 into their operations.

Customers put their trust in DMI and subsequently, DMI has put its trust in Sandvik with not only the supply of tried and trusted mobile solutions but also showcasing its commitment to leveraging innovative developments to really put DMI on the map as a leader in its market. ■

Data-driven solutions

Smart Construction suite can help you increase productivity, track it and make critical decisions that affect it faster

Data is a driving force behind making critical decisions that can potentially have a major impact on construction companies' bottom lines. With new machinery and technology, data is more accessible and faster to get than ever before.

"Machine intelligence that collects data and software that gives users the ability to access it via the cloud from practically anywhere and at anytime continues to increase exponentially," said Jason Anetsberger, Director, Customer Solutions at Komatsu. "Users can visualize production, collect as-built data and update plans remotely in real or near-real time. That promotes a more proactive approach to decision-making that factors into project-scheduling adjustments and affects profitability."

A good example

Anetsberger used an example that included multiple Komatsu Smart Construction solutions such as intelligent machine control (IMC) dozers and excavators with factory-integrated GPS grade control and 3D Machine Guidance, which can be added to traditional excavators and is now a factory-install option on some newer machines.

"Those machines are collecting data in real time, and that is aggregated into our Smart Construction Dashboard solution that gives

users a clear picture of the current as-built," noted Anetsberger. "You can easily track information such as how much material has been moved, length of trench dug and more. In addition to making adjustments that affect productivity, you can use that information to document the project and prove it was built to plans with little to no surveying. If a change in plans occurs, Smart Construction Remote lets you send the plan update directly to the machine without the need to drive to the site, saving time and expense."

Anetsberger continued, "We recently had a first-time technology user on a project utilizing a PC490LCi-11 IMC excavator and Dashboard. The project involved digging underwater and was on a site where drone flights to survey weren't allowed. The contractor did a daily as-built and reported it to the site's owner and the state department of ecology. It proved a huge success to all, especially the contractor who completed what was scheduled to be a 45-day excavation in 20 and had an accurate representation of the finished job. They will now use a D61i IMC dozer and Dashboard to fill in the site, put it to final grade and complete a new as-built."

Adding solutions

Komatsu IMC machines, 3D Machine Guidance, Dashboard and Remote are part of Komatsu's Smart Construction suite of solutions designed to increase efficiencies. Anetsberger offered some recommendations for determining what Smart Construction solution makes the most sense for your operation, providing some helpful tips for how to figure out what solutions you need and when is the right time to add them. All the solutions can be accessed and viewed through your My Komatsu account.

"IMC machines were our original solution, and we still recommend them as a starting point on your Smart Construction journey," said Anetsberger. "3D Machine Guidance — formerly Retrofit — is another great option, as it adds an indicate-only system to legacy machines or new machines without IMC. If you have those, adding Dashboard and Remote are logical next steps to make a powerful combination."

To determine your next steps, Anetsberger recommends a further assessment of your goals and asking questions such as:



Several project management solutions are available such as Smart Construction Dashboard that gives users a clear picture of the current as-built data.



- Do you want faster, more accurate mapping and progress tracking?
- Do you want to move to 3D digital plans and combine drone data with 3D design data to confirm quantities?
- Do you want better labor management and cost tracking and be able to do it remotely?

One option is Smart Construction Office, a scheduling and management solution that serves as a central hub for all your jobs and can help replace manual production and cost tracking with streamlined daily automation that delivers timely updates, insights, auto-forecast schedules and cost estimates throughout a project's lifecycle. It also has an artificial intelligence project assistant known as Carmen that works in real time scanning and analyzing information and providing recommendations to keep projects on time and on budget.

Additional Smart Construction solutions include:

- **Design** — Lets you move from rolled-up plans to a digital design file with Komatsu's 3D generation service, so you have accurate data that is easily shared, replicated and updated
- **Drone** — Delivers high-precision mapping that can be done 50% faster than a walking survey; drone mapping helps with planning, sends data as you progress and gives you information that you can turn into efficiencies and better reporting
- **Field** — Connects humans, machines and materials to automate data collection on the jobsite, so you can accurately analyze your operational costs and efficiencies in real time
- **Fleet** — Collects the data you need to help optimize your fleet and track production, all on a mobile app
- **Base/Rover** — Functions as an RTK base station or RTK rover for collecting data, staking features and measuring surfaces relative to 3D designs; works seamlessly with Komatsu IMC machines and Smart Construction 3D Machine Guidance systems

"There are so many easy ways to implement technology solutions into your operations," concluded Anetsberger. "We encourage anyone who wants to streamline and optimize their operations to learn about Smart Construction solutions by talking to their distributor about how to get started." ■



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* When compared to conventional PC360LC-11.

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Engineered for those who get it done

Next-generation Komatsu PC220LC-12 and PC220LCi-12 deliver greater comfort, performance and smart technology for today's hard-working operators

Komatsu's new PC220LC-12 and PC220LCi-12 excavators are built for contractors who want more than just power. Delivering the most comfortable and advanced excavator work environment Komatsu has ever created, the PC220LC-12 and PC220LCi-12 are operator-first machines that blend performance, comfort and smart technology to help boost productivity, shift after shift.

From the ground up, these 21- to 24-ton-class excavators have been reimagined and engineered around a simple premise — empower operators and you'll power productivity on your jobsite. The cab offers 28% more space, 30% more legroom, improved visibility, reduced noise and vibration, and a high-quality heated air-suspension seat. The new 8-inch HD monitor puts machine data, controls and customization options at an operator's fingertips.

Performance gains back up the comfort. A new electronically controlled hydraulic system and high-output engine help deliver an up to 8% increase in digging force, up to 7% more lift capacity and up to 20% cost reduction in fuel than the previous Komatsu PC210LC-11 model. The new P plus mode boosts workload productivity by up to 18%.

Advanced tech and safety

While the PC220LC-12 has some integrated baseline smart technology, such as 2D machine control, contractors looking for next-level capabilities can step up to the Komatsu PC220LCi-12, which adds intelligent machine control (IMC) 3.0, Komatsu's latest smart technology.

Automated features on the PC220LCi-12, such as auto grade assist, auto stop control, bucket angle hold, compaction control, minimum distance control, auto swing and payload monitoring, help reduce operator workload while improving accuracy and boosting productivity. 3D boundary control is the first OEM factory-integrated feature of its kind in the construction industry. It's a unique technology that helps operators work efficiently across the entire jobsite by remembering multiple restriction zones specific to each work area. Auto-swing with travel stop functionality is also an industry first for excavators.

To promote zero harm, these excavators have features like rollover avoidance, KomVision 360-degree camera coverage, object detection, automatic deceleration controls, seat belt reminders and more. Maintenance is simplified with ground-level service points and extended replacement intervals, helping reduce maintenance costs by up to 20%.

By empowering operators with enhanced comfort, cutting-edge technology and customizable features, the Komatsu PC220LC-12 and PC220LCi-12 excavators represent the next step forward for contractors seeking to maximize productivity and reduce total cost of ownership. ■

**All percentage claims are based on a comparison to the previous PC210LC-11 model. Reductions in maintenance costs are due to longer replacement intervals for hydraulic oil and oil filters and longer cleaning intervals for the particulate filter.*

Equipment snapshot

Models: PC220LC-12 and PC220LCi-12

Operating Weight: 53,352-54,675 lbs.

Horsepower: 5% increase

Digging Force: Up to 8% increase

Lifting Capacity: Up to 7% increase

Fuel: Up to 20% cost reduction

Cab Space: 28% larger and 30% more legroom

Visibility: 50% increase

Maintenance: Up to 20% lower costs

Technology: 2D machine control standard and IMC 3.0 on the PC220LCi-12



Komatsu's new PC220LC-12 excavator and PC220LCi intelligent machine control (IMC) 3.0 excavator are ideal for residential and commercial contractors.

Tax-advantaged machinery purchases

Bonus depreciation returns to 100%

The One Big Beautiful Bill Act (OBBBA) has restored 100% bonus depreciation or qualified property placed in service after Jan. 19, 2025, provided that it is acquired under a binding written contract executed on or after that date.¹

This reinstated 100% bonus depreciation encourages businesses to invest in capital improvements by providing a full tax deduction in the first year the asset is placed in service. However, the eligibility depends on the execution date of the purchase agreement — contracts signed prior to Jan. 19, 2025, are only eligible for 40% bonus depreciation, even if the asset is placed in service later in the year.²

Higher amounts for Section 179

One key advantage of bonus depreciation is that it has no cap on the amount that can be

deducted. Businesses can also combine bonus depreciation with Section 179 expensing, another powerful tax-saving tool, although Section 179 does include an annual limit. Section 179 may be particularly useful for smaller capital equipment purchases such as machinery or software. ■

This article is intended for informational purposes only. For guidance specific to your business, consult a tax advisor.

1. <https://kahnlitwin.com/blogs/tax-blog/big-beautiful-bill-act-restores-100-bonus-depreciation-what-businesses-need-to-know-for-2025>
2. <https://mavencostseg.com/100-bonus-depreciation-is-back-for-good/>



Komatsu introduces WA475-11 and WA485-11

These new wheel loaders are built for increased productivity, operator comfort and ease of maintenance

Komatsu’s new versatile WA475-11 and WA485-11 wheel loader models are designed to move material efficiently and effectively, helping to increase productivity while providing improved operator comfort and easy maintenance. Sharp focus has been put on reducing total cost of ownership (TCO).

“In designing the WA475-11 and WA485-11, we focused on what truly matters to our customers based on years of direct customer feedback — efficiency, power, safety and operator comfort.”

*-Bruce Boebel,
Director of Products and Service,
Komatsu*

The WA485-11 offers up to 12% lower fuel consumption, 21% more engine power and 13% faster climbing speed than its predecessor, the WA480-8. The WA475-11 provides up to 7% lower fuel consumption, 18% higher engine power and 40% greater climbing speed than the WA475-10.

Both loaders now include Komatsu Hydraulic Mechanical Transmission (KHMT) engineered

for improved fuel efficiency and productivity. Operators will appreciate the large, comfortable four-pillar cab, angle feedback joystick steering and independent work control to help reduce fatigue on long operating days. The new wheel loaders also feature standard rear object detection and a deluxe LED light package to promote enhanced jobsite safety.

“In designing the WA475-11 and WA485-11, we focused on what truly matters to our customers based on years of direct customer feedback — efficiency, power, safety and operator comfort. These wheel loaders build on proven performance of previous models with innovative advancements designed to enhance productivity,” said Bruce Boebel, Director of Products and Service, Komatsu. “We’re excited to introduce these machines and put them to use for our aggregate customers and beyond.”

Both models offer yard loader configurations that include additional stability features such as a larger bucket, wide low-profile tires and additional counterweight designed to support higher productivity in aggregate applications. ■



Quick specs

Model	Horsepower	Operating weight	Bucket capacity
WA475-11	343 HP	54,542-60,197 lbs.	5.5-6.3 yd ³
WA485-11	362 HP	61,432-64,997 lbs.	6.4-7.2 yd ³

Komatsu’s new WA485-11 offers a range of new productivity and efficiency features.

Tips to help keep operating costs down

Find lower fuel costs with five timely tips

Fuel is a necessity and a major expense item for construction companies. As prices spike, so does the possibility that your profitability might take a hit, but there are ways to help lower your fuel bill and operating costs.

Reduce your idle time

Idling is necessary in certain situations, such as warming up a machine and before shutting down at the end of the day. It could also be justified when you are in high-production activities that involve near-constant movement, such as loading trucks with an excavator and charging crushers with a loader, where restarting would negatively affect productivity.

Telematics helps fleet managers easily track idle time by machine and for their entire equipment lineup. If they see excessive idling, they can then address that with operators and other on-site personnel.

An easy way to help control idle time during unproductive periods is to use the auto idle shutdown function, a feature available on most Tier 4 Final machines. Your machines' operations and maintenance manuals can

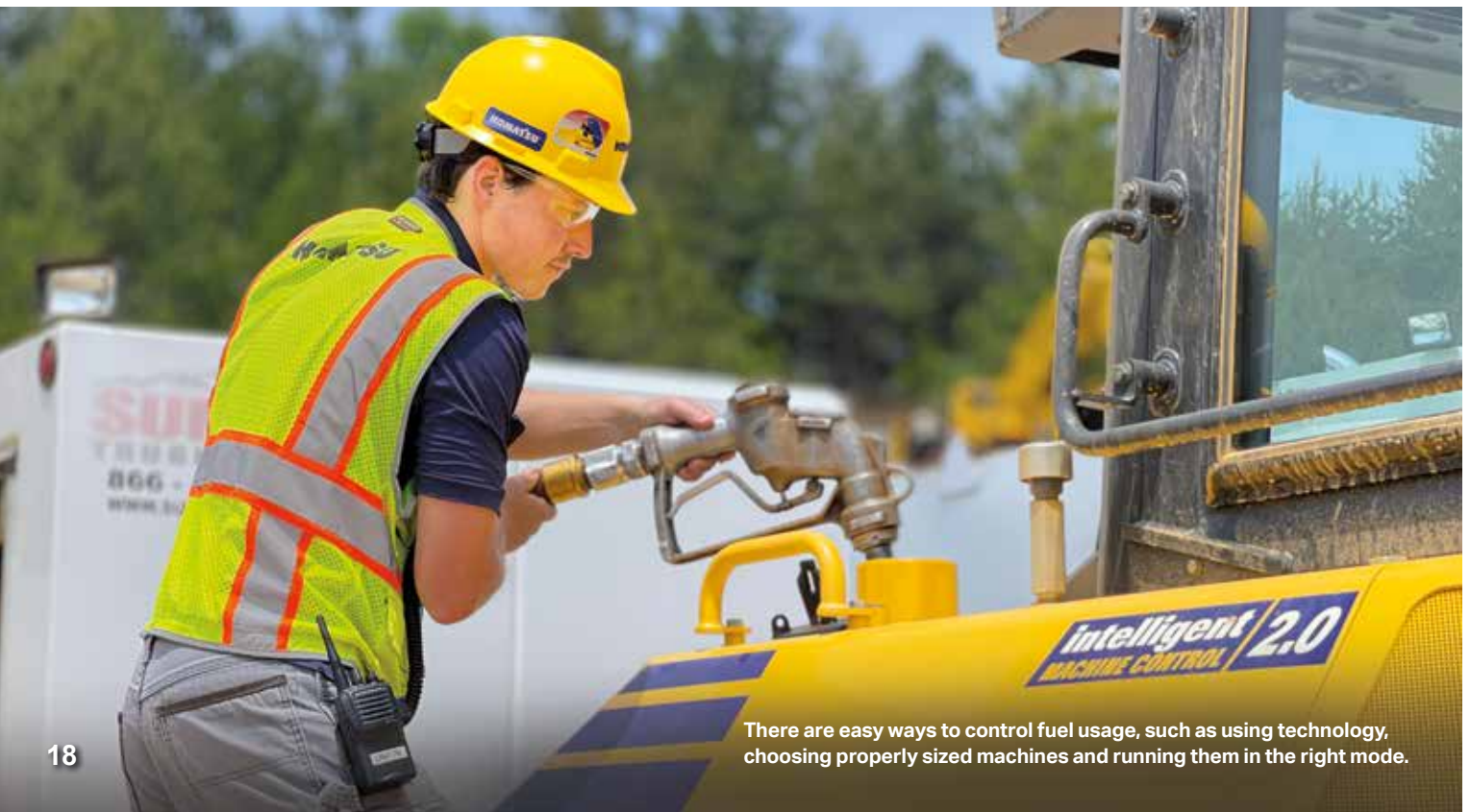
guide you on how to set it—the minimum is five minutes before the shutdown begins in most cases—and your local dealer can help, too.

Heed Eco Guidance and choose the right mode

Komatsu's ECO Guidance provides information to operators on energy-saving operations that help control fuel consumption. It is a feature on most Komatsu machines introduced during the past 10 years. Idling stop guidance is among the suggestions that may be available with ECO Guidance. With this option, typically if no operation is performed for more than five minutes and the engine is idling, the idling stop message is displayed on the monitor.

ECO Guidance is most useful when you choose the most effective mode. ECO Guidance might also suggest operating in "economy" instead of "power" mode.

- The "economy" mode promotes enhanced fuel efficiency but maintains working equipment speed for light-duty work, similar to the "power" mode
- Excavators and dozers are mainly used to dig and move naturally compacted soils,



There are easy ways to control fuel usage, such as using technology, choosing properly sized machines and running them in the right mode.



A hybrid machine such as Komatsu's HB365LC-3 excavator can help conserve fuel significantly.

and in most instances, "economy" mode will get the job done while controlling fuel burn

- The "power" mode is advantageous in heavy-duty applications, such as when a wheel loader must climb a 10% ramp with a full bucket or when an excavator moves hard material like heavy clay

Consider a hybrid

Another thing to consider is purchasing or renting a hybrid excavator, such as the Komatsu HB365LC-3. Hybrid excavator technology is designed to provide a fast and responsive swing, and when swinging, to have all available hydraulic power sent to the boom, arm and bucket to help improve cycle time and enhance production.

Properly size and match equipment for the task

Bigger is not always better, and using a large machine to do a job that a smaller one could do can increase fuel usage and your overall operating costs. Fleet managers need to consider several factors when using

equipment, including choosing the right size for the job.

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

Use advanced technology

GPS-based grading helps promote productivity and control per-yard costs to move material. During the past two decades, GPS technology has advanced significantly, with integrated machine control helping to drive lower costs associated with replacing cables, masts and additional satellites.

Many of today's machines with integrated GPS grade control also feature additional technologies, such as Komatsu's proactive dozing control, that help operators get to grade more efficiently and at lower costs, including better fuel usage. Technology is also helping new operators become proficient at moving dirt faster than ever before. ■

Substantial improvements in performance

WA700-8 wheel loader delivers more power and torque with increased fuel economy that can help reduce operating costs

Komatsu has introduced its new WA700-8, a powerful and efficient addition to its range of wheel loaders designed for quarry operations and aggregate producers. This wheel loader is an ideal four-pass match with 70-ton trucks such as Komatsu's new HD605-10 haul truck. The WA700-8 also offers substantial performance, efficiency and operator comfort improvements compared to its predecessor, the WA700-3.

Compared to the previous model, the WA700-8 delivers:

- Up to 8% more gross power and 15% more torque, making it a robust choice for demanding work environments
- A 6% increase in lifting force and rated load, allowing operators to handle larger volumes of material with greater ease
- Up to 8% more fuel efficiency, helping reduce operating costs while maintaining high productivity

The WA700-8 features a comfortable cabin with technology designed to help reduce operator fatigue on long shifts. This includes a new advanced joystick steering system and electronic pilot control levers for precision and ease of operation. An automatic digging system, semi-automatic approach, and semi-auto dump

systems simplify repetitive tasks, helping operators optimize load cycles. These systems are particularly beneficial for less experienced operators, helping to close skills gaps and enhance overall operational efficiency.

Make every pass count

On challenging terrain, the variable traction control system helps prevent tire slippage, prolonging tire life and improving safety in wet or slippery conditions. The loader's modulated clutch system offers precise control for smooth transitions between forward and reverse, which is critical during truck-loading operations. An available KomVision camera system provides operators with a comprehensive view of the machine's surroundings, and Komtrax Plus offers remote monitoring and data-driven insights that can help reduce unplanned downtime.

"The new WA700-8 can help quarry operations hit that sweet spot for 70-ton truck loading, making every pass count," said Sebastian Witkowski, Product Manager. "With a heavier operating weight, greater static tipping load and larger breakout force than the previous model, the WA700-8 is a productive and efficient wheel loader that is ideal for quarry operations." ■

Quick specs

Model	Operating weight	Net horsepower	Bucket capacity
WA700-8	214,069 lbs.	773 HP	12.0 yd ³



The WA700-8 is Komatsu's newest addition to its lineup of wheel loaders for quarry and aggregate operations.

Advanced formula with phosphates

Komatsu Supercoolant helps provide better protection against corrosion and a longer life to reduce downtime and costs

Your equipment can face a range of temperature extremes. Without proper protection against high heat and extreme cold, corrosion could occur in the engine, which leads to performance issues. The new Komatsu Supercoolant delivers a formula designed to better protect components against the elements and premature failure.

Komatsu Supercoolant uses advanced POAT (phosphated organic acid technology) with corrosion inhibitors. The new formula has been certified for use in Cummins heavy-duty diesel engines and meets CES 14603 standards. This means it can be used in all Komatsu equipment and other all-makes equipment with Cummins engines.

"The new Komatsu-specific formula adds phosphates that provide extra protection for components against corrosion. That protection helps ensure long life and that components don't prematurely wear."

*- Tony Laskero,
Senior Manager of Aftermarket,
Komatsu*

"The new Komatsu-specific formula adds phosphates that provide extra protection for components against corrosion," explained Tony Laskero, Komatsu's Senior Manager of Aftermarket. "That protection helps ensure long life and that components don't prematurely wear."

In addition to better protection, the new Komatsu Supercoolant formula has a longer replacement interval — up to 12,000 hours with regular KOWA (Komatsu Oil and Wear Analysis) sampling and adding an extender additive after 6,000 hours.

"KOWA should be performed at every maintenance interval as it's similar to a 'blood test' that can identify issues that need to be addressed before they become catastrophic," Laskero said. "With this new Komatsu Supercoolant, at 6,000 hours, you should perform a KOWA, and if everything is in good working order, you can add the extender to prolong life. An additional KOWA should be performed at 9,000 hours. At 12,000 hours, it's time to flush the cooling system and add new Supercoolant."

When switching from the previous Komatsu Supercoolant formula, a cooling system flush is not needed. However, it should not be mixed with other coolant brands.

"If you are using a different brand of coolant currently, it is advised that you perform a coolant system flush before using Supercoolant for the first time," stated Laskero. "Once you have Komatsu Supercoolant in your machinery, you get extended interval replacement, which can help reduce downtime and maintenance costs. A bonus is you can use it in non-Komatsu equipment with Cummins engines."

Komatsu Supercoolant is available in 1-gallon jugs, 5-gallon pails, 55-gallon drums and 320-gallon totes through your Komatsu distributor and on My Komatsu. Consult your machine's operator and maintenance manual (OMM) or distributor representative for the proper fluid level. ■

All comparisons are to the previous Komatsu version or model unless otherwise stated.



The new Komatsu Supercoolant formula uses advanced POAT (phosphated organic acid technology) with corrosion inhibitors.

Real-time data to optimize operations

Smart Quarry Site offers a comprehensive analysis of production and helps you unlock efficiencies that lead to better production

You're constantly challenged to be more productive and profitable in the quarry industry. Meeting these challenges means incrementally improving every aspect of your operation. Precisely tracking, digitizing and analyzing every detail of your mobile fleet can unlock the efficiencies you need to meet your targets. That's the goal of Komatsu's Smart Quarry Site.

"Smart Quarry Site offers a more comprehensive tracking over a longer period of time to provide a more in-depth understanding of a quarry and ways to improve it."

*-Craig McGinnis,
Senior Manager,
Customer Solutions,
Komatsu*

"From a Smart Quarry standpoint, we have two solutions: Study and Site," explained Craig McGinnis, Senior Manager, Customer Solutions, Komatsu. "Smart Quarry Study is a one-time snapshot or benchmark on an operation, whereas Smart Quarry Site offers a more comprehensive tracking over a longer period to provide a more in-depth understanding of a quarry and ways to improve it. We want to reduce total per-ton costs by maximizing and optimizing your equipment and operation."

Hardware and software that tracks

Smart Quarry Site is a software and hardware solution that tracks your machines, then transmits and presents data for you to take action to improve. It delivers a real-time animated overview of every production machine's movement and the materials they are loading, hauling and dumping. Dashboards provide real-time and historical information in insightful and intuitive ways, and each dashboard can generate custom reports.

Smart Quarry Site can help your operation:

- View routes, idle times and locations, so you can remove bottlenecks and waits, increase payloads, reduce fuel consumption and decrease emissions
- Compare operator or shift performance to reward your best operators and coach those needing improvement
- Know how full your haul trucks are, so you can optimize payloads to increase efficiency
- See—in real time—your production against your target and make adjustments to meet shift goals
- Ensure your machines stay productive with comprehensive inspection reporting, issue tracking and maintenance management

"The hardware is wired into your machines, and it's pulling data such as payload from the truck and reporting back to the loader operator,



Komatsu's Smart Quarry team can help you set up and monitor Smart Quarry Site.



Smart Quarry Site is a software and hardware solution that tracks your machines, then transmits and presents data for you to take action to improve.

so they know exactly how many tons per pass they have done," said McGinnis. "Data is communicated via the cloud and shows exactly where the material was picked up, where it was dropped off, how that machine got from A to B, and what speed they were traveling."

What's included with Smart Quarry Site

A Smart Quarry Site subscription includes:

- A site readiness investigation and report
- Initial site master data site setup
- Cloud hosting and server maintenance
- Software and firmware remote updates
- Installation of hardware to each machine
- On-site commissioning for each machine
- One-day operator training for each vehicle and ongoing support

"Smart Quarry Site is brand agnostic, so it's effective on mixed fleets with any combination of trucks, loaders, excavators, graders and dozers," noted McGinnis. "We have a dedicated team that's ready to deploy to the site, monitor and work with customers to optimize their operations."

Prime example

McGinnis used an example to show how Smart Quarry Site can help maximize efficiency and lower overall costs. The solution was employed

on a large quarry, but McGinnis said Smart Quarry Site can benefit operations of all sizes.

"Smart Quarry Site is brand agnostic, so it's effective on mixed fleets with any combination of trucks, loaders, excavators, graders and dozers."

*— Craig McGinnis,
Senior Manager,
Customer Solutions,
Komatsu*

"One customer realized they were underloading, so they saw an uptick of 7% to 8% in their trucks' payloads, which equated to about eight additional tons per truck," McGinnis stated. "If you're running 100-ton trucks, and each has that much more on every load during a 10- to 12-hour day, it adds up significantly. That's a big bottom-line improvement."

McGinnis added, "Something like that could also change practices because if you hit a production target faster, you don't have to run as many hours. That saves wear and tear on the machines, reducing maintenance and further increasing savings. We recommend that you contact your distributor for more information about getting started." ■

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