

UPDATE



RiverBend Materials

Company supplies Oregon's Willamette Valley with aggregates, concrete and asphalt



Ryan Comerford,
Production Manager

A Message from Modern Machinery



Jeff Schwarz



Dear Valued Customer:

I hope 2024 is off to a great start for you. The forecast looks promising across most sectors of the construction industry, and my hope is that your year is filled with numerous projects. There's an article inside this issue that offers an in-depth look at construction industry forecasters' predictions for 2024.

Recently, Komatsu's Quarry Days took place at Komatsu's Arizona Proving Grounds. Quarry Days offered attendees a chance to see and operate more than a dozen machines, including a Komatsu PC2000-11 surface mining excavator and Komatsu's new GD955-7 motor grader with a standard 18-foot blade. In addition to equipment, Komatsu representatives from its Smart Quarry solutions and My Komatsu teams were available to show customers the advantages of incorporating technology into their operations. In this issue, you can read all about the equipment and products that were on display at the event.

In addition to equipment, Komatsu's Smart Construction solutions can help you maximize productivity and efficiency, and you can incorporate them at practically any stage of the construction process, from pre-bid to production to final closure. Be sure to check out the article on how to choose the best solution for your business.

There are several other articles that I believe you will find valuable as you work on projects now and look to the future.

As always, if there is anything we can do for you, please feel free to contact us.

Sincerely,
Modern Machinery

A handwritten signature in black ink, appearing to be "Jeff Schwarz", written over a white background.

Jeff Schwarz,
President

**Looking forward
to 2024**



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See employee directory

RiverBend Materials, a CRH Company, continues expansion to meet the growing needs of Oregon's Willamette Valley



Ryan Comerford,
Production Manager

During the past few years, Oregon's Willamette Valley has undergone a growth spurt. That's created demand for new building materials and fueled growth for RiverBend Materials, which has served the Willamette Valley since 1900 and currently supplies the area with aggregates, concrete and asphalt.

"The entire market for infrastructure has skyrocketed, and we have grown to support it," declared Production Manager Ryan Comerford, who has been with RiverBend Materials since 2017. "There have been a lot of larger distribution facilities move into the area, in addition to housing and commercial construction."

Multiple sides

RiverBend Materials is keeping up with demand by making a wide range of products from the 10 active quarry sites and multiple crushing facilities that Comerford oversees. From the raw materials, RiverBend Materials produces everything from sand and loam to 4- to 6-inch rock, which are available at its retail locations in Salem and Eugene. Comerford noted that the company's aggregate side makes about two dozen standard products.

A large percentage of the finished materials are used in the production of the asphalt and concrete that RiverBend Materials makes at its two asphalt plants, which carry hot-mix asphalt and warm-mix asphalt, and its three ready-mix plants that can supply a wide variety of mix designs.

"We are making asphalt mixes for street and highway overlays, parking lots, and subdivision roads, and for concrete, we produce quite a lot for a variety of projects," elaborated Comerford.

To ensure quality control, RiverBend Materials has its own in-house lab that tests its products. It also works with outside labs to provide independent testing results.

RiverBend Materials uses its large fleet of ready-mix trucks and dump trucks to deliver its products to its own projects as well as other contractors within about 100 miles of its locations.

"We provide aggregates such as base rock to our construction side, which is a little heavier in the Eugene market," commented Comerford. "In addition, we work with customers to meet their custom specifications. We do our best

RiverBend Materials' new wash plant is being fed by an Astec 50-horsepower 54" x 20" vibrating grizzly feeder.

▶ VIDEO





An operator loads a truck with a Komatsu WA500 wheel loader.

to come through for all of our customers' demands on whatever their needs may be."

RiverBend Materials' construction side performs sitework from groundbreaking to finish paving, including excavation, underground utility installation, and asphalt laydown. The company has completed numerous high-profile projects during the past several years, including the Hayward Field renovation at the University of Oregon, which involved 125,000 yards of excavation and putting down 115,000 tons of base rock before paving the track. RiverBend Materials also paved the track at Corban University, laying 1,310 tons of asphalt.

All sides combined, RiverBend Materials employs about 350 people.

"RiverBend Materials is part of CRH, the leading building materials solutions business in North America," remarked Comerford. "At one time, there were several separate entities, including RiverBend Sand and Gravel, Eugene Sand and Gravel, and Valley Concrete. It was a little confusing to our customer base, so everything was rebranded under one brand. One thing that didn't change was our focus on consistently producing quality products, even as we ramped up to meet demand. There's no sacrificing that."

Responsive service, productive equipment

The company recently added new washing and crushing plants in Salem with the assistance of Modern Machinery, especially Aggregate Sales Specialist Steve Ponder and Director of Aggregate Sales Jeff Lininger.

"Given the growth in the area, we chose to reopen one of our facilities, and as we were going through the process of looking at equipment options, we chose to go with Astec," said Comerford. "Support was a big factor. Astec has a manufacturing facility close by in Eugene, so it's local and is well-respected in this area for its dependability, and we have some history with the Astec brand as we have an older asphalt plant. Modern has provided service to us on that following its acquisition of AggReCon West a few years ago."

Comerford added, "Steve and Jeff were instrumental in helping us during the development and decision-making as to what Astec equipment would best meet our production goals. We looked at various setups involving aggregate flows and throughput, efficiencies, and how to really optimize the equipment."

RiverBend Materials' new wash plant is being fed by an Astec 50-horsepower 54" x 20" vibrating grizzly feeder before it's conveyed into a 6" x 20"



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ModernUpdate.com

Continued...

'We see a lot of growth in our business'

... continued

two-deck 6203 scalping screen. Then, it goes to a 6" x 20" three-deck 6203 washing screen. Sand is sent through a 44" 5044-32 twin fine material washer.

Oversized washed materials are transported to the new crushing spread to make a variety of base products. The off-load system uses a 36" x 150" telestacker to stock a drawdown tunnel that is used to feed an Astec Kodiak K500+ cone crusher. Material goes across two 8" x 20" three-deck 8203 horizontal screens. RiverBend Materials uses a 5" x 16" two-deck 5163 wash screen for specialty finished product.

"The setups are definitely meeting what we set out for them to do," said Comerford. "Steve,

Jeff and Modern deserve a lot of credit for that. From planning through construction and now into production, they have been with us every step of the way. We expected that to be the case because of our prior history with Modern and our older Astec equipment, as well as their support of the Komatsu equipment we have purchased from Modern."

RiverBend Materials uses a Komatsu PC1250LC excavator and HD465 mechanical haul trucks to move materials in quarry sites and WA500 wheel loaders in its retail operations, including to feed the new crusher and load trucks at its Salem site.

"We find that the WA500 is the most efficient for loading on-highway trucks where the target is about 14 tons per load — just two scoops, and we can send them on their way," said Comerford. "The trucks give us good production and are dependable, so we keep moving with great uptime."

Continue to meet demand

Comerford believes expansion will continue for the near future.

"We see a lot of growth in our business," he indicated. "We want to ensure that we continue to meet the needs of our customers in the region." ■

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

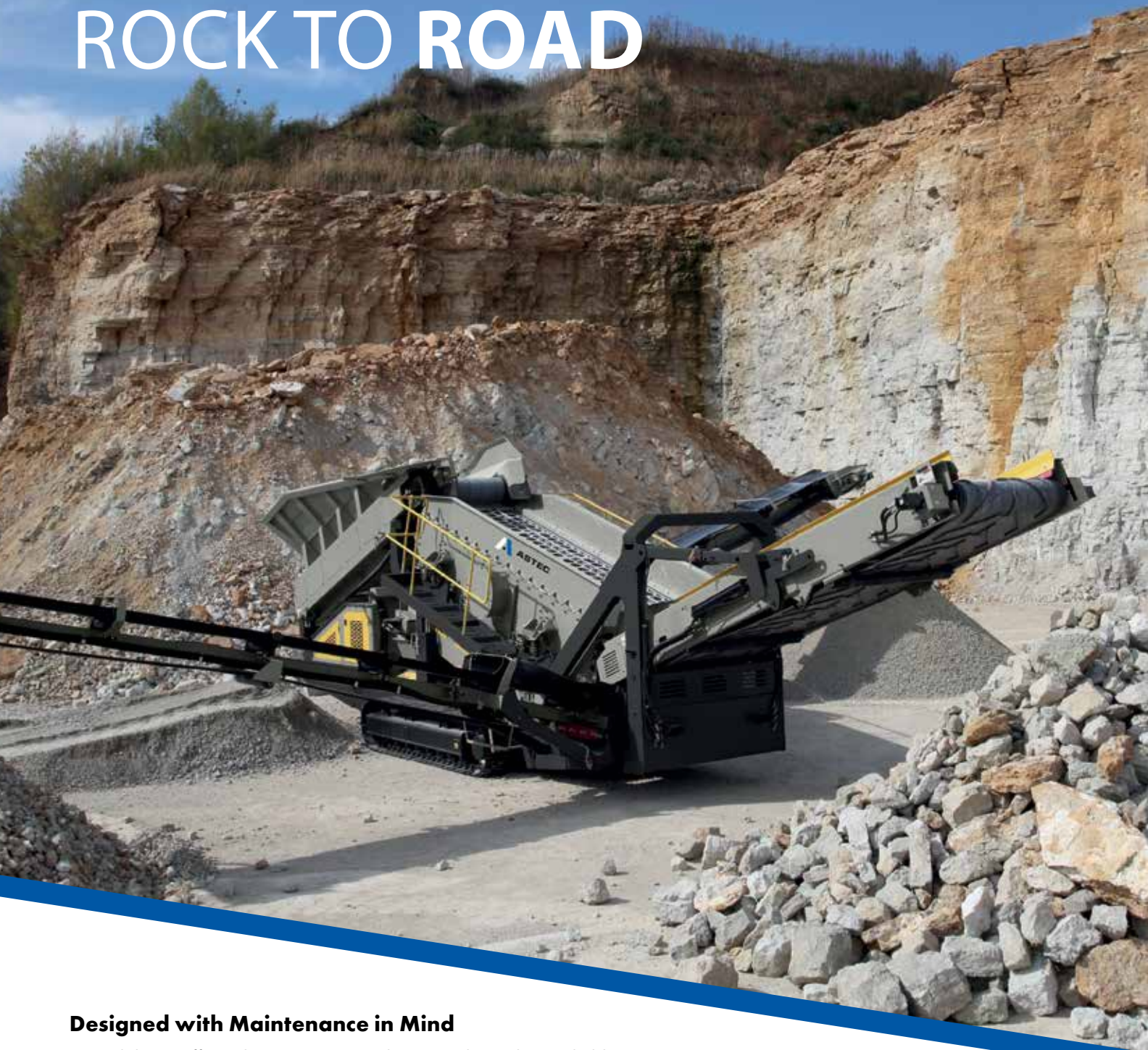


Modern Machinery Aggregate Sales Specialist Steve Ponder (left) talks with RiverBend Materials Production Manager Ryan Comerford about RiverBend Materials' new crushing and washing plants.

RiverBend Materials' new crushing spread at its Salem location features an Astec Kodiak K500+ cone crusher.



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Fed rate pause could have positive effect on housing market in 2024, economists predict overall growth

Late last year, the Federal Reserve indicated it was likely done raising rates in its efforts to bring inflation under control and avoid a recession. Construction forecasters were expecting the news even before it was announced, which led to a primarily optimistic outlook for construction starts in 2024.

According to Dodge Construction Network, overall construction starts are expected to rise 7% this year, following a 1% increase in 2023. That projection would bring total starts to \$1.206 trillion in 2024. Dodge sees all regions of the country making gains, led by the Northeast at 16% and the West at 10%.

“As we go into 2024, we’re starting to see economic growth become more consistent and accelerating by the end of the year,” said Dodge Chief Economist Richard Branch in the article “2024 Forecast: Non-Building, Manufacturing Lead the Way” by Engineering News-Record.

Branch added that the outlook is dependent on the assumption that the Federal Reserve is

done raising interest rates. Dodge expects rates to begin falling in the middle of 2024, according to the Engineering News-Record article.

A rate increase freeze and expected drop later would bode well for the housing market, according to Dodge and other forecasters. Dodge predicts an overall 11% increase, with a rise of 9% in single-family and 14% in multifamily. ConstructConnect predicts a 4.4% increase in overall residential. The National Association of Home Builders forecasts single-family rising 3.7%.

“As interest rates stabilize and then begin to decline after Q1 or Q2, the homebuilding sector will revive,” said Alex Carrick, Chief Economist at ConstructConnect.

Transportation's continued surge

While overall construction was relatively flat in 2023, the transportation sector, which includes public highway, pavement and street construction, was a standout with double-digit growth that saw it reach \$108.6 billion.

Continued...

Potential interest rate cuts in 2024 could spur the housing market, according to construction industry forecasters. Dodge Construction Network sees an overall 11% increase, with a rise of 9% in single-family and 14% in multifamily. The National Association of Home Builders forecasts single-family rising 3.7%.



Positive outlooks for the non-building sector

... continued

The American Road & Transportation Builders Association (ARTBA) expects the trend to continue and increase another 16% in 2024 to nearly \$126 billion, according to Alison Black, Chief Economist at ARTBA.

Black indicated that the rise was influenced by the Infrastructure Investment and Jobs Act (IIJA) because many of the projects supported by IIJA are in the construction phase. Plus, many states are increasing their own revenues to match federal funds and make additional transportation investments, using a combination of general fund transfers, bond issues, business taxes, and other user-fee increases.

Considering IIJA's impact on starts, along with states' increased revenue, ARTBA predicts the total value of overall transportation to grow to \$214 billion, a 14% increase. That includes sectors such as airport construction, bridges, public transit, rail, and ports.

Both Dodge and Fails Management Institute (FMI) have positive outlooks for the non-building sector, which includes transportation. Dodge sees overall growth at 7% with highways and

bridges up 23% and environmental public works rising 10%. It only predicts power plants/gas/communications to fall, dropping 17%.

FMI's outlook is more modest at 7.7% overall with highways and streets at 8.6%, sewer systems at 9.1%, and water supply at 7%. In contrast to Dodge, FMI predicts power will have an increase of 6.2%.

Sector gains

Manufacturing is expected to see double-digit growth within the overall non-residential market, according to both Dodge and FMI, with Dodge predicting 16% and FMI 15.1%. Both have an overall outlook for non-residential at about 4%.

Dodge predicts as much as 17% growth in the hotels and motels sector, and 9% in stores and shopping centers. It also sees a rise in educational buildings and health care facilities, with drops in office buildings and warehouses. Other non-residential is predicted to be flat.

While FMI predicts office and commercial will fall, it anticipates growth in amusements and recreation, religious, education, health care, and public safety. ■

The American Road & Transportation Builders Association predicts the total value of overall transportation to grow to \$214 billion, a 14% increase.



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Choosing the Right Fit

Smart Construction solutions can help you increase productivity, track it and make faster critical decisions



Jason Anetsberger,
Director of
Customer Solutions,
Komatsu

Technology use in the construction industry has grown rapidly during the past decade and includes both on-machine technology as well as software designed for each stage of project management. Choosing the right technology to move your business forward comes with many questions, and the correct answers depend on what technology your company has already adopted.

Komatsu has long been a technology proponent. It was among the first manufacturers to incorporate telematics into its machinery, with its Komtrax remote monitoring system that enabled customers to monitor fuel usage, idle time, location and more. During the past two decades, Komtrax has expanded to include additional comprehensive information that helps with proactive fleet management, to help reduce downtime as well as owning and operating costs.

"For our customers, Komtrax was a great introductory option down the technology path, and it continues to be a great feature," said Jason Anetsberger, Director of Customer Solutions, Komatsu. "On our new machines, it's easily accessible through our My Komatsu platform and lets you monitor any piece of equipment."

Anetsberger continued, "Now, the question is: what's the next step that is right for you in this technological journey? Fortunately, we have many Smart Construction solutions depending

on where you are at the moment. We offer solutions that can support a small operation that is currently not using any technology, as well as solutions for large multinationals that have fully embraced machine control and project management systems."

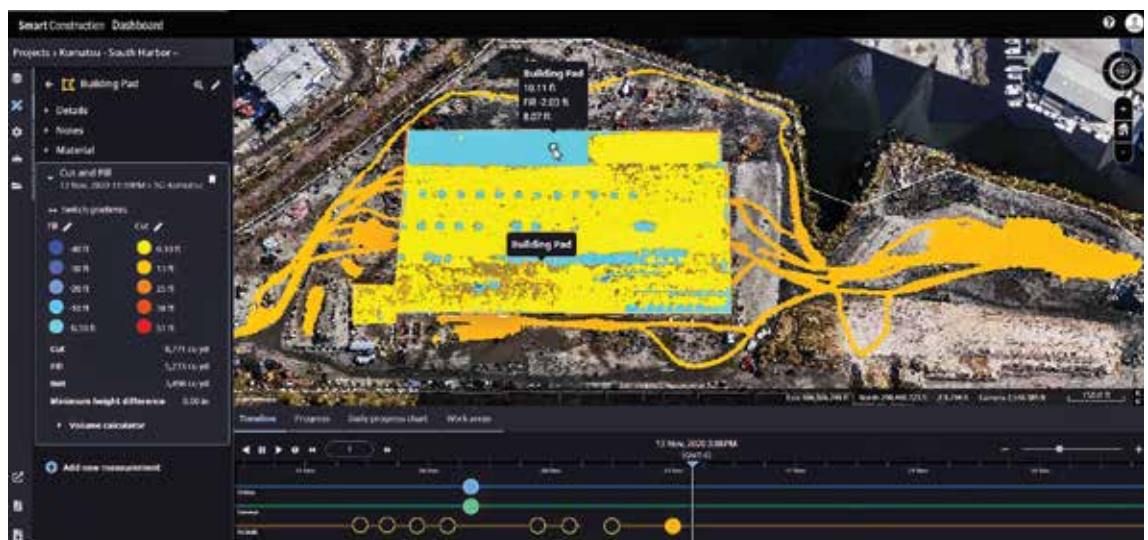
Anetsberger provided some helpful tips for how to determine which Smart Construction solutions could be beneficial and when the right time to add them is. All of the solutions can be accessed and viewed through your My Komatsu account.

No solutions? IMC is a good introduction

If you are not using any of Komatsu's Smart Construction solutions, Intelligent Machine Control (IMC) dozers and excavators may be a good starting point, according to Anetsberger. When Komatsu introduced its first IMC dozer more than a decade ago, it was the original Smart Construction solution. Several new models and next generation machines have been added that feature fully factory-integrated GPS machine control, which helps increase productivity and efficiency by reducing surveying and staking costs and eliminating the masts and cables of traditional aftermarket GPS add-on systems.

With seven sizes of IMC dozers, ranging from the 105-horsepower D39i-24 to the 354-horsepower D155AXi-8, there is a fit for

If you already have IMC equipment in your fleet, the next step may be to add solutions that help you better track and manage progress. Smart Construction Dashboard allows remote visualization of job site terrain progress with the aim to have a digital twin of the job site material movements.





Intelligent Machine Control (IMC) dozers can help increase productivity. For those looking for an introduction to Smart Construction, IMC equipment may be the best fit.

practically every construction site application. The IMC 2.0 dozers have advanced features such as proactive dozing that enables operators to cut/strip automatically from existing terrain as well as lift layer control, tilt steering control, and quick surface creation.

On the excavator side, there are IMC machines ranging from the 20-ton-class PC210LCi-11 to the 50-ton-class PC490LCi-11. All have semi-automatic functions that go beyond simple guidance to semi-automatically limit over-excavation and trace a target surface. Once target elevation is reached, even if the operator tries to move the joystick to lower the boom, the excavator doesn't allow it, reducing wasted time and the need for expensive fill material.

IMC 2.0 excavators feature bucket angle hold control, which automatically holds the bucket angle to the design surface during arm operation. It's less fatiguing for operators, so they can be more productive, and it produces a better finish-grade surface. Plus, auto tilt bucket control assists operators by aligning the bucket parallel with the slope, so that finish grading can be accomplished without needing to align the machine with the target surface. Testing has shown that these latest generation models help improve accuracy by up to 33% and efficiency

as much as 63% compared to conventional excavation and grading methods.

"We have more than a decade of proven success with IMC machines saving time and material costs, to help increase profitability," said Anetsberger. "IMC was our first Smart Construction solution, and we have built a suite of additional beneficial solutions, including our Smart Construction Retrofit for standard excavators. This technology is a good entry-level system for someone who may be considering GPS but is not ready to fully commit to integrated machine control."

Smart Construction Retrofit is an add-on, indicate-only system that offers many of the benefits of IMC. It's three-dimensional, so operators get the advantage of seeing where they are on a project, as well as their relation to target elevation. They can set audio alerts that change tone the closer they get to finish grade. That, along with the visual representation on the app, helps keep operators from digging too deep, saves time and lowers costs.

From site to office and vice versa

Additional Smart Construction solutions can help customers better manage their projects from pre-bid to final close out.

Continued...

'Easy to implement, user-friendly'

... continued

"Knowing which one to use is a matter of assessing your goals," Anetsberger stated. "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 to be able to do it remotely?"

A couple of solutions Anetsberger suggested for those who now have IMC machines are Smart Construction Remote and Smart Construction Dashboard. Remote allows users to remotely send design files to targeted machines in the field and remotely support operators without driving to the job site, saving time and fuel expenses. With remote access, contractors can help their operators troubleshoot issues in real time by viewing the same visuals as in the machine.

To help users with tracking cut/fill progress, Dashboard allows remote visualization of job site terrain progress, with the aim to have a digital twin of the job site material movements. It combines data from multiple sources into one comprehensive picture and provides a 3D graphic visualization of all design, drone and machine data to measure cuts/fills, quantities and productivity. Users can confirm pre-bid and topographical map data, track site progress in near real time, document job site conditions as evidence for change orders, and quickly and easily measure quantities.

"Dashboard and Remote are complementing solutions to IMC," said Anetsberger. "The visual representation and the ability to track job site progress more easily from practically anywhere, can lead to faster decisions and potentially better bottom-line outcomes. They are easy to implement, user-friendly,

and the cost savings have been significant for companies using them."

Further building your solutions portfolio

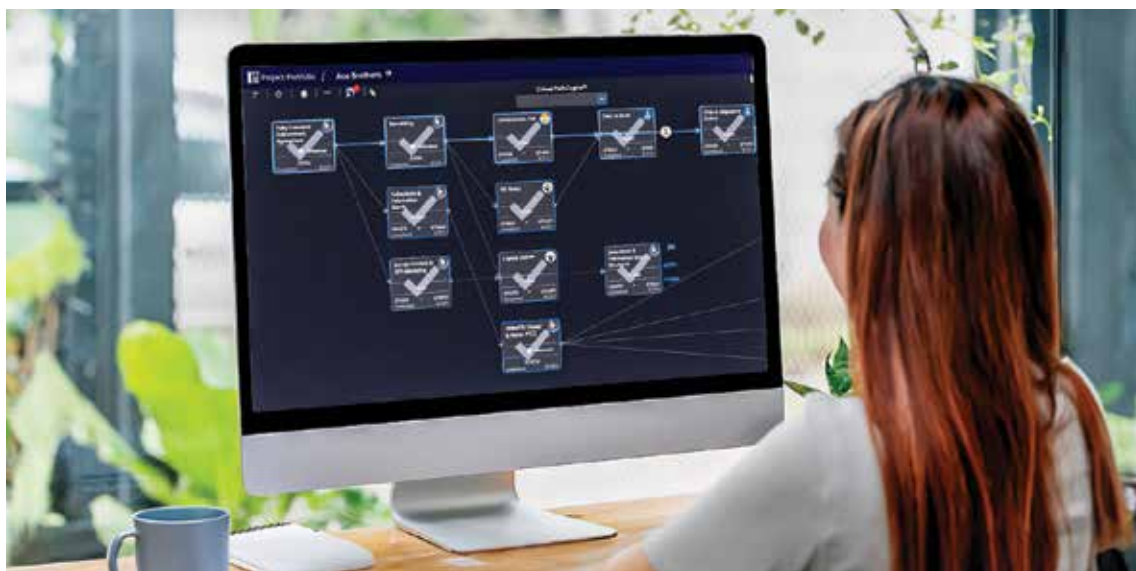
As any project manager knows, job sites often evolve and plans change, which makes staying on schedule and on budget a challenge. Smart Construction Office is a project scheduling and management solution that serves as a central hub for all your jobs and can help replace manual production and cost tracking with streamlined daily automation. It delivers timely updates, insights and auto-forecasting schedules, and cost estimates throughout a project's life cycle.

"Office is a project management tool that gives you reliable forecasting and insight into budget versus actual costs," explained Anetsberger. "Another consideration is Smart Construction Field, a mobile app that uses data to track spending and allows contractors to quickly view current conditions and progress. You can break it down by labor, equipment, materials, receipts, timecards, and much more. Both Office and Field are brand-agnostic, so they can be a great solution for contractors with mixed fleets."

Additional Smart Construction solutions include Design, Drone and Fleet, which can help replace paper plans with digital files, accurately map job sites, and collect data for fleet optimization.

"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." ■

Cost tracking is essential. Smart Construction Office is a project scheduling and management solution that serves as a central hub for all your jobs. It can help replace manual production and cost tracking with streamlined daily automation that delivers timely updates, insights and auto-forecasting schedules, and cost estimates throughout a project's life cycle.





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New GD955-7 is designed to build and maintain haul roads for truck fleets of 100 tons and up

Solid and smooth haul roads are essential for maximum productivity. To build and maintain them for fleets of 100 tons and up, Komatsu's new GD955-7 motor grader offers operators the control and precision necessary.

The GD955-7 stands out with its ample horsepower and powerful blade downforce pressure for efficient grading performance. With faster working travel speeds compared to the previous model, Komatsu engineered the GD955-7 to increase grading efficiency while helping reduce maintenance requirements and total cost of ownership.

"With significant increases in operating weight, blade downforce pressure, and working travel speeds, this new size class motor grader will be a smart choice for increased efficiency on our customer's mine sites," said Joseph Sollitt, Director of Mining Support Equipment at Komatsu.

Tight turning radius

Despite its large size, the GD955-7 offers excellent maneuverability. It can execute

tight U-turns on a standard 100-ton class haul road without the need to fully cut the wheel or course correct. The long wheelbase and large, 27-degree articulation angle allow a tight turning radius and provide maneuverability for narrow haul road applications in confined spaces and around obstacles.

The newly adopted, long-life circle bearing allows for smooth and precise rotation of the moldboard while eliminating the need for circle play adjustments or replacing wear plates. Coupled with a standard auto-lubrication system, the GD955-7 is engineered to help reduce planned and unplanned maintenance downtime while helping to extend life to overhaul.

"The GD955-7 comes standard with an 18-foot moldboard, and there is a 20-foot optional moldboard available," said Sollitt. "We encourage anyone who has a larger fleet of trucks and wants to build and maintain their haul roads to contact their Komatsu distributor for additional information." ■

Komatsu's new GD955-7 motor grader offers operators the control and precision needed to build and maintain haul roads for truck fleets of 100 tons and up.



Joseph Sollitt,
Director of Mining
Support Equipment,
Komatsu

Quick Specs

Model
GD955-7

Operating Weight
104,323 lbs.

Horsepower
426 hp

Moldboard
18 ft. standard
20 ft. optional



Meaningful conversations, ability to operate equipment stand out at Komatsu's Quarry Days held at Arizona Proving Grounds

One of the highlights of Komatsu's Quarry Days is the ability to get in the operator's seat and put equipment to the test.

"I think it's a very good thing for Komatsu to do for operators and businesses that are looking for equipment," said Brad Disrud, an operator with North American Coal at its

Coyote Creek Mine in Zap, N.D. "I currently run an older PC2000 that we are looking to replace down the road, and the ability to get in the new one and make a comparison is valuable. It's quieter, and the productivity is definitely there. The electronic over hydraulic controls is nice."

The 1,046-horsepower PC2000-11 surface mining excavator was one of more than a dozen Komatsu machines that attendees could operate or see in action at Komatsu's Quarry Days, an event that took place at Komatsu's Arizona Proving Grounds. Among the machines was Komatsu's new GD955-7 motor grader with a standard 18-foot blade.

"You can definitely tell the GD955 is a game-changer," said Mauricio Vallejos with Titan America. "The palm steering is something completely different. In the long run, I think it's going to benefit a lot of operators because it will cut down fatigue. Your hands are always on the controls. I think it has several uses — padding, the finishing touches, making sure our dragline shoes sit on the ground and don't bend, and road maintenance for the haul roads our HD785s run on. It could allow us to do that in fewer passes."

Popular PC900LC-11

In addition to the PC2000-11 and GD955-7, attendees were able to operate several other Komatsu machines, including a PC900LC-11 excavator; an HB365LC-3 hybrid excavator; WA900-8 and WA475-10 wheel loaders; a D475A-8 surface mining dozer; a D71PXi-24 Intelligent Machine Control (IMC) dozer; and HM400-5, HD785-8 and HD1500-8EO trucks. A ZT44 drill and an RF-5 reclaim feeder were on display as well. Attendees could also talk with product experts from Montabert and Tramac about breakers and Hensley Industries about its Kprime tooth system. Montabert, Tramac and Hensley are all Komatsu-owned companies.

"We have solutions at Quarry Days that represent every application within a customer's job site — from stripping, to loading and haulage, to drilling, blasting, breaking, processing, and dozing, it's all here,"



(L-R) Joe Osborn and Wayne Shears with N.A. Degerstrom check out all the equipment available at Quarry Days

(L-R) Modern Machinery's Chuck Gams explores Quarry Days with GK Construction Inc.'s Mike Grandalen and Rick Grandalen as well as Westmoreland Mining LLC's Jon Wells.





▶ VIDEO

Attendees test out Komatsu excavators at Quarry Days, including a PC2000-11, a PC900LC-11, and an HB365LC-3 hybrid model. Product Marketing Manager Casey Zbinden (right) answers a question about the PC900LC-11.

said Joseph Sollitt, Director of Mining Support Equipment, Komatsu. "It gives customers a chance to put the machinery to the test and see firsthand what it can do in a real-world setting. The feedback has been overwhelmingly positive. These types of events are beneficial for the customer, as well as for us to learn more about them and what we can do to improve their operations."

James Van Remmen with Interstate Earthworks specifically wanted to operate the recently introduced 204,148-pound, 543-horsepower PC900LC-11 excavator that's designed for heavy construction, demolition, material handling, deep digs, large mass excavation and quarry/mining applications.

"We wanted to compare it to a competitive brand of a similar size," said Van Remmen. "The speed was very fast for a machine that big."

With more bucket and lifting capacity, the PC900LC-11 increases productivity up to 40% compared to its predecessor, the PC800LC-8.

"The PC900LC-11 is ideal for those working in applications that involve moving large amounts of material efficiently," said Casey Zbinden, Product Marketing Manager, Komatsu. "It's been a popular attraction at Quarry Days because customers see so many potential uses for it. With an optional counterweight removal system, it's more easily transported."

Smart solutions

In addition to equipment, Komatsu representatives from its Smart Quarry solutions and My Komatsu teams were available to show customers the advantages of incorporating technology into their operations.

"Smart Quarry is designed to improve and optimize production, which includes site studies and our new Smart Quarry Site," said Craig McGinnis, Senior Business Solutions Manager, Komatsu. "What's great about Site is that it's brand-agnostic, so it can be used with Komatsu and non-Komatsu equipment. It's plugged into the machine and transmits actionable data that can be used to improve practices and increase productivity."



Watch the video

Continued...

'The savings are significant'

... continued



Watch the video

McGinnis continued, "For example, we did a case study and identified that a quarry was only putting about 89 tons on a 100-ton truck during loading. We determined that if they added about six more tons that it would equate to more than 13,000 tons per month in added production with the same fuel burn and time. The savings are significant."

Great conversations

The ability to network with other contractors doing similar work is another advantage

of events like Quarry Days, according to Moroni Wardell, who along with his three brothers owns and operates Wardell Brothers Construction in Morgan, Utah. The full-service construction company manages two gravel pits and currently runs several Komatsu loaders and excavators.

"Sharing information is very valuable because it gives us insight into how others are using the equipment and the production they get from it," said Wardell. "All new iron looks pretty and runs really well — but talk to a customer that has 10,000 or 12,000 hours, and you will see where the results really are. We have been able to network with a lot of other customers that stand behind Komatsu equipment."

Chad Mikulec, Regional Operations Manager with Permian Basin Materials, said the ability to talk with Komatsu personnel was another positive aspect of Quarry Days.

"The attentiveness of the people out here, wanting to talk to us and hear what we have to say and be actively engaged is very meaningful," said Mikulec. "It makes me feel good as an end user that they listen to us. Our opinion matters, and what we say is taken into consideration for new products." ■

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



▶ VIDEO

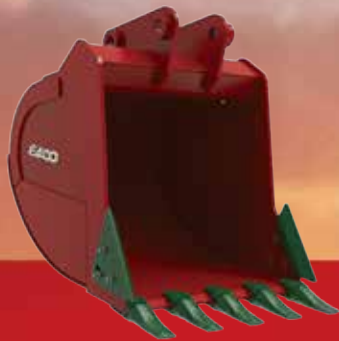
Komatsu personnel provide information about technology such as Smart Quarry Site, which is designed to help increase efficiency and production.

At Komatsu's Quarry Days, attendees move material with a Komatsu D71PXi-24 Intelligent Machine Control (IMC) dozer and a Komatsu D475A-8 surface mining dozer.



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Smart Quarry Study provides insightful information designed to help operations optimize productivity with the proper equipment

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- Knowledgeable support when job planning
- Valuable insight tailored for your operation
- Confidence that your fleet is right for the job

"Ideally, Smart Quarry Study is a boots-on-ground meeting with customers at their location or locations to get a complete understanding of what they want to achieve," said Craig McGinnis, Senior Business Solutions Manager for Komatsu, noting that remote study analysis is a possibility. "Maybe they are thinking about replacing equipment, want to increase production, or expand their pit. Through a Smart Quarry Study, we look at their operations and make recommendations designed to help them reach their goals."

Unique, local factors

McGinnis added that Smart Quarry Study can help operations better understand how equipment and other factors affect performance, to assist in

the making of cost-effective purchasing decisions. He also emphasized that it's brand agnostic.

"By comparing different class sizes, we can give you information related to more efficient costs per hour, per ton and per yard," McGinnis explained. "Everything is based on each operation's unique factors, and the resulting recommendations are tailored to them, no matter what equipment they use. We crunch the numbers and come up with a total cost of ownership. We really get down to a unit cost or dollar per ton of material moved and ways to improve those."

McGinnis is part of Komatsu's Smart Quarry team. Each member has extensive knowledge in quarry operations.

"The best way to get started is to contact your Komatsu distributor, who can help get a Smart Quarry Study set up," said McGinnis. "From there, we reach out to the customer and gather some information about what they want to accomplish, then schedule the study at a convenient time. Once we have all the data put together, we present it to the customer to help them make more informed decisions."

"If you want to monitor your operation in more detail with continual tracking tools, we also offer Smart Quarry Site," McGinnis continued. "This tool, which is also brand agnostic, can help you understand if you're getting the most from your equipment and operators, to help improve production and performance, as changes occur." ■



Craig McGinnis,
Senior Business
Solutions Manager,
Komatsu

To learn more about Smart Quarry solutions, visit <https://www.komatsu.com/en/technology/smart-quarry/>

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Videos



Komatsu acquires battery company in drive toward electric equipment and reduction of carbon emissions

As construction and mining equipment industries transition to a more electric future, battery technology has become increasingly important. To support this transition, Komatsu recently acquired American Battery Solutions Inc. (ABS), a battery manufacturer headquartered in Detroit, Mich.

The acquisition will enable Komatsu to develop and produce its own battery-powered construction and mining equipment by integrating ABS' battery technology with Komatsu's knowledge and network. The first equipment produced with ABS' battery technology will be used to power mining equipment in North and South America, where there is increasing demand for electrification. In the future, Komatsu will aim to expand the use of batteries in construction equipment and to establish a global supply system.

Komatsu will be positioned to accelerate the development of battery-powered electric vehicles by utilizing ABS' battery-related technology to further contribute to the electrification of construction and mining equipment in support of pursuing a decarbonized society. Along with other initiatives Komatsu is pursuing with its partners, these efforts will contribute to Komatsu's management target of a 50% reduction of CO2 emissions from the

use of its products by 2030 (compared to 2010 levels), as well as the company's challenge target of achieving carbon neutrality by 2050.

Leading provider

ABS develops and manufactures a wide variety of heavy-duty and industrial battery packs, using lithium-ion batteries for commercial vehicles, transit buses, and on- and off-road vehicles. The company provides both standard and custom battery systems engineered to be optimized to each customer's needs. ABS' technology, combined with advanced product development knowledge and expertise, enables the company to develop and manufacture battery packs designed to deliver superior performance and product life, as well as promote enhanced safety.

ABS will operate as a stand-alone business entity within Komatsu and will continue its growth plans by executing on its current and prospective customer programs in the commercial vehicle segments. The mining and construction opportunities provided through Komatsu will enable ABS to position itself as one of the world's leading providers of battery systems in both on-highway and off-highway markets. Post acquisition, Komatsu will

continue to support ABS' battery

business to further develop the electrification business. ■

The acquisition of ABS will help contribute to Komatsu's management target of a 50% reduction of CO2 emissions from the use of its products by 2030 (compared to 2010 levels), as well as the company's challenge target of achieving carbon neutrality by 2050.



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Sold and Supported by Modern Machinery

Iron Triangle Logging LLC increases production, efficiency with TimberPro tracked feller bunchers

Russ Young, the owner of John Day, Oregon-based Iron Triangle Logging LLC, describes central Oregon as a “wood basket” with an abundance of trees available for harvesting. That makes it an ideal place for generations of family loggers, according to Young.

“Iron Triangle started in 1983, and I took over in 1997,” said Young. “I think once you’re raised in this industry, it’s always part of you. There’s a real sense of accomplishment where you can see the end result. Working in this rural area, you also work some of the same places again over the course of 20, 30 years. Our focus is perpetual landscape management so that those areas thrive and grow and continue to remain productive for the future. We have to be proficient in removing smaller trees and do it efficiently.”

Managing the woods and being proficient involves carefully planning each job to cut, process and ship logs from the woods to area mills. Iron Triangle has long been a proponent of using TimberPro (a Komatsu-owned company) tracked feller bunchers with saw and dangle-head processor attachments. It currently uses TL735D, TL755D and TL775D models that feature leveling cabs with large windows for excellent all-around visibility.

Leveling cab helps increase productivity

Iron Triangle uses each machine for particular jobs based on the timber size. It typically deals with trees up to 21 inches in diameter. For larger wood, it uses the 96,200-pound TL775D. Iron Triangle recently utilized it to process timber on the landing with a Komatsu harvesting head, producing 12 to 14 loads per day.

“The 775 is the first processing machine I have used with a leveling cab and counterweight, and it makes jobs a lot easier because you are level on all terrains,” said operator Toby Winegar, who has been with Iron Triangle for about 20 years and comes from a family of loggers. “That ensures you are always in a good operating position. It has good hydraulic power to pull the wood off the ground, feed it through the processor at a high rate of speed, and saw it quickly.

It’s the most powerful machine I have run. It allows you to do your job more efficiently.”

As Winegar was processing, operator Jed Smith was cutting with a 75,940-pound TL755D equipped with a Quadco (a Komatsu-owned company) rotary saw. Once the timber was cut, Smith carried and piled the timber with the TL755D.

“I’m really impressed with it, especially the lift power,” said Smith, who has been with Iron Triangle for about six years. “Being able to swing large trees up a hill and onto your pile is a big plus. For the most part, I’m dealing with approximately 7-inch to 21-inch trees, with the occasional one bigger than that, and the 755 has no trouble handling any of it. It’s well-built, has plenty of power, and the leveling system puts you in a good operating position, and I think that increases productivity.”

Operator Bob McConnell is approaching 30 years of running equipment for Iron Triangle. He recently started operating one of the company’s 65,100-pound TL735D feller bunchers with a Komatsu harvesting head, utilizing it to cut timber on steep ground near Magone Lake in the Malheur National Forest.

Continued...



Operator Toby Winegar processes logs with a TimberPro TL775D tracked feller buncher on a job site near John Day, Ore. “It’s the most powerful machine I have run,” commented Winegar. “It allows you to do your job more efficiently.”



'Quiet, smooth and fast'

... continued

"We need machines that run 10 to 12 hours a day cutting, climbing and doing anything else we need on all terrains," said McConnell. "The TimberPros give us that. The speed of the machines is good, and you can fine tune them for your needs. The technology really stands out, because you can program it for the wood species — pine, fir, lodgepole and tamarack — and I can set the wood and the length, and the machine will cut it to that size. That makes it very productive, and we're getting five to seven truckloads a day — 300 to 400 trees — in good timber."

McConnell added, "Being in a machine as many hours as we operators are, comfort is important. The TimberPros are built for operators. They are quiet, smooth and fast, and the self-leveling cab keeps you from having to strain to see what you are cutting or processing."

Progressed with Modern, Komatsu

Komatsu purchased TimberPro about five years ago, adding it to its lineup of Komatsu forestry machines that include forwarders, harvesters, log loaders and attachments, all of which Iron Triangle runs in its operations. Modern Machinery carries all products throughout Washington, Montana, Oregon and Idaho, and works closely with Iron Triangle to meet its equipment and service needs.

"We got into the cut-to-length logging about 30 years ago with a company that was purchased by Modern, and we've progressed with them and Komatsu since," said Young. "We started using TimberPro four years ago and have been very pleased with the results. Komatsu was forward-thinking in its acquisition of TimberPro because Komatsu saw TimberPro's quality products as game-changers. One of the aspects I really like about TimberPro is that it's American-made, so we have the ability to talk directly with the manufacturer, if need be." ■

**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.*



Operator Jed Smith cuts and piles trees with a TimberPro TL755D. "I'm really impressed with it, especially the lift power," said Smith.

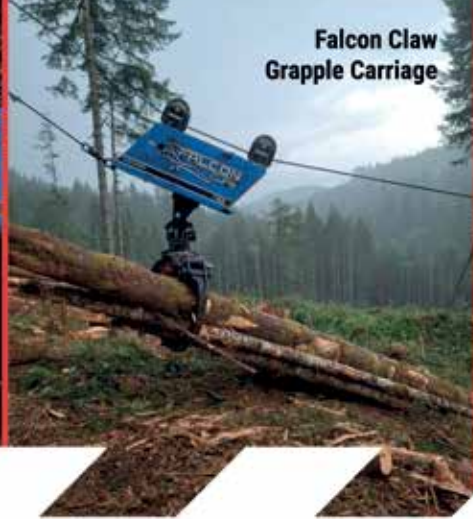


Operator Bob McConnell cuts and processes timber on a hillside with a TimberPro TL735D tracked feller buncher. "The self-leveling cab keeps you from having to strain to see what you are cutting or processing," noted McConnell.

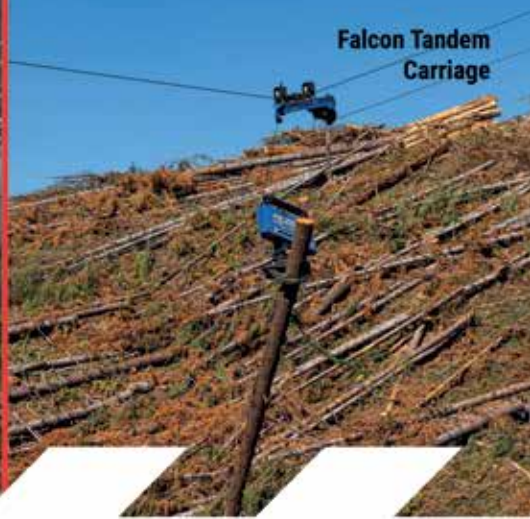




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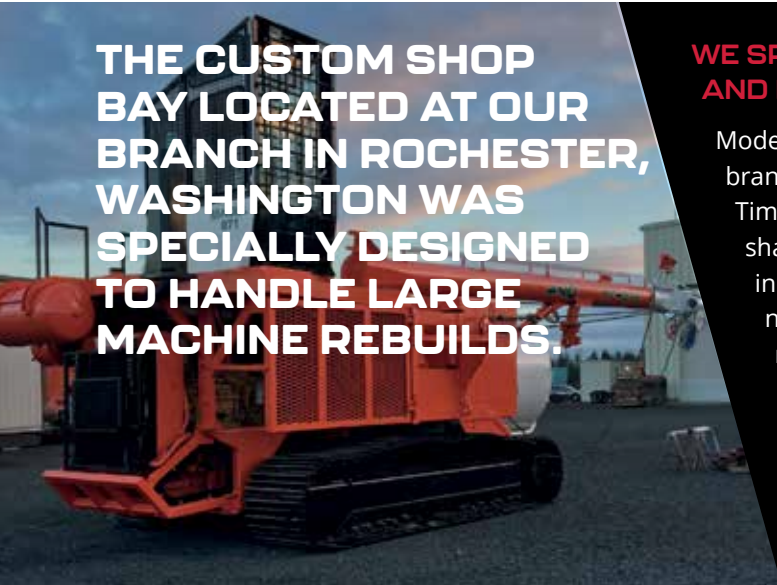


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KOMATSU D155AX-8	SIGMA BLADE, MS RIPPER	100359	2019	2,844	\$486,000
KOMATSU D155AXI-8	SU BLADE, MS RIPPER, UHF	100448	2021	2,358	POR
KOMATSU D71PX-24	PAT BLADE, MS RIPPER	70327	2021	986	POR
KOMATSU D65PXI-18	PAT BLADE, UHF SYSTEM, NEW UC	90339	2016	7,014	\$169,000
KOMATSU D65PXI-18	PAT BLADE, UHF SYSTEM, NEW ENG, GOOD UC	90273	2016	8,918	\$159,000
KOMATSU D65PX-18	S-BLADE	92587	2020	1,027	\$299,000
KOMATSU D61PX-24	PAT BLADE, MS RIPPER	45272	2021	2,130	POR
KOMATSU D51PXI-24	PAT BLADE, 915 SYSTEM	B20850	2020	1,968	\$247,000
KOMATSU D39PX-24	PAT BLADE, MS RIPPER	100179	2021	1,135	\$155,000
Wheel Loaders 					
KOMATSU WA500-8	7.5 YD SPADENOSE BUCKET, AJSS, AUTO LUBE	90642	2022	1,837	POR
KOMATSU WA500-8	8 YD BUCKET, AJSS	A96628	2018	7,271	\$265,000
KOMATSU WA500-7	8 YD BUCKET, STICKSTEER & STEERING WHEEL	10313	2014	10,524	\$150,000
KOMATSU WA500-7	GP BUCKET	10055	2012	13,390	POR
KOMATSU WA480-8	7.2 YD BUCKET, YARD LOADER	A48237	2022	1,620	POR
KOMATSU WA475-10	5.8 YD BUCKET, AJSS, 775/65 TIRES	A40136	2022	3,061	POR
KOMATSU WA380-8	QC	DZCQ0037	2023	1,531	POR
KOMATSU WA270-8	QC	A28834	2020	1,193	\$197,500
Compaction 					
DYNAPAC CA5000D	84" SINGLE DRUM, A/C	10000174VNA033218	2022	921	\$165,000
DYNAPAC CA3500PD	84" SINGLE DRUM, PADFOOT	10000168AJA023630	2019	531	\$129,000
DYNAPAC CA2500D	84" SINGLE DRUM, A/C	10000167HPA035960	2023	592	\$148,000
DYNAPAC CA2500PD	84" SINGLE DRUM, PADFOOT, A/C	10000167CNA033892	2022	282	\$160,000
DYNAPAC CA1500D	66" SINGLE DRUM	10000160CPA035261	2023	338	\$115,000
DYNAPAC CC6200VI	84" ASPHALT ROLLER	10000387HJA0213980	2018	266	\$168,000
DYNAPAC CC5200VI	77" ASPHALT ROLLER	10000386JJA023209	2019	173	\$159,000
DYNAPAC CC1300VI	54" ASPHALT ROLLER	10000470TNA034196	2022	140	POR
DYNAPAC CC1100VI	42" ASPHALT ROLLER	10000444ANA034439	2023	125	\$48,000
Excavators / Backhoes 					
KOMATSU PC800LC-8E0	11' ARM, COUNTERWEIGHT REMOVAL SYSTEM	65380	2019	4,345	\$695,000
KOMATSU PC800LC-8E0	11' ARM, COUNTERWEIGHT REMOVAL SYSTEM	65067	2012	8,885	\$399,000
KOMATSU PC650LC-11	11' ARM, QC, COUNTERWEIGHT REMOVAL SYSTEM	80205	2022	1,906	POR
KOMATSU PC490LCI-11	13' ARM, UHF SYSTEM	A45436	2023	1,135	POR
KOMATSU PC490LC-11	13' ARM, QC	A42505	2020	4,687	\$320,000
KOMATSU PC390LC-11	10' ARM, QC, THUMB, +1 HYDRAULICS	A30676	2021	2,609	POR
KOMATSU PC360LCI-11	13' ARM, QC	A38671	2022	2,161	POR
KOMATSU PC360LC-11	10' ARM, QC, +1 HYDRAULICS	A38766	2022	2,194	POR
KOMATSU PC290LCI-11	11' 6" ARM, QC	A29168	2022	926	POR
KOMATSU PC290LC-11	11' ARM, QC, THUMB, FOPS, CAB GUARD	K73150	2019	987	\$299,000
KOMATSU PC240LC-11	10' ARM, QC, +1 HYDRAULICS	95397	2019	4,684	\$165,000
KOMATSU PC238USLC-11	9' 6" ARM, QC, THUMB, +1 HYDRAULICS, AUTO LUBE	6908	2020	1,532	\$246,000
KOMATSU PC210LCI-10	9' ARM, QC, +1 HYDRAULICS	A10029	2022	1,133	POR
KOMATSU PC210LC-11	9' 7" ARM, QC, THUMB, +1 HYDRAULICS	C81530	2022	1,060	POR
KOMATSU PC170LC-11	8' 7" ARM, QC, THUMB, +1 HYDRAULICS	36380	2022	118	POR
KOMATSU PC138USLC-11	8' ARM, QC, THUMB, +1 HYDRAULICS	59768	2022	910	\$215,000
KOMATSU PC88MR-11	QC, 24, 48" BUCKETS, PRO THUMB, ROADLINERS	C40027	2023	228	\$119,000
BOBCAT E42	QC, 18" BUCKET, THUMB, A-HYDRAULICS	B4GM17885	2023	143	\$77,500
BOBCAT E60 R-2	QC, 24" BUCKET, THUMB, A-HYDRAULICS, 2 SPEED	B4GR14839	2023	85	\$93,500

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Motor Graders 					
KOMATSU GD655-6	14' BLADE, MS RIPPER	60866	2022	1,246	POR
KOMATSU GD655-7	14' BLADE, MS RIPPER	65027	2019	1,213	\$299,000

Manufacturer/Model	Description	Serial No.	Year	Hours	Price
Off-Road Trucks 					
KOMATSU HM400-5	ARTICULATED TRUCK, TAILGATE	11260	2019	3,875	\$550,000
KOMATSU HM400-5	ARTICULATED TRUCK, TAILGATE	11664	2020	2,530	POR
KOMATSU HM400-5	ARTICULATED TRUCK, TAILGATE	12459	2022	2,533	POR
KOMATSU HM400-5	ARTICULATED TRUCK, TAILGATE	12435	2022	2,656	POR
KOMATSU HM400-5	ARTICULATED TRUCK, TAILGATE	12502	2022	1,512	POR
KOMATSU HM300-5	ARTICULATED TRUCK, TAILGATE	11508	2022	1,862	POR
KOMATSU HM300-5	ARTICULATED TRUCK, TAILGATE	11517	2022	1,162	POR
KOMATSU HM300-5	ARTICULATED TRUCK, TAILGATE	11584	2023	1,015	POR

Manufacturer/Model	Description	Serial No.	Year	Hours	Price
Aggregate Equipment					
KPI-JCI T400	FABTEC REAR DISCHARGE JAW PLANT	PC351722	2022	670	\$927,100
KPI-JCI K300	SPOMAC REAR DISCHARGE JAW PLANT	C211587	2021	1,743	\$565,350
KPI-JCI K300/6203	JCI KODIAK CLOSE CIRCUIT PLANT	P232200	2023	183	\$1,311,150
KPI-JCI FT2650	PIONEER TRACK MOUNT JAW	419966	2022	1,127	\$885,375
KPI-JCI FT2650	PIONEER TRACK MOUNT JAW	420321	2023	993	\$941,325
KPI-JCI J20	RANGER 2034 TRACK MOUNT JAW	225130	2023	20	\$558,000
KPI-JCI J20CC	RANGER 2034 TRACK MOUNT JAW	225126	2022	1,150	\$518,650
KPI-JCI GT125	PIONEER TRACK MOUNT JAW	420367	2023	164	\$646,350
KPI-JCI GT125	PIONEER TRACK MOUNT JAW	419657	2022	972	\$415,000
KPI-JCI FT4250CC	TRACK MOUNTED HORIZONTAL IMPACT CRUSHER	420805	2024	122	\$1,175,250
KPI-JCI FT4250CC	TRACK MOUNTED HORIZONTAL IMPACT CRUSHER	419970	2022	728	\$1,046,175
KPI-JCI FT440	TRACK MOUNTED HORIZONTAL IMPACT CRUSHER	417939	2018	2,000	POR
KPI-JCI 6203-32	SPOMAC WASH PLANT WITH SWITCH GEAR	S235497	2023	N/A	\$500,000
AMS GT165	DF SCREEN PLANT, 3 PRODUCTS	214978	2021	600	\$322,100
AMS GT205S	AMS SCREEN PLANT, 2 DECK, MULTI FREQUENCY	225140	2022	802	\$439,100
KPI-JCI 36" X 150'	SUPER STACKING CONVEYOR	420695	2024	2	\$382,900
KPI 36" X 100'	KPI END FOLD RADIAL STACKER		2024	N/A	\$152,400
VALE 36" X 100'	VALE RADIAL STACKER SELF CONTAINED, DIESEL	220784	2022	759	\$195,300
VALE 36" X 80'	VALE RADIAL STACKER SELF CONTAINED, DIESEL	210701	2021	1,130	\$93,700
SPOMAC 36" X 60'	LOW PRO EXTREME	M22CON1516025	2022	N/A	\$42,763
SPOMAC 36" X 50'	LOW PRO EXTREME	MCON221515911	2022	N/A	\$39,868
KPI-JCI GT4280	42" X 80" RANGER TRACK MOUNTED CONVEYOR	235502	2023	147	POR
KPI-JCI GT3260R	32" X 60" RANGER TRACK RADIAL MOUNTED STACKER	235507	2023	12	\$145,600
TRANSCO 32BF	TRANSCO 36" PORTABLE BELT FEEDER, SKID MOUNT	1223370	2021	N/A	\$115,000
SPOMAC 45YD	SPOMAC LOAD OUT BUNKER	M1308146	2021	N/A	POR
SPOMAC 45YD	SPOMAC LOAD OUT BUNKER	S1571526	2022	N/A	POR

Manufacturer/Model	Description	Serial No.	Year	Hours	Price
Forestry Equipment					
DEERE 2954D	10000 LOGMAX	1FF2954DVE0290211	2014	9,216	\$230,000
KOMATSU WA500-8	LOGFORKS, 3RD VALVE< AJSS, BRAKE COOLING	A97589	2022	1,340	\$535,000
KOMATSU XT460L-3	BUNCHER 24/360 QUADCO HOTSAW	A5138	2017	8,062	\$221,000
TIMBERPRO TL745C	BUNCHER 2900 QUADCO INTERMITTENT SAW	TL745C0555120417	2017	6,375	POR

Manufacturer/Model	Description	Serial No.	Year	Hours	Price
Miscellaneous					
ATLAS COPCO ROC T45-11	ATLAS COPCO DRILL, 3.5"- 5" HOLE SIZE	G22SED0288	2022	770	\$675,000
CARLSON CP100II	PAVER DELUXE PACKAGE, 2 MAN	659CC1S	2021	997	\$160,000
ROADTEC RX600E	MILLING MACHINE, 3 LEG	4172	2023	11	POR
ROADTEC SB3000	SHUTTLE BUG, WITH STD DUMP HOPPER	4103	2022	326	POR

**re available for some Models.
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