

August 2022

 C.N. WOOD

WOOD WORKS



RJV Construction Corp. and
Pacella Equipment LLC

Macura Excavating LLC



Serving
you better
with three new
locations

A Message from C.N. Wood



**Robert S. Benard,
Founder**

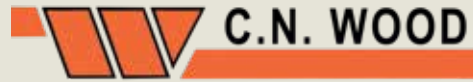


Paula F. Benard



Gerry Carney Jr.

**Technology is
transforming
the construction
industry**



Dear Valued Customer:

We are excited to announce that C.N. Wood recently added three new branch locations in Newington, Conn., Pine Bush, N.Y., and Holmes, N.Y. The territory increases C.N. Wood's presence as a Komatsu distributor in the Northeast. You can read all about the expansion in this issue.

As C.N. Wood has expanded, so has Komatsu's suite of Smart Construction customer support solutions designed to help companies digitally transform their operations throughout every phase of a project. You can learn about Komatsu's new intelligent Machine Control (iMC) 2.0 technology, which introduces additional features such as auto tilt bucket control and bucket angle hold control on several mid- to large-sized construction excavators, including the PC290LCi-11, the PC360LCi-11 and the PC390LCi-11.

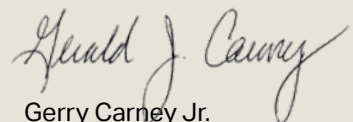
While technology is relatively new in the construction industry, sustainability is not. Construction has been a leader in recycling and reusing materials, as well as diverting them away from landfills. That is great for the planet, but did you know those practices are potentially profitable, too? Discover how focusing on sustainable practices can benefit your bottom line.

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

Sincerely,



**Paula F. Benard
President**



**Gerry Carney Jr.
COO/Vice President**

WOOD WORKS

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Construction Service Manager

Mike Kidd
Environmental Service Manager

Charlie Patenaude
Service Manager, North Haven



Taking on complicated utility projects throughout Boston is not a problem for RJV Construction Corp. and Pacella Equipment LLC

When you hear the name Pacella, the first thing that should come to mind is construction. For two generations, the Pacella family has established itself as a vital component of the Massachusetts construction industry. Their companies, RJV Construction Corp. and Pacella Equipment LLC, are based out of Canton, Mass., and primarily work for the Boston Water and Sewer Commission as well as the Massachusetts Water Resources Authority (MWRA).

"RJV Construction is what we bid work and do our construction through. And then we also have an equipment leasing company, which just this past year switched over from QRS Equipment Corp. — which was my father and his two brothers — to Pacella Equipment LLC. Since they're all retired, and some have passed, we decided it was time to start a new company based on the predecessors."

David, Querino, Ronald III, Victor Jr. and Christopher Pacella serve as managing partners. The brothers and cousins oversee different portions of the companies.

"Our customers appreciate the family involvement because they know they're going to get at least one of us on-site on any given project," stated Christopher. "We're invested in providing our customers the best service possible because it's our name on the machine. Our reputation precedes itself for the care and quality we bring to every job."

David added, "Since I began working with my father in the '90s, the company has grown from five employees to upwards of 70 employees today. Many of them have been with this company for multiple decades. We have entire crews made up of one family. We're a close-knit community and wouldn't be where we are today without the dedication from our employees and their families.

"Our growth over the last 30 years is also due in large part to each of the current managing partners joining the company, learning the business and establishing their own crew," continued David. "We're all educated, but we've known since our dads brought us to job sites on the weekends that we wanted to get dirty. We were all self-taught on how to run this business by going through the motions — starting at the bottom and working our way up. Our experience makes us one of the few contractors who understands what it takes to work in the city of Boston. Whether that's navigating unforeseen utilities or working through the political chain of command, we can handle whatever comes our way."

Typically, the firm completes all aspects of its water, sewer and drainage line repair projects — anything from 2-inch pipe to 85-inch pipe. It also does projects for the Massachusetts Department of Transportation (MassDOT). Additionally, RJV Construction is a member of the Utility Contractors Association of New England Inc. (UCANE) and works with other utility contractors throughout New England to improve the utility industry.

Precision and control

Recently, RJV Construction completed a \$20 million water main pipe job for MWRA in Dedham, Mass. For the town of Easton, the company was awarded a MassDOT project to install new water lines and drainage lines, perform roadway reclamation and paving, relocate utility poles and drainage ponds, and place the granite curbing and sidewalks. The firm is using a Komatsu WA470 wheel loader it originally bought for a job in Harwich, where it cut 16- to 24-foot trenches to replace aging sewer lines.

"We needed a machine that could handle the weight of the trench supports for our deep cuts," explained David. "The WA470 was the

(L-R) The Pacella family includes Victor, David, Christopher, Victor Jr., Ronald III and Querino. "Our customers appreciate the family involvement because they know they're going to get at least one of us on-site on any given project," stated Christopher.





The Pacellas' fleet of Komatsu excavators ranges from the PC55 up to the PC600, including a PC390LC that was utilized by an RJV Construction operator on a recent job site. "The precision and control you get from the joysticks to the reaction of the machine is phenomenal," said Christopher Pacella, managing partner.

only machine that could pick them up. We've been able to transition it into our recycle yard as a pit loader, as well as bring it to recent job sites like the town of Easton."

The Pacellas' history with Komatsu equipment dates back to 1990.

"I operated our excavators for 15 years before moving into my current role," said Christopher. "The precision and control you get from the joysticks to the reaction of the machine is phenomenal. That's why we've bought nothing but Komatsu excavators and are transitioning to Komatsu for our loaders as well."

Their fleet of Komatsu excavators ranges from the PC55 up to the PC600.

"The mini excavator (PC55) is great in tight areas where we have limited space and want to minimize our impact on traffic flow," said David. "Our PC88 works as an in-between machine when we can't get our PC138 on-site. We have a couple of 228 models, a 308, a PC390 and a

PC600. We use an array of attachments with each machine, from tilt buckets to thumbs."

The firm pairs its excavators with complementary wheel loaders, including a new WA320. Its fleet also includes a custom-designed TRUVAC vacuum excavation truck by Vactor Manufacturing.

"In the city of Boston, you can have utilities starting at a foot below the asphalt and going down as far as 12 feet deep, stacked one on top of each other," explained David. "It is challenging to dig in those areas with a hydraulic excavator without damaging other utilities. The Vactor truck works like a giant vacuum cleaner to suck up the dirt and avoid the risk of striking a utility. It's a key piece of our fleet that saves us time and money."

C.N. Wood helps maximize uptime

The Pacellas work closely with C.N. Wood and sales representative Bob Rosa for their equipment needs.

Continued...

'We prefer C.N. Wood and Komatsu'

... continued

"Every job we do is under a deadline," stated Christopher. "If a machine goes down, each minute that ticks by takes off the bottom line. By working closely with C.N. Wood and Bob, we maximize our machines' uptimes and don't

RJV Construction's fleet includes a Komatsu WA470 wheel loader it bought for a job in Harwich, where it cut 16- to 24-foot trenches to replace aging sewer lines. "We needed a machine that could handle the weight of the trench supports for our deep cuts," explained David Pacella, managing partner. "The WA470 was the only machine that could pick them up."



have to worry about the issues we have with competitive brand machines."

"When something does come up, their shop is knowledgeable and can usually walk you through a solution on the phone," added David. "Parts supply is never an issue. Their team is always responsive and helpful. We prefer C.N. Wood and Komatsu because they help us get our projects done efficiently and on time."

Plus, the Pacellas often rent machines from C.N. Wood.

"C.N. Wood has a fleet of Komatsu rental equipment readily available for us at any given time," noted David. "I can call Bob or the rental office and pick up a machine the same day. The pricing is competitive, and the support from C.N. Wood makes it an easy decision."

Attention to details

Over the last five years, RJV Construction has nearly doubled in size. The Pacellas plan to continue growing steadily without sacrificing quality.

"We want the bulk of our work to stay within our basic niche of the Boston utility industry," stated Christopher. "Hopefully we can branch out and add heavy highway construction jobs, which we're dipping our toes in currently. There's plenty of work to keep us and our competition growing."

David agrees that diversifying is a goal for the future and commented, "We're comfortable right now, but we want to continue adding knowledgeable people that will allow us to take on more jobs. We want to remain flexible enough to go where the projects are. Our goal remains to keep our clients happy and pay attention to the details." ■



David Pacella (left) works closely with C.N. Wood sales representative Bob Rosa to find the right machines for his projects. "When something does come up, (C.N. Wood) is knowledgeable and can usually walk you through a solution on the phone," said David. "Their team is always responsive and helpful. We prefer C.N. Wood and Komatsu because they help us get our projects done efficiently and on time."

RJV Construction relies on several TRUVAC vacuum excavation trucks to get its projects done on time, including this new custom-designed truck. "The VACTOR truck works like a giant vacuum cleaner to suck up the dirt and avoid the risk of striking a utility," explained David Pacella, managing partner. "It's a key piece of our fleet that saves us time and money."





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Macura Excavating LLC provides turnkey solutions for multimillion-dollar commercial projects in central Massachusetts



Michael Macura,
Owner

Michael Macura was cemented into the construction industry at a young age. Growing up, his father and uncles took him to their concrete company's job sites where he learned the basics of running a construction company. Nearly a decade ago, Macura went into business for himself and founded Macura Excavating LLC.

"I watched my father and uncles successfully run their small site concrete business until 2010," noted Macura. "After graduating from college with an engineering degree, I spent 7 years as a project manager for a construction manager. In 2013, I was ready to return to my roots in sitework and established Macura Excavating.

"Early on, we committed to only pursuing commercial jobs," continued Macura. "Our first couple of projects were under \$400,000. Within our first two years, we had our first job over a million dollars. That sprung us to the next level and helped us grow exponentially over the last five years."

The company's 24 employees complete \$1 million to \$10 million commercial jobs within a 60-mile radius of its offices in Southborough, Mass. It primarily provides

turnkey services for its customers. As the company has grown, Macura has seen his day-to-day role shift.

"Originally, I wanted to oversee everything and would jump between jobs like I did in my role as a project manager," noted Macura. "Over the past few years, I've transitioned more into the field and am comfortable delegating some of the project oversight to two others. Being on-site helps me feel more connected to the job and allows us to deliver the highest-quality product to our customers. I'm also able to make sure that everybody working here enjoys themselves, has opportunities for advancement, and is safe."

Commercial jobs

Macura Excavating recently began moving earth at a commercial project in Bedford, Mass.

"We're working with a client to create a 100,000-square-foot speculative office building," explained Macura. "It's roughly a nine-month project. We stripped and exported 30,000 yards of overburden and cut 25,000 yards to fill. We're preparing the

Macura Excavating LLC owner Michael Macura (left) works closely with C.N. Wood sales representative Matt Rainha to find the right excavators for its fleet. "From Komatsu Regional Representative Greg Fiore to our sales rep Matt Rainha, C.N. Wood has been a great partner for our company," stated Macura. "Our partnership with C.N. Wood has streamlined our work because we can rely on the shop and equipment when we need it."





► VIDEO

An operator uses a Komatsu PC210LC excavator to load material into a haul truck at Macura Excavating's Bedford, Mass., job site. "The 210 is the most versatile machine in our fleet," said owner Michael Macura. "Its size makes it easy to move around but powerful enough to handle a wide range of jobs. Primarily, we use it for earthwork and utility installation."

building pad for foundations and stabilizing the site before installing the utilities."

According to Macura, this is a typical project for the company.

"Warehouse and office/R&D/Flex space is in high demand right now," stated Macura. "These types of projects are our bread and butter. When the pandemic hit and online shopping took off, we were able to work for large retailers to create warehouse space for them to meet demand."

To keep its Bedford job on schedule, Macura Excavating is utilizing three Komatsu excavators.

"We have two PC210 excavators and a new PC490-11 excavator," noted Macura. "The 210 is the most versatile machine in our fleet. Its size makes it easy to move around but powerful enough to handle a wide range of jobs. Primarily, we use it for earthwork and utility installation. As we've scaled up the size of projects we're completing, we've relied on the 490 to meet deadlines. We primarily use it for heavy earthwork

loading 30-ton rock trucks. It's also used to install deep utilities like deep gravity sewer systems."

Macura added, "The true identity of a machine comes out after 4,000 hours. We've tried multiple brands of machines, and the Komatsu excavators have really stood out. Machine longevity is key, and the Komatsu excavators have outperformed the competition."

C.N. Wood and Komatsu reliable

When Macura switched to Komatsu excavators, it partnered with C.N. Wood and sales representative Matt Rainha to find the right machines.

"From Komatsu Regional Representative Greg Fiore to our sales rep Matt Rainha, C.N. Wood has been a great partner for our company," stated Macura. "Whenever we need parts, they're on top of it. If we need field service or maintenance, they're prompt about getting to us and getting the machines running. Our partnership with C.N. Wood has



Discover more at
CNWood-Works.com

Continued...

'We trust the reliability of Komatsu excavators'

... continued

streamlined our work because we can rely on the shop and equipment when we need it."

Macura Excavating bought its first Komatsu PC210 excavator through Komatsu's remarketing program.

"We initially rented the machine through C.N. Wood's rental program and decided to buy it outright after seeing its performance," said Macura. "We've put over 4,000 hours on the machine after buying it with under 2,000 hours, and it continues to perform. That led us to add our second PC210 through the remarketing program.

"When it was time for us to add a larger machine, we went with the PC490 because we trust the reliability of Komatsu excavators, and we appreciate the treatment we receive from C.N. Wood," continued Macura. "It's been a great relationship that we hope to continue building as we take on new jobs."

Staying consistent

Macura recognizes that more is not always better. He prefers to grow with the economy and focus on doing each project correctly.

"We recognize that the number of projects available is a function of the economy," stated Macura. "If things stay on their path for the next five to 10 years, I'd like to be twice our current size. Right now, we're happy with our current workload, our clientele and just building from there.

"If you're considering starting your own company, don't be afraid to take a chance," advised Macura. "Starting out on my own nine years ago, I didn't think I'd be anywhere close to where I'm at today. If you have an entrepreneurial spirit and dream of being in business for yourself, get the right structure in place and go for it." ■

At Macura Excavating's Bedford, Mass., job site, an operator moves material with a Komatsu PC490LC-11 excavator. "As we've scaled up the size of projects we're completing, we've relied on the 490 to meet deadlines," said owner Michael Macura. "We primarily use it for heavy earthwork loading 30-ton rock trucks. It's also used to install deep utilities like deep gravity sewer systems."





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Wealth of knowledge and equipment added through C.N. Wood's expansion in the Northeast



Robert S. Benard,
Founder



Paula F. Benard,
President



Gerry Carney Jr.,
COO, Vice President

C.N. Wood purchased three full-service Komatsu dealer locations from Komatsu America Corp. — the largest acquisition in C.N. Wood's history — to expand its footprint in the Northeast along I-84, from upstate New York throughout New England.

Dealer locations in Newington, Conn., Pine Bush, N.Y., and Holmes, N.Y., provide distribution rights for Komatsu products and services throughout Massachusetts, Rhode Island and Connecticut, as well as into New York along the Hudson Valley north to Poughkeepsie.

"At C.N. Wood, we have a very high regard for our customers and our employees," stated C.N. Wood President Paula Benard. "Although not small, we are flexible and able to accommodate our employees' career needs and customers' unique requirements. There's a high level of accountability to make sure that nobody is lost in the shuffle."

C.N. Wood previously established business ties in the territory as a distributor for other

non-Komatsu pieces of equipment. The familiarity with the territory allows for an efficient transition to distribute Komatsu machines.

"We have serviced the Connecticut market with Elgin Sweepers, Vactor Manufacturing sewer cleaning, TRUVAC hydro-excavation units, trackless vehicles, and BOMAG road construction and maintenance products," said Benard. "Due to our historic lack of geographic opportunities, we worked to bring complementary products and services to our customers — becoming a one-stop shop. Adding Komatsu to the territory brings everything together under one fold and expands the opportunities for us and our customers to work together."

Improved customer experience

Adding knowledgeable employees is an emphasis for C.N. Wood Chief Operating Officer and Vice President Gerry Carney Jr.

C.N. Wood recently acquired a new location in Pine Bush, N.Y., from Komatsu America's distribution network. "Adding the new territory creates a seamless experience for many of our customers that work throughout the New England and upstate New York region," said C.N. Wood COO and Vice President Gerry Carney Jr. "They are now able to make one phone call, no matter where they are, and know exactly who they are talking to and that their questions will be answered."



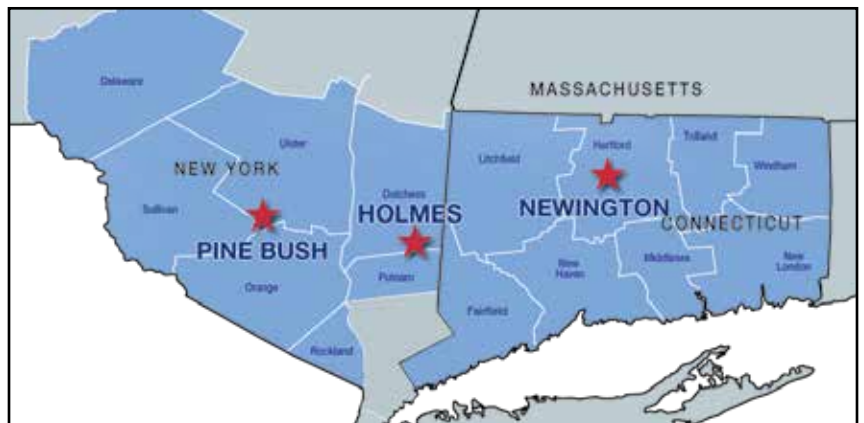


Newington, Conn., (above) and Holmes, N.Y., are now part of C.N. Wood's network. (L-R) Gerry Carney Jr., COO and vice president; Mike Crawford, regional parts manager; Carl Sherman, regional equipment manager; Mark Hufcut, general manager of product support; Kevin Keroack, general manager of sales; and Paula Benard, president, are pictured in front of the Holmes location.

"Many of the employees we are adding bring a wealth of experience to our team that will benefit all of our customers," said Carney Jr. "They are similarly aligned from a cultural standpoint to fit into our company from day one. For our customers, adding 60 experienced employees means we will have more resources and knowledge to draw from to help them build successful businesses.

"Adding the new territory creates a seamless experience for many of our customers that work throughout the New England and upstate New York region," continued Carney Jr. "They are now able to make one phone call, no matter where they are, and know exactly who they are talking to and that their questions will be answered. We take a personal approach with each of our customers to show them how valued they are to our business."

"C.N. Wood and Komatsu share a people-first philosophy," commented Grant



C.N. Wood's new dealer locations in Newington, Conn., Pine Bush, N.Y., and Holmes, N.Y., provide distribution rights for Komatsu products and services throughout Massachusetts, Rhode Island, Connecticut and New York.

Adams, vice president and general manager of company-owned distribution for Komatsu. "This is a great opportunity for C.N. Wood, and we are excited to see one of our longtime partners grow." ■

From time, fuel and maintenance savings to less paper, job site connectivity provides profit potential



Jason Anetsberger,
Director of
Customer Solutions,
Komatsu

Why is job site connectivity such an important consideration for your construction business? Because technologies that support connectivity facilitate better and faster communication between your field personnel and those in the office.

"The potential cost savings of connectivity are quite large," said Komatsu's Jason Anetsberger, director of customer solutions. "With connectivity comes the ability to digitally send files, pull data directly from machines without driving to the site and more. The old saying that 'time is money' really applies because connectivity saves both."

Here are six reasons job site connectivity could potentially pay off for you.

1. Faster responses and adjustments

Few things are worse for project managers than finding out their job site is behind schedule. In the past, they relied on field personnel to phone in daily or weekly load counts, amounts of material moved and other critical information. However, by the time they received such information, the project could be losing money.

Job site connectivity allows field personnel to send information such as load counts, amounts of dirt moved, hours worked and more directly to the office, which reduces paper costs. Project managers can save travel time and fuel by sending design changes directly to connected machines and on-site personnel.

2. Less paper

Historically, superintendents, foremen and other field personnel would take a set — or multiple sets — of plans to the job site, while another set would be in the office. Today, digital plans are more the norm. With a connected job site, plan changes can be sent directly to a tablet, smartphone or a machine.

Paper timecards can also be virtually eliminated. With a connected job site, field personnel electronically log and send hours via email or with several timecard apps available through smartphones and other devices. A bonus is that this is done in near-real or real time, so your office staff doesn't have to wait for timecards to be turned in and spend hours going through them.

3. Time and fuel savings

In the old days, if there was a change in plans, it meant a trip to the job site. Depending on how far away the job site was, that could mean hours in a vehicle and burning several gallons of gas or diesel. When you can transfer files electronically, there is no need to drive to the job site.

4. Reduced equipment service, maintenance and repair costs

A connected job site gives fleet managers the ability to track machine hours more closely than ever. Hours can be accessed directly from the machine, which lessens the potential for going past scheduled service intervals. Missing scheduled service can be potentially problematic and lead to costly catastrophic failures that take big bites out of the bottom line.

A clear, up-to-date picture of machinery's current hours and a better ability to track them lets fleet managers be proactive about scheduling service, maintenance and repairs, and ensures needed parts and fluids are on hand ahead of time. Fleet managers can take equipment out of service at times when it is not needed or after hours to limit downtime, stay productive and increase profitability.

5. Maximized manpower

Intelligent machines have a modem that connects to the cloud via cellular, according to Anetsberger. As they track around the job site, they are essentially functioning as a





Intelligent machines have a modem that connects to the cloud via cellular. As they track around the job site, they are essentially functioning as a high-precision GPS rover that allows you to record as-built data and show progress from afar, virtually eliminating the need for a grade checker who could be used for a more profitable task.

high-precision GPS rover that allows you to record as-built data and show progress from afar.

"It virtually eliminates the need for a grade checker, so that person can be utilized somewhere else in a more productive manner such as installing pipe," Anetsberger continued. "Project managers have almost immediate information about where a machine is in relation to target elevation, and they don't have to wait for someone to phone in or drop off that information. With no guesswork, they can send personnel to perform other tasks sooner."

6. Increased safety = lower premiums

Connectivity goes much further than linking the office and the job site. Connectivity is also available through wearable technology. Smart helmets and safety vests that have enabled tracking and remote communication capabilities can help keep your workers safer. Smart work boots with sensors can automatically alert others if workers enter an area that has been designated as unsafe.

Safety is always a top priority for any job site, and prioritizing safety may also have side benefits including the reduction of potential costs associated with accidents. A better

safety record can also lead to more work, as many entities — including governmental projects — take safety records into account when awarding contracts.

An additional advantage is that a positive safety record could also lower your insurance premiums.

"When determining your premiums, insurance companies consider the likelihood that they'll have to pay out a claim on your behalf. If the risk is lower than normal, you'll pay a lower premium and vice versa," according to Safety Management Group, a privately held safety management company.

"If you have a smartphone, you may have already made the most significant investment in hardware that you need to become connected," added Anetsberger, who also noted that if you have an intelligent machine, you already have the hardware you need to be digitally connected on the job site. "You don't have to invest in huge infrastructure. You just have to be willing to take the first step and identify a solution that will begin to transform your operations."

Anetsberger concluded, "The first step can be tough, but more than likely, it will pay off." ■

Learn more about the connected job site by contacting your C.N. Wood representative or nearest branch location and by exploring Komatsu's Smart Construction suite of solutions at <https://www.komatsu.com/en/site-optimization/smart-construction/>.



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Contractor reaches target elevation faster with new auto tilt bucket control that can follow unique design surfaces

Bobby and Allen Tripp spent countless hours running drag lines and operating dozers for their uncle while growing up on their family's farm. In 1997, the brothers transitioned from farm work when they established their own company, Tripp Bros Inc., which has steadily grown into a turnkey site development operation.

The firm's projects range from installing new construction infrastructure to resurfacing city and town streets. For maximum efficiency, the firm completes all aspects of a project in-house. To meet tightened grade tolerances and compensate for the declining number of experienced operators, the company has turned to GPS-equipped machines.

"The knowledge and skill lost from older operators leaving the industry — and with younger operators replacing them — GPS technology has become essential to our business," stated Bobby. "We rely on the technology to help our operators reach grade. Without our GPS-equipped machines, it would take us three times as long to complete the work."

At its residential jobs, which comprise 75% of the firm's current workload, creating as-built storm retention ponds is a challenge.

"The ponds are an environmentally conscious way to treat water before it's released from the site," noted Bobby. "Because each pond is unique, you can hardly dig them without diverting extra labor and equipment to keep it within tolerances."

Bobby continued, "We've found that with our Komatsu PC210LCi excavator with the new auto tilt bucket control, our operators can build the pond to grade more accurately than they could with a person shooting grade or checking them with a rover."

Maximum efficiency with iMC 2.0 with auto tilt bucket control

Bobby said that the new intelligent Machine Control (iMC) 2.0 technology on the PC210LCi-11, with the optional auto tilt IMU sensor, makes grading the ponds more efficient. By using Komatsu intelligent excavator auxiliary hydraulics, the auto tilt IMU sensor enables automatic control of the bucket/attachment angle to match the cutting edge of the surface.

Like all iMC excavators, the full bucket profile protects against over-excavation — even when the machine is not facing directly toward the target surface. With iMC 2.0 and the IMU sensor, the full bucket edge stays on the surface and automatically returns the bucket to a horizontal position for unloading.

"The machine is set up to tilt the bucket on its own and match a swale based on the design," explained Bobby. "We call it a 'one and done motion' because you don't have to go back and regrade the surface. The tilt bucket slopes, shapes and takes the pond to grade as you go."

"The auto tilt bucket control increases the machine's versatility and removes the need for an iMC dozer to check grade," added Alan Yoder, superintendent. "You're able to tilt the bucket instead of moving the machine to get the correct angle. Even our inexperienced operators find it easier to understand and control."

Bobby notes that the iMC 2.0 PC210LCi excavator improves Tripp Bros' efficiency contouring and crowning roads as well. "When we're undercutting a section of road, we can undercut the surface at a 2% fall and shape a crown in the road. The precision means we don't have to touch material twice. I haven't seen anything on another machine that compares to what this excavator can do." ■



Bobby Tripp,
President



Alan Yoder,
Superintendent



Watch the video

Superintendent Alan Yoder excavates a storm retention pond using a Komatsu intelligent Machine Control (iMC) 2.0 PC210LCi-11 excavator with auto tilt bucket control.

"The auto tilt bucket control increases the machine's versatility and removes the need for an iMC dozer to check grade," said Yoder. "You're able to tilt the bucket instead of moving the machine to get the correct angle."

► VIDEO



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Customer conversations drive improvements that lead to greater productivity with the new BOMAG BM 1200/35-2 cold planer

Successful milling projects involve several factors. You need power to handle large volumes, the flexibility to match machine performance to the task at hand, efficient operation, and the ability to do it all cost-effectively.

"For the new BM 1200/35-2, we listened to our customers and improved the machine on necessary points," said Dennis Frenzius, product manager for milling machines, BOMAG. "We improved visibility, so the operator has a better view of the area in front of the machine, which enables them to maneuver the mill into position more easily, especially in narrow areas such as parking lots. We reorganized some of the functions to make operation more comfortable."

The compact-class cold planer also has BOMAG's Easy Level system, which includes a 7-inch screen that displays all major operating parameters while milling to offer intuitive leveling and control of milling functions.

The 350-horsepower, second-generation BM 1200/35-2 offers greater productivity with a 164-feet-per-minute maximum milling speed. It has a cutting width of 47.2 inches and a maximum cutting depth of 13 inches. The mill optimizes engine output to milling speed to maximize efficiency.

Fine tune cutting speeds

Three milling drum speeds — 85, 95 and 107 revolutions per minute (rpm) — help fine tune cutting speeds to job site conditions.

BOMAG's quick-exchange drum design lets you easily switch drums to match the project.

Optional drums include a fine milling drum with more cutting tools that increases the skid resistance on smooth road surfaces; removes light ruts, uneven areas and road marking; and prepares sites for laying thin layers. POWER DRUMs are available for hard materials. They offer 30% higher performance than the standard drum in that application.

BOMAG's unique BMS 15 L holder system is slimmer than other systems and lowers resistance, which reduces fuel consumption and improves advance rate. Material is efficiently moved from the cutter housing to haul trucks with the large conveyor at capacities of up to 235 cubic feet per hour. The conveyor swivels 45 degrees to the left or right for flexibility in positioning haul trucks. It offers a maximum discharge height of 224.4 inches.

"We want maximum uptime, so setup time is fast, and service is done at ground level with easy access to service points," said Frenzius. "We decreased the machine's weight, so it can be transported more easily. The BM 1200/35-2 is a great all-around mill for parking lots, roads and highways. We encourage anyone who mills to try it and see for themselves." ■



Dennis Frenzius,
Product Manager
for Milling Machines,
BOMAG



Watch the video

► VIDEO

The improved visibility on BOMAG's BM 1200/35-2 allows operators to maneuver the mill into position more easily. The machine also has BOMAG's Easy Level system, which includes a 7-inch screen that displays all major operating parameters while milling to offer intuitive leveling and control of milling functions.



Here's how to access Komtrax data on your registered machines through My Komatsu and use it for savings

Fleet managers know the challenges of getting the information they need to maintain machinery and make important decisions related to service. What if all the utilization data, parts-ordering capabilities, service manuals and more were available on one platform?

"My Komatsu enables users to access and evaluate their assets," said Gabe Saenz, digital experience manager, Komatsu. "It can save many hours of trying to track down machine information and help you be more proactive about service and repairs, when to order parts, and other critical factors related to fleet management."

Most of the information needed to make those fleet management decisions is available via Komtrax telematics, which can be accessed

through a My Komatsu account. Komtrax data includes machine utilization, fuel consumption and idle time.

"Downloading the My Komatsu mobile app and then registering through it is easy," said Matt Beinlich, director of digital support solutions, Komatsu. "We believe, for convenience, the app is the best platform to use, because once you're registered, you can access telematics data from practically anywhere with the app."

To access Komtrax, follow these steps:

- Go to the "My Komatsu" website (mykomatsu.komatsu.com) and sign up for an account
- Click the "Register Now" tab; a distributor representative will contact you to complete the registration process
- Once you have an account, log in and locate the "My Fleet" tab on the homepage
- Select the model or serial number(s) of the piece(s) of equipment you want information for

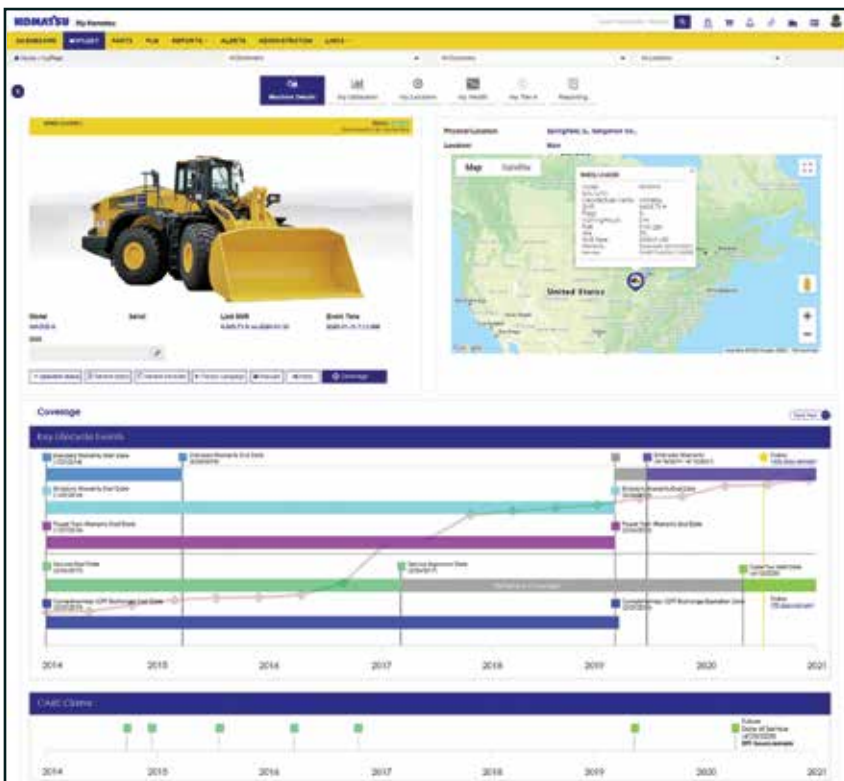
"If you click the 'My Utilization' tab at this point, you can get a breakdown of the machine's working status," said Elliott Hwang, Komtrax system administrator. "Easy-to-read graphs break down and simplify the information. With just a few clicks, you can get monthly reports that will show statistics of critical data. If you notice concerning trends, you can address them."

Hwang continued, "Komtrax lets you set alerts, so you are notified if those continue. Because the parameters of what you want for each machine are different, you can customize the alerts."

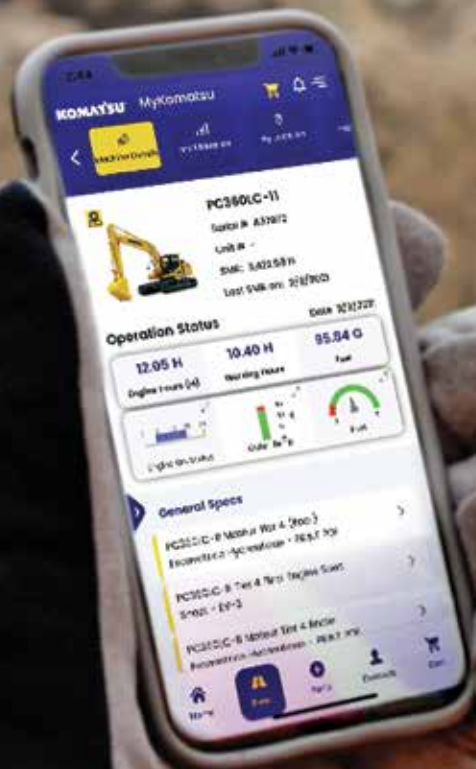
How to decrease fuel consumption

A real benefit of Komtrax is using telematics data to make critical decisions, improve operations and see savings, according to Hwang. He used fuel usage as an example.

"One of a fleet manager's biggest challenges is knowing how many equipment hours are due to idle time versus production when they are not on-site," added Salvador Davalos, Komtrax system administrator. "Excessive idle time is a huge waste of fuel, and with the high cost of diesel, it's critical to conserve as much as possible."



Having current telematics data from your machines lets you make more proactive decisions regarding fleet management and address potential issues such as excessive idle time. "You could set (Komtrax) up to alert you when all machines exceeded the goal percentage or stated fuel usage consumption, but a better approach would be to customize the settings because the goals typically vary by type of machine and the situations they are working in," said Elliott Hwang, Komtrax system administrator.



The My Komatsu mobile app gives you on-the-go fleet management capabilities. “We believe, for convenience, the app is the best platform to use,” said Matt Beinlich, director of digital support solutions, Komatsu. “Once registered, you can access telematics data from practically anywhere with the app.”

Fleet managers have instant access to Komtrax telematics data through My Komatsu. If they see that a machine’s idle percentage is beyond the stated goals they have set, they can then address the issue with the operator and field personnel.

“Fleet managers can show operators ways to reduce idle time such as shutting a machine down during lunch or when there is a long stretch between production times,” said Davalos. “Any cut in fuel costs increases profitability. Setting an alert that notifies you when a machine has exceeded its idle percentage goal provides the information right away without needing to log in to My Komatsu.”

To set an alert:

- Click the “Alerts” tab at the top of the machine’s report page
- Create a condition you want to see, such as percentage of idle time
- Select the machine(s)
- Enter the emails of the users that you want to be notified

“You can set up Komtrax to alert you when all machines exceed the goal percentage or stated fuel usage consumption, but a better approach

would be to customize the settings because the goals typically vary by type of machine and the situations they are working in,” said Hwang. “For instance, you may have one percentage for all dozers and another for excavators. You can even set alerts for individual machines. No matter what you do, the idea is to proactively track idle time and fuel usage, and decrease both as much as possible.”

Further savings ahead

Currently, only Komtrax telematics data for registered Komatsu machines is available through My Komatsu. But soon, you will have the ability to access telematics data for other manufacturers’ equipment as well, giving fleet managers even more information they can use to drive savings.

“Some of our data will be available on other OEM (original equipment manufacturer) systems as well; it’s good for those managers with mixed fleets,” said Saenz. “The key differentiator is that, as has always been the case, Komtrax remains complimentary. We want users to see and use the data to increase their efficiencies and production, as well as lower their owning and operating costs.” ■

For more helpful information, including videos about My Komatsu and Komtrax, visit <https://www.komatsu.com/en/services-and-support/equipment-monitoring-and-analysis/my-komatsu/> and <https://mykomatsu.komatsu/>.



How to integrate tech to overcome job site challenges



Jason Anetsberger,
Director of
Customer Solutions,
Komatsu

Job site challenges are nothing new, but today's technology lets you overcome them more quickly. Whether by providing real-time data, tracking productivity, or helping you remotely visualize a job site, implementing some of the latest equipment and management technology can help you advance solutions like never before.

Start Smart

Construction has increasingly become more digital. Building information modeling (BIM) allows various stakeholders to collaborate throughout the course of a project using a 3D model of a site or structure. All parties involved — engineers, architects, contractors and their personnel, and project owners — have access to the digital plans. Everyone can see and track progress, and make updates much more quickly than in the old days with paper plans, job site visits and phone calls.

That's a definite advantage for project managers who may be overseeing multiple jobs and can't always get to those sites but still need reliable, accurate data and the ability to communicate design changes quickly.

Komatsu already has a suite of Smart Construction customer support solutions designed to help companies digitally

transform their operations throughout every phase of a project. Among them is **Smart Construction Drone**, which provides survey technology that builds an accurate topography of a site safely, quickly and easily.

"High-precision drone mapping is faster than traditional surveys, so you save time and costs," said Jason Anetsberger, director of customer solutions, Komatsu. "Preconstruction flyovers let you see things you can't with paper plans. Consistent drone flights throughout a project give you information about progress across the entire site and assist with progress tracking."

Anetsberger added that Komatsu's Smart Construction experts can work with you to get a 3D model built and help with drone flight.

"Using **Smart Construction Dashboard**, you can calculate takeoff quantities for bids, move from 2D to 3D for optimized machine data, and eliminate the need for paper plans," said Anetsberger. "The 3D design plans can be uploaded directly into Komatsu's Smart Construction intelligent Machine Control (iMC) excavators and dozers with the use of Smart Construction Remote, including new iMC 2.0 models that have technology upgrades to further automate earthmoving operations."

A lack of skilled operators is a huge challenge for earthmoving companies right now, but with automation, new operators can become productive faster. Komatsu intelligent Machine Control (iMC) dozers with automated features enable operators to cut/strip from existing terrain, regardless of skill level. The ability to use automatics from first pass to last, instead of just during finish grading, significantly reduces the time it takes to reach target elevation.





Accurate slope digs and changes in elevation present challenges for excavators. Komatsu iMC 2.0 excavators let you dig straight to grade using one machine with integrated GPS and uploaded 3D data models. The latest generation (PC210LCi-11, PC290LCi-11, PC360LCi-11 and PC390LCi-11) can help improve production by up to 33% and efficiency as much as 63% compared to conventional excavation and grading methods.

Automate dozing

A lack of skilled operators is a huge challenge for earthmoving companies right now, but with automation, new operators can become productive faster. The ability to use automatics from first pass to last, instead of just during finish grading, significantly reduces the time it takes to reach target elevation.

Komatsu's iMC 2.0 dozers with integrated GPS feature proactive dozing control that enables operators to cut/strip from existing terrain, regardless of their experience level. This is because the machine's GPS technology decides on the action of the blade, such as whether to cut and carry, spread, fill or finish grade. The dozer measures the terrain as operators track over it and then uses the data to plan the next pass — which can improve productivity by up to 60% compared to the previous generation.

The iMC 2.0 dozers have additional technology features:

- Lift layer control helps eliminate excess fill as the automatic blade control follows the finished surface once lifts have reached target elevation. A simple press of a button optimizes earthwork productivity.

- Tilt steering control automatically tilts the blade to maintain straight travel during rough dozing and reduces operator steering input by up to 80%.
- Quick surface creation lets operators create a temporary design surface with the press of a button. Combined with iMC 2.0 functions, crews can begin stripping or spreading using automated input while waiting for the finish grade model.

Virtually eliminate over-excavation

For construction companies, over-excavation on trench, footing and basement digs have long been an issue. This leads to extra work and more costly materials to replace what didn't need to be removed in the first place.

Accurate slope digs and changes in elevation also present challenges. Those are costly in terms of time, surveying, staking, grade checking, and the need for multiple machines such as an excavator to get close to grade and a dozer to finish.

Contractors can significantly reduce such costs using Komatsu iMC 2.0 excavators, because they can dig straight to grade using one machine with integrated GPS and uploaded

For more information about Smart Construction solutions, My Komatsu, Komtrax and iMC 2.0 dozers and excavators, contact your local C.N. Wood representative and visit www.komatsu.com.



Continued...

Reduce costs with Komatsu iMC 2.0 excavators

... continued

3D data models. The latest generation (PC210LCi-11, PC290LCi-11, PC360LCi-11 and PC390LCi-11) can help improve production by up to 33% and efficiency as much as 63% compared to conventional excavation and grading methods.

Komatsu iMC 2.0 excavators have unique features such as auto tilt bucket control that automatically aligns the bucket parallel with a slope, so finish grading can be accomplished without needing to align the machine with the target surface.

Another feature is bucket angle hold control, which helps operators reach finish grade quickly and accurately because it automatically holds the bucket angle to the design surface during arm operation, enabling operators to perform finish grading using only arm input.

Remotely exchange information

Because job sites often evolve and rarely end up finishing exactly as planned, smart businesses are increasingly performing the task of updating plans digitally and remotely with technology such as **Smart Construction Remote**.

Now, you no longer have to travel to the job site with a USB drive. You can send updates directly to connected iMC machines and field personnel from practically anywhere.

"You can also remotely support operators," said Anetsberger. "If they have

an issue with their machine or a question on the digital plans, Smart Construction Remote lets GPS managers and project managers connect with the machine and see exactly what the operator does on their monitor. That eliminates a trip, saving time and money."

Getting updates from the job site is also more convenient with **Smart Construction Field**, which can eliminate the wait for phone calls or field personnel to drop off information. It allows you to digitally track job site activities as well as aggregate personnel, machine and material costs to compare progress status in terms of schedule and costs.

See your fleet data anytime, anywhere

Fleet managers know the challenges of getting the information they need to maintain machinery and make important decisions related to service. What if all the utilization data, parts ordering capabilities, service manuals and more were available in one platform?

"My Komatsu enables users to access and evaluate their assets," said Komatsu's Gabe Saenz, digital experience manager. "It can save countless hours of trying to track down machine information and help you be more proactive about service and repairs, when to order parts, and other critical factors related to fleet management." ■

Editor's Note: This article is excerpted from a longer piece that appears on Komatsu's blog. To read the full article, visit <https://www.komatsu.com/blog/2022/how-to-integrate-tech-to-overcome-job-site-challenges/>.



Job sites evolve, and plans change. Instead of driving to the site to deliver updates, you can send design changes directly to connected iMC machines with Smart Construction Remote. Fleet managers can also remotely support operators and see exactly what they see on the monitor in their machine.



Proprietary iMC 2.0 promotes significant productivity gains for Komatsu's mid- to large-sized construction excavators

Productivity is the key to success on the job site, and the faster a crew can reach maximum productivity, the better. As part of Komatsu's suite of Smart Construction products, services and digital solutions, its intelligent Machine Control (iMC) 2.0 gives contractors the opportunity to take advantage of sophisticated, productivity-enhancing automation.

"Aimed to quickly lessen the skill gap between new and experienced operators — and improve the bottom line for contractors — our excavators with iMC 2.0 technology can help contractors transform their job sites into highly efficient, highly productive operations," said Andrew Earing, senior product manager, tracked products, Komatsu.

Developed with input from leading construction companies, Komatsu's iMC 2.0 offers additional new features such as auto tilt bucket control and bucket angle hold control on several mid- to large-sized construction excavators: the PC290LCi-11, the PC360LCi-11 and the PC390LCi-11.

"They are an excellent match for footing excavation, trenching and slope work, with factory-integrated systems to help minimize over-excavation and empower operators to dig straight to grade quickly and accurately," said Earing.

Exclusive iMC 2.0 productivity features

Auto tilt bucket control assists operators by aligning the bucket parallel with a slope, so finish grading can be accomplished

without needing to align the machine with the target surface.

Bucket angle hold control helps operators reach finish grade quickly and accurately. It automatically holds the bucket angle to the design surface during arm operation, enabling operators to perform finish grading using only arm input.

Both new features build upon the semi-automatic functions that were maintained from the first generation of iMC excavators, including the ability to switch from manual to semi-automatic modes.

"Existing and new technology in the iMC 2.0 excavators has proven to increase production and efficiency while reducing costs," said Earing. "We encourage anyone looking for those attributes to test one for themselves." ■



Andrew Earing,
Senior Product
Manager, Tracked
Products, Komatsu



Watch the video

Quick Specs

Model	Horsepower	Operating Weight	Bucket Capacity
PC290LCi-11	196 hp	70,702-72,091 lbs.	0.76-2.13 cu yd
PC360LCi-11	257 hp	78,645-80,547 lbs.	0.89-2.56 cu yd
PC390LCi-11	257 hp	87,867-90,441 lbs.	0.89-2.91 cu yd

Auto tilt bucket control and bucket angle hold control are exclusive new features of Komatsu's iMC 2.0 excavators, including the recently introduced PC290LCi-11, PC360LCi-11 and PC390LCi-11. "Our excavators with iMC 2.0 technology can help contractors transform their job sites into highly efficient, highly productive operations," said Andrew Earing, senior product manager, tracked products, Komatsu.

► VIDEO



Increase profits with sustainable practices

C“Green” is a trending adjective for a practice construction companies have been following for years. Before it became the norm to recycle, construction companies were recycling construction and demolition (C&D) debris, including steel, asphalt and concrete. As an industry that works directly with the land, many have understood the importance of protecting it through sustainable practices.

While these are important practices for protecting the earth, are you aware of the increasingly wide variety of ways sustainability efforts can boost your company’s value overall? Green practices can help reduce material costs, increase employee retention and ultimately boost profitability as supply chain partners and customers see you as a company worth working with for reasons beyond the traditional requirements.

Here are three ways thinking more sustainably could help boost your bottom line.

Lower costs

According to the United States Environmental Protection Agency (EPA), sustainability is based on a simple principle: Everything that we need for our survival and wellbeing depends,

either directly or indirectly, on our natural environment. To pursue sustainability is to create and maintain the conditions under which humans and nature exist in productive harmony to support present and future generations.

Many new construction projects are done on sites where removing old materials like pavement, foundations, brick and concrete are part of the job. Recycling and reusing these materials on-site can provide significant savings.

Using recycled materials reduces the need to purchase virgin aggregates and the trucking costs associated with bringing them to the job site. It also reduces the need to transport C&D debris off-site, as well as the potential fees to put it in a landfill. Less fuel use as well as reduced wear and tear on trucks lowers repair and replacement costs for consumable items such as brakes and tires.

In some cases, old materials can’t be reused on-site and must be hauled off. These can still have significant value. That’s why numerous companies have set up recycling yards that accept C&D waste and turn it into new products.

Attract and retain top talent

Employee turnover is costly and is estimated to equate to 1.5 to 2 times an employee’s salary when you factor in advertising, training and lost productivity, according to the article “The True Costs of Employee Turnover” published by *Built In*. While you may not have considered it, reducing your environmental impact could be key to lowering those workforce costs, retaining existing talent and attracting new employees, especially younger workers.

“There are numerous surveys that show that younger employees want to work for companies that demonstrate they are committed to sustainability,” said Komatsu’s Caley Clinton, senior manager – PR, CSR and content. “That includes on the job site, as well as in the office through practices such as reducing paper, water and electricity use. Prospective employees also want to know about your community involvement and how you’re giving back in ways that contribute to environmental improvements such as donating equipment, time and labor to projects like tree planting.”

Studies show today’s workforce takes corporate responsibility and sustainable business practices into account when choosing an employer. In this photo, Komatsu executives help plant trees for a corporate reforestation project in West Virginia. “Prospective employees want to know about your community involvement and how you’re giving back...” said Komatsu’s Caley Clinton, senior manager – PR, CSR and content.





Recycling and reusing materials such as old pavement on-site reduces transportation costs, potentially increases profits and lowers emissions, which benefits the environment.

Clinton added that it's important for companies to highlight their sustainable practices in prominent ways so that they stand out to prospective employees.

"Having a section of your website dedicated to what you are doing to reduce your carbon footprint and water usage should seriously be considered," Clinton indicated. "Pictures showing your efforts are helpful. Icons such as the recycling symbol that show your commitment to green practices should be prominent on all your materials, including recruiting items, company brochures and other marketing items. It's an essential part of your brand's value, as long as it is actually a part of your company's culture."

Land more jobs

Just like employees want to work for businesses committed to sustainability, other companies want to work with those who emphasize greener business practices. In many cases, companies or governments are making it a requirement to work on their projects.

"Companies that advance their approach to sustainability now can get the benefit of doing it for the right reasons, being on the forefront of the curve, and helping lead the way in their industries," Clinton emphasized. "If you wait until it's required and have to submit a report to a customer or another contractor you want to work with — and only then realize you don't have all the requirements — you may be at a disadvantage in the near future."

Tips to get started

Clinton said measuring your sustainability is going to be increasingly more essential, and it's never been easier to do.

"There are many companies with software that help track practically everything you do related to sustainable practices," Clinton noted. "Right now, that's mostly at a nice-to-have level, but as more and more requirements are built into regulatory aspects of how companies have to do business, it's going to be essential. Those who don't have those metrics are probably going to miss most, if not all, opportunities. Those that do will likely land more jobs." ■

Editor's Note: This article is excerpted from a longer piece that appears on Komatsu's blog. For more information about how focusing on sustainable practices can benefit your business, visit <https://www.komatsu.com/blog/2022/increase-profits-with-sustainable-practices/>



WORK SMARTER WITH TRACK TRUCKS

Hydrograss Technologies Inc. changed their approach to overcoming challenging areas such as wetlands, landfills and steep slopes with Terramac and is enjoying the gains.

“The carrying capacity and minimal footprint of the RT9 allow us to work in the most inhospitable environments. At one of our solar farm jobs, the machines articulated between each row and glided through the mud, allowing our crew to finish the job quickly and efficiently.”

Robert Arello Jr.
President and CEO
HYDROGRASS
TECHNOLOGIES INC.



DISCOVER THE DIFFERENCE

Terramac machines provide contractors hassle-free solutions for conquering the most challenging job sites.



Industries Maximizing Productivity

- General Construction
- Environmental
- Government
- Landfill
- Pipeline
- Utility
- Renewable Energy



Track Truck Advantages

- Reach job sites wheeled vehicles can't access
- Maximize cycle times
- Low ground pressure minimizes ground damage
- Fixed frame, 360-degree rotating and utility models available



Support Equipment

- Crane
- Concrete Mixer
- Hydroseeding Unit
- Vacuum Excavator
- Personnel Carrier
- Tac Welder/Weld Deck
- Digger Derrick/Pole Setter
- Aerial Lift



Get real-time insights straight from the field

Success of a job site comes down to a simple question: Did we hit our targets for the day? Tracking the costs of labor, machines and materials are the keys to answering, "Yes." With Smart Construction Field, you can say goodbye to pen and paper, and leverage a connected system to analyze your costs against your bid.

You can:

- Get more accurate job site data
- Easily track and analyze daily spending
- Track job site daily activity
- Make better business decisions

Insider Tip: "With Smart Construction Field you can quickly see if you are ahead, on schedule or behind to give you the ability to make faster decisions that affect production," said Bryce Satterly, Komatsu Smart Construction solutions manager. ■

Learn more about this and other Smart Construction solutions at <https://www.komatsu.com/en/site-optimization/smart-construction/#tab3>



A smooth approach for better productivity

A new modulation clutch in the WA900-8 surface mining wheel loader enables the operator to perform smooth approaches when loading trucks. This feature can also help reduce shock when shuttling between forward and reverse, which is particularly beneficial in v-cycle applications.

Automatic dig, semi-automatic approach and dump systems can reduce fatigue and allow operators to focus more on the path of machine travel.

Throttle lock allows operators to set engine speed. When enabled, auto-deceleration automatically decreases the engine speed to low idle when no operator inputs are applied to the controls and the transmission is in neutral.

All of those features can help improve your production and lower fuel consumption.

Insider Tip: "A high-lift configuration to pair with 150-ton trucks is available, as well as optional add-ons that include KomVision with radar object detection for a bird's-eye view of the machine and its surroundings," said Sebastian Witkowski, Komatsu product marketing manager. ■

See more productivity features of the WA900-8 at <https://www.komatsu.com/en/products/wheel-loaders/surface-mining-wheel-loaders/wa900-8/>



New feature reduces operator fatigue

Want to reduce operator steering input by 80%? Tilt steering control on Komatsu intelligent Machine Control (iMC) 2.0 dozers maintains power to the tracks and automatically tilts the blade for straight travel during rough dozing.

Additional benefits include:

- Reduced operator fatigue
- Greater reduction in track slip
- No surface undercuts

Insider Tip: "Use tilt steering control during heavy cutting applications and when simple grading is off," said Ron Schwieters, Komatsu senior product manager, iMC and hardware. ■



Learn more about tilt steering control and other technological advances in iMC 2.0 dozers and Smart Construction solutions at <https://www.komatsu.com/en/site-optimization/smart-construction/#tab5>





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

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USED EQUIPMENT SPECIALS

For more information, call Paul Oliveira at (617) 590-7801!

Manufacturer/Model	Stock No.	Year	Hours
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EXCAVATORS

Komatsu PC210LC-11	KM6571	2018	1,994
Komatsu PC238USLC-11	C002208	2019	2,183
Komatsu PC78US-10	KM6275	2016	2,221
Komatsu PC490LC-10	C003044	2014	9,456
Volvo EC140EL	C002721	2019	1,836

DOZERS

Komatsu D39PX-24	C003403	2019	1,611
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WHEEL LOADERS

Komatsu WA200-8	C002568	2022	119
Komatsu WA270-8	C000860	2021	150
Komatsu WA270-8	C000862	2021	74
Komatsu WA500-7	C002599	2017	14,848
Volvo L70G	C003501	2015	15,432

Manufacturer/Model	Stock No.	Year	Hours
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COMPACTION EQUIPMENT

Bomag BW138AD-5	BO0221	2019	304
Bomag BW161AD-5	BO0196	2018	104
Bomag BW177D-5	CO02327	2019	32
Bomag BW190ADO-5	BO252	2020	580
Bomag BW211D-5	BO0202	2018	418
Hamm HD90	C003402	2008	7,934

TRACK TRUCKS

Terramac RT6	TE0002	2018	530
Terramac RT14R	TE0005	2019	1,043

GRADALL

GRADALL XL3100	C003296	2002	2,095
GRADALL XL4300	C002344	2021	456



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