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UPDATE

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BROWN EXCAVATION & UTILITIES

San Antonio contractor grows its in-house site-work capabilities with new concrete division



President
Bridgett Brown
and Vice
President Robert
Brown

KOMATSU

A MESSAGE FROM THE VICE PRESIDENT



Bruce Truesdale

**Komatsu
machines
offer greater
efficiency
and lower
operating costs**



Dear Valued Customer:

It's been said before, but it bears repeating: Komatsu is the leader in innovative equipment designed to increase efficiency and lower your operating costs. In this issue of your WPI Update magazine, the spotlight turns to Komatsu's latest offering, the PC210LCi-10, the world's first *intelligent* Machine Control excavator.

In 2013, Komatsu introduced its first *intelligent* Machine Control dozer and subsequently added more models to the lineup. Now, the PC210LCi-10 joins the family. The excavator semi-automatically limits overexcavation and traces the target surface for greater accuracy and reduced material costs.

Moving material as efficiently, productively and cost-effectively as possible is every company's goal. Komatsu wants to further reduce your owning and operating costs, so it includes complimentary scheduled maintenance for the first three years or 2,000 hours on Tier 4 machines under the Komatsu CARE program.

All equipment in the *intelligent* Machine Control family is covered under the program, as is the new Tier 4 Final HM300-5 articulated truck, which is also featured in this issue. It pairs well with 30- to 60-ton excavators or 5- to 7.5-yard wheel loaders for maximum productivity in mass excavation, even in less-than-ideal conditions.

We hope with the busy construction season just around the corner that you will consider these or other machines from WPI. We have an extensive lineup of equipment to meet your needs, including moving dirt, mining, forestry, scrap or material handling, lifting or a whole host of other applications.

If there's anything we can do for you, whether it's equipment sales or rentals, parts or service, please call or stop by one of our branch locations.

Sincerely,
WAUKESHA-PEARCE INDUSTRIES, INC.



Bruce Truesdale
Vice President of CMD Operations



WAUKESHA-PEARCE INDUSTRIES, INC.

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BROWN EXCAVATION & UTILITIES

San Antonio contractor grows its in-house site-work capabilities with new concrete division

About a year ago, Brown Excavation & Utilities added a third division by offering concrete work to its list of services. Husband and wife Owners Robert and Bridgett Brown made the move in an effort to increase services to its customers.

"Adding concrete services furthered our ability to do nearly every aspect of a job in-house," said Bridgett, who is President. Robert is Vice President. "For many years, our niche has been providing turnkey site packages where we handle the excavation and utilities and sub out the concrete work. By doing it ourselves, we can better control the schedule and further ensure our work is done on time and on budget."

Brown Excavation & Utilities' concrete division provides flatwork for paving and building pads, as well as foundations. The new concrete venture complements Brown Excavation & Utilities' other divisions, which are reflected in the San Antonio-based company's name. The three divisions often work together to complete large-scale projects that fall mainly in the civil sector.

Bridgett and Robert Brown are President and Vice President, respectively, of Brown Excavation & Utilities. The San Antonio company provides turnkey site packages, with nearly all of its work done in-house.

"From an excavation and utility standpoint, we already do everything ourselves," said Robert. "That includes clearing and grubbing; mass excavation; water and sewer installation; fine grading; and building-pad construction. We prefer to provide a complete package, but we will break out services at a customer's request and do just an excavation, utility or concrete job."

First project a stepping stone

Adding concrete work also meant hiring more workers. Brown Excavation & Utilities now employs about 90 people. That equates to a nearly 900-percent growth since 2009, when the Browns founded the company with a couple backhoes, a gooseneck trailer and a handful of staff. Among them is General Superintendent Mark Talley, who started on day one.

"It was always my goal to be in business for myself," said Robert, who describes himself as a third-generation construction foreman. He worked for several companies before striking out on his own. "My last job brought us to San Antonio, and we decided to take the risk when the economy went flat a few years ago. We started on a small scale. Our clients liked the way we worked and continued to call us back. We've been growing ever since."

Small scale is relative. Brown Excavation & Utilities' first project was a \$500,000 utility installation as part of a school remodel. It entailed putting in about 500 feet of storm sewer that included a 4-foot by 5-foot double-barrel box culvert, as well as a small amount of other utilities.

"We challenged ourselves with that first project because much of the pipe had to be put in right next to an existing building, so it was tight quarters," said Robert. "Not long after that, the general contractor hired us to do

▶ VIDEO



another big job at a new school. We've continued to work with that same company since, and they have referred us to others, which has built additional ongoing relationships."

"Not many companies can claim that their first project was a big stepping stone, but that one put us on the map right away," added Bridgett. "It spurred our growth, and we've continued to add services to accommodate our customers' needs. We now have one or two concrete crews, depending on our work load, two dirt crews and up to 10 utility crews. Our work is mainly local, but we consider the entire state our territory."

Outstanding Komatsu performance

Brown Excavation & Utilities is currently working on its largest project to date, a \$5.2 million excavation and utility installation for the new theater along Alamo Parkway on the northwest side of San Antonio. With two dirt crews and two utility crews dedicated to the site, the company will move about 60,000 yards of rocky material and install more than 600 feet of 40-foot-deep sanitary sewer in a six-month period.

The company is using several pieces of Komatsu equipment to complete the project, including Tier 4 Interim dozers (a D61EX-23 and a D155AX-7), a WA380-7 wheel loader and a PC210LC-10 excavator.

"The site was very rocky," said Robert. "In addition to a rock mill, we used the D155 with a ripper to loosen, then push the material, and the D155 powered through both tasks with no problems. We knew it would be productive in those conditions because it has proven itself before, under similar conditions. In fact, all our Komatsu equipment performs well in every application."

In total, Brown Excavation & Utilities has about 40 pieces of Komatsu equipment, with excavators making up the largest percentage. Sizes range from a 6,460-pound PC27 to a 90,000-pound-plus PC400. The company also uses WA150, WA200 and WA250 wheel loaders and a D39 dozer.

"I used Komatsu equipment at previous companies I worked for, so I knew it was reliable and productive. That's why I chose Komatsu when we started and continue to add it to our



▶ VIDEO
A Brown Excavation & Utilities operator clears trees with a Komatsu PC210LC-10 excavator equipped with a thumb. "I used Komatsu equipment at previous companies I worked for, so I knew it was reliable and productive. That's why I chose Komatsu when we started and continue to add it to our fleet through purchase and rental," said Vice President Robert Brown.



▶ VIDEO
A Brown Excavation & Utilities operator loads trees and brush onto a truck with a Komatsu WA380-7 wheel loader.

fleet through purchase and rental," said Robert. "We work on large and small projects, so we need equipment in different sizes. Each and every Komatsu machine we've used has given us outstanding performance."

Added value with Komatsu, WPI

WPI handles scheduled services on the Tier 4 machines complimentary for the first three years or 2,000 hours through the Komatsu CARE program. WPI tracks the machines via KOMTRAX and sets up a time and place to do the work. Brown also keeps an eye on the machines with KOMTRAX, including using the mobile app on his smart phone.

"We see KOMTRAX and the Komatsu CARE program as added value," said Robert. "KOMTRAX is a great fleet-maintenance tool, and the Komatsu CARE program ensures our maintenance is done on time by WPI's technicians. We appreciate everything WPI does

Continued . . .

Brown Excavating is off to a strong start in 2015

... continued

(L-R) Blaze Brown, President Bridgett Brown, Raygan Brown, WPI Sales Representative Brian Childress and Vice President Robert Brown meet on a jobsite in San Antonio. "We appreciate everything WPI does for us. Brian takes care of our sales and rental needs, and WPI backs the equipment with parts and service as needed," said Vice President Robert Brown.



for us. Our Sales Rep Brian Childress takes care of our sales and rental needs, and WPI backs the equipment with parts and service as needed. Our relationship with them is another big reason why we continue to use Komatsu and BOMAG equipment."

Don't get stagnant

The Browns' intent was to do about a million dollars in business in their first year. They blew past that figure and have consistently met their annual goals for the past six years. In 2013, the company did \$20 million in work. In 2014, it was significantly higher.

"The markets look good, and we believe that a nice bump in growth is certainly possible," said Bridgett. "We already have quite a bit on the books, so we're off to a strong start. The key to maintaining that will be continuing to provide the exceptional service that our customers have come to expect."

"Meeting those expectations is what drives us and what causes customers to continue to ask us to bid their projects," Robert added. "We have a fairly long list of repeat clients, and I believe that, alone, says a lot about how we treat them and the quality of our work."

He added that Brown Excavation & Utilities may someday branch out beyond private work.

"We've started to look at public utility projects, and I'm not quite sure yet where that's going to lead. But, I've always believed in being proactive. A business that's not looking ahead tends to get stagnant, and I don't want that." ■

▶ VIDEO



A Brown Excavation & Utilities operator blades a haul road with a Komatsu GD655 motor grader.

Brown Excavation & Utilities uses a Komatsu D155AX-7 dozer to rip material on a jobsite in San Antonio. "We used the D155 with a ripper to loosen, then push the material, and the D155 powered through both tasks with no problems," said Vice President Robert Brown. "We knew it would be productive in those conditions because it has proven itself under similar conditions before."

▶ VIDEO



▶ VIDEO



To push material, Brown Excavation & Utilities uses Komatsu dozers, including a D65EX.

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INDUSTRY OUTLOOK

POSITIVE FORECAST

Outlook for construction spending is sunny, led by significant rise in single-family starts

Forecasters predict hefty growth in the construction sector during 2015 as the overall economy continues to improve. Dodge Data & Analytics (DD&A), formerly McGraw-Hill Construction, said factors such as easier financing, an investor shift to real estate and an increase in construction bond measures being passed will boost construction spending 9 percent in 2015.

Commercial, institutional, single- and multi-family housing and public-works projects will set the pace. DD&A said both commercial and single-family housing could see a 15 percent increase while the others should rise by 5 to 9 percent. Energy and electricity building fell last year and will continue to slide, according to DD&A. It predicts manufacturing-plant construction will drop by 16 percent after ramping up the past two years.

"The construction expansion should become more broad-based in 2015, with support coming from more sectors than was often the case in recent years," said DD&A Chief Economist and Vice President Robert Murray.

Housing continues to strengthen with building permits during the final months of last year at more than a six-year high. The Commerce Department said groundbreaking for single-family homes increased 4.2 percent to a seasonally adjusted 696,000 units. At the same time, multi-family starts decreased 15.4 percent year-over-year, but the combination of single- and multi-family starts topped 1 million, the highest number since 2008.

Fueled by low rates, demand

Economists and organizations that study the markets believe single-family housing will continue to rise. A report from the Mortgage Bankers Association showed new-home loan applications recently surged as potential buyers take advantage of relatively low interest rates. The National Association of Homebuilders (NAHB) cites a growing economy, low mortgage rates and pent-up demand as factors that will further expand the housing market.

"Single-family builders are feeling good," said NAHB Chief Economist David Crowe. "They are not overly confident, but confident enough to keep moving forward. This is mostly due to significant pent-up demand and steady job and economic growth that will allow trade-up buyers who have delayed home purchases due to job insecurity to enter the marketplace."

NAHB said single-family home production is expected to rise by as much as 26 percent this year, topping 800,000 units, and it should reach 1 million units in 2016. If that's the case, the market would be back to 90 percent of what was considered normal housing activity (using the period of 2000 to 2003 as a benchmark) next year.

Forecasters predict hefty growth in the construction industry during 2015 led by single-family housing, which could see a 15-percent increase, according to Dodge Data & Analytics.





Commercial construction could see a 15-percent rise, with the hotel market especially strong. According to the Architectural Building Index, near-term activity overall is at its highest level in several years.

Spike in hotel construction

Hotel construction is also marching forward with great strength, recently hitting a five-year high, with more than 3,500 projects and more than 443,000 rooms under construction, according to Hotel News Resource. The market posted double-digit year-over-year gains, a trend that's carried on for four consecutive quarters. Last year marked the fifth consecutive year that guestroom demand growth exceeded supply growth, and occupancy reached a 17-year high, as did the average daily rate and revenue per room.

"Developers are extremely positive with development conditions being near perfect," said Hotel New Resource. "Because of the industry's favorable metrics, lenders are increasingly more attracted to hotel investments, making funds easier to access by developers. Interest rates are near record lows and are expected to remain so at least through mid-2015. Favorable economic conditions, record-setting operating metrics and the positive outlook for the next few years have combined to make it a most opportune time for hotel developers."

According to the Architectural Building Index, near-term activity overall is at its highest level in several years. Contractors report a backlog in work, and the amount of upcoming work they

have on the books is higher than at any other time in history.

Highway bill still in limbo

Infrastructure investment continues to lag despite the public's apparent willingness to invest in new roads, bridges and water systems. According to The Kiplinger Letter, highway spending is about 30 percent higher than revenues generated from the fuel taxes that pay for it. The gap has widened during the past few years due to less driving and more fuel-efficient vehicles. During the November 2014 election, several states approved ballot initiatives to raise the funds necessary to build, repair and maintain highways, transit and other resources.

Congress has yet to commit to new multi-year highway legislation. The previous measure (MAP-21) expired last fall, and Congress passed a short-term extension to keep the Highway Trust Fund from running out of money. The extension runs out this May. A recent Society of Civil Engineers Report Card gave the nation's infrastructure a grade of D-plus.

"The outcomes of these elections demonstrate that Americans value well-maintained infrastructure and are willing to make the investment," said Robert Stevens, President of ASCE. ■



KOMATSU DEMO DAYS

The world's first *intelligent* Machine Control excavator was the star – but not the only attraction

Demo Days includes informational seminars and videos on Efficient Machine Operation, KOMTRAX and the benefits of No Idling.



Komatsu America Director of Marketing Communications Bob Post introduces the machines and the ground rules.



Takeshi "Ken" Takaura (left), who designed the new PC210LCi-10, was on hand to explain the *intelligent* Machine Control excavator.

► VIDEO



Komatsu Demo Days, held late in 2014 at the Komatsu Training & Demonstration Center in Cartersville, Ga., was the first opportunity for contractors to try the new PC210LCi-10 – the world's first "intelligent" hydraulic excavator (see related article).

"Contractors everywhere are embracing grade-control technology as a way to move dirt more efficiently," said Komatsu America Director of Marketing Communications Bob Post. "For other manufacturers, that means an "add-on" aftermarket mast and cable system. Komatsu is truly at the forefront by integrating such technology at the factory – first with our *intelligent* Machine Control (iMC) dozers, and now with our intelligent excavator."

At Demo Days, Komatsu had four PC210LCi-10s for attendees to "test drive," along with the complete line of iMC dozers. Beyond the iMC units, Komatsu displayed other Tier 4 machines, including a PC490LC-11 excavator, a D155AX-8 dozer, a WA600-6 wheel loader and the new HM300-5 articulated truck. Komatsu also provided tours of its Chattanooga, Tenn., manufacturing plant, as well as held informational seminars on Efficient Machine Operation, KOMTRAX and the benefits of No Idling.

"The object of Demo Days is to let contractors get their hands on Komatsu machines and kick the tires, so-to-speak," said Post. "Beyond operating the equipment itself, we want to show customers how to get the most out of the technology that we build into each machine. It's that technology that truly sets Komatsu apart. When it's used properly, it will help customers significantly lower their machine owning and operating costs." ■

INNOVATIVE PRODUCT



Discover more

EXCAVATION EXCLUSIVE

Komatsu's PC210LCi-10, world's first *intelligent* Machine Control excavator, minimizes overexcavation

Excavation companies want to move dirt as quickly and efficiently as possible, but conventional methods sometimes limit their ability to do that. Constantly checking grade is time consuming, and overexcavating is costly. Komatsu's new PC210LCi-10, the world's first *intelligent* Machine Control excavator, is a huge step forward in solving those issues with exclusive control function that goes beyond simple guidance to semi-automatically limit overexcavation and trace a target surface.

"From rough-digging to finish-grading, the PC210LCi-10 offers improved efficiency and accuracy compared to traditional methods," said Peter Robson, Senior Director of Intelligent Machine Control. "Once the target elevation is reached, no matter how hard an operator tries to move the joystick control to lower the boom, the excavator won't allow it. Minimizing overexcavation also reduces wasted time and the costs associated with placing and compacting new, expensive material to replace what didn't need to be removed in the first place."

Advanced functions contribute to the PC210LCi-10's ability to effectively reach target elevation without overexcavating, including Auto Grade Assist. As the operator moves the arm, the boom adjusts the bucket height automatically, tracing the target surface and minimizing digging too deep. This allows the operator to rough-dig without worrying about the design elevation, as well as fine-dig by operating the arm lever only. By holding down the lever to move the boom down, the working range is expanded.

Another new function is Auto Stop Control. During boom or bucket operation, the work equipment automatically stops when the bucket edge reaches the design surface.

The excavator also comes equipped with Minimum Distance Control. The PC210LCi-10 controls the bucket by automatically selecting the point on the bucket closest to the target surface. If the machine is not facing a sloped surface at a right angle, it will still follow the target surface and minimize digging below it.

New large touchscreen display

The PC210LCi-10 features a factory-installed, fully integrated *intelligent* Machine Control system that includes Global Navigation Satellite System (GNSS) antennas; stroke-sensing hydraulic cylinders for the boom, arm and bucket; and an IMU (inertial measurement unit). The system works in harmony to provide real-time bucket-edge positioning in relation to the machine

Continued . . .

Komatsu's new PC210LCi-10 *intelligent* Machine Control excavator semi-automatically limits overexcavation and traces a target surface.



Peter Robson,
Komatsu Senior
Director, Intelligent
Machine Control



Jason Anetsberger,
Komatsu Product
Manager, Intelligent
Machine Control

Quick Specs on the Komatsu PC210LCi-10 Excavator*

Model	Operating Weight	Net Horsepower	Bucket Capacity
PC210LCi-10	48,950-52,036 lbs.	158 hp	0.66-1.57 cu. yd.

*All specifications are the same as a conventional PC210LC-10.



▶ VIDEO

The PC210LCi-10 brings automatic features to excavators

... continued

and the job surface, limiting the ability to dig beyond the target elevation and making accurate finish grading possible.

The bucket tip/edge and the design surface are always displayed on the new, full-color, multifunction 12.1-inch touchscreen monitor, eliminating the wait time associated with conventional systems. Information such as real-time and as-built status, a magnified fine-grading view or a 3D view, may be displayed simultaneously.

The PC210LCi-10 makes grading easy and accurate with a facing-angle compass, a light bar and audio guidance that alerts operators as they get closer to final grade. The orientation and color of the facing-angle compass's arrow shows the operator the facing angle of the bucket edge relative to the target surface, allowing for the bucket to be accurately positioned square to the target surface, which is especially useful when finishing slopes.

Colors on the light bar also show the bucket-edge position relative to the target

surface. It's located on the left side of the monitor for easy viewing during operation and increased efficiency. Audio alerts help the operator recognize the target through unique tones that can be programmed for various bucket-edge distances from the target surface.

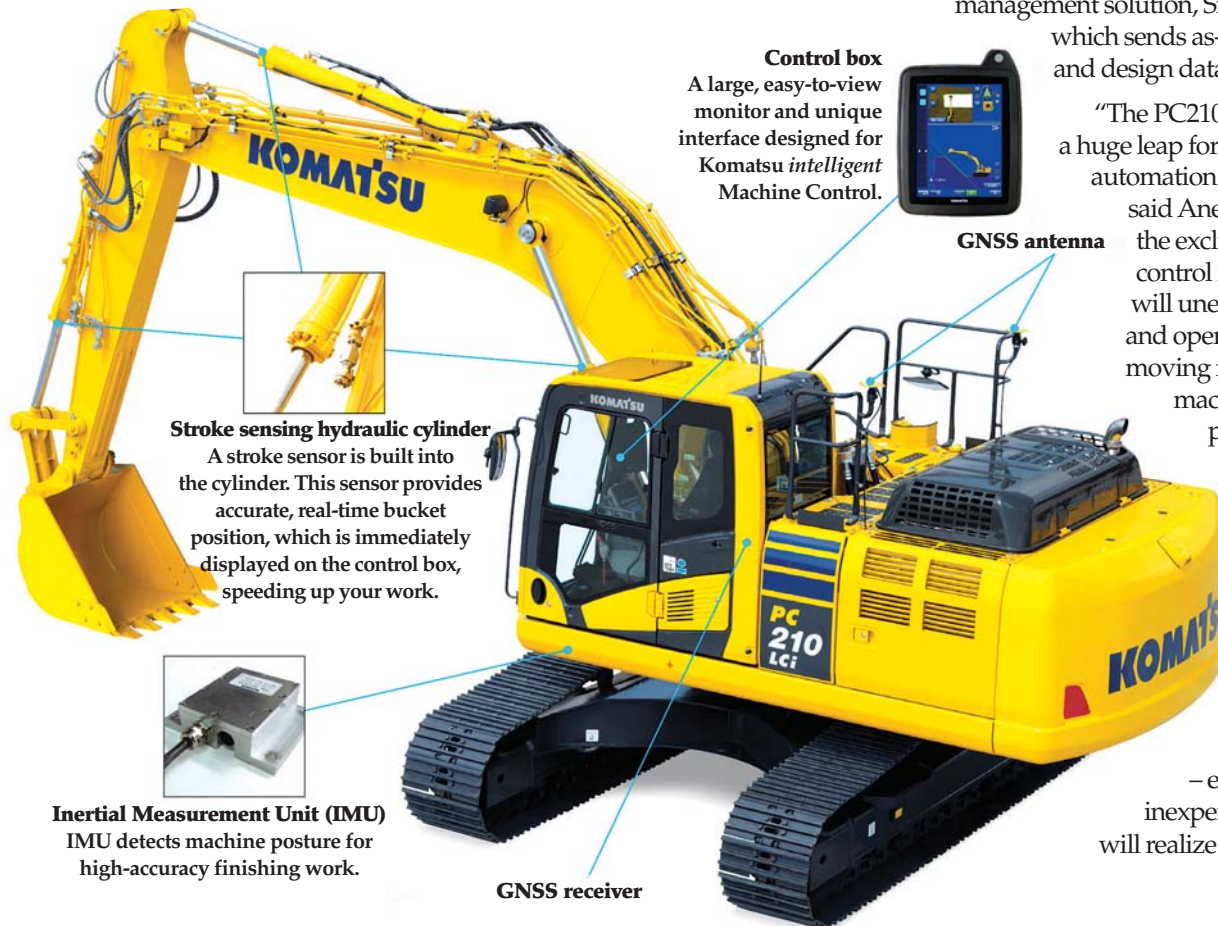
"Operators always know where they are in relation to where they eventually want to be," said Jason Anetsberger, Product Manager, Intelligent Machine Control. "Operators can set audio guidance alerts so that different tones are heard the closer the bucket is to final elevation. For instance, one tone may indicate 2 feet away, while a different tone is heard at 1 foot. Customers who tested the machine really liked the audio alerts because they allow the operator to focus on digging without stopping to check relation to final grade."

Two-way communication

The PC210LCi-10 comes standard with a cellular modem that supports troubleshooting from afar, via the Internet. Additionally, this hardware can be used by Topcon's jobsite management solution, Sitelink3D Enterprise, which sends as-built data to the office and design data to the machine.

"The PC210LCi-10 represents a huge leap forward by bringing automation features to excavators," said Anetsberger. "Thanks to the exclusive semi-automatic control function, customers will unearth their productivity and operators can focus on moving material while the machine semi-automatically protects the target surface. The efficiency improvement, greater value and operation simplicity mirror what has been proven with Komatsu's established *intelligent Machine Control* dozer products – experienced and inexperienced operators alike will realize the benefits." ■

The PC210LCi-10 *intelligent Machine Control* excavator features a factory-installed, fully integrated *intelligent Machine Control* system that includes GNSS antennas, stroke-sensing hydraulic cylinders for the boom, arm and bucket and an IMU (inertial measurement unit).



Control box
A large, easy-to-view monitor and unique interface designed for Komatsu *intelligent Machine Control*.

GNSS antenna

Stroke sensing hydraulic cylinder
A stroke sensor is built into the cylinder. This sensor provides accurate, real-time bucket position, which is immediately displayed on the control box, speeding up your work.

Inertial Measurement Unit (IMU)
IMU detects machine posture for high-accuracy finishing work.

GNSS receiver

Innovative. Intelligent. Integrated.



D61i-23

Next Generation Machine Control

No Masts

No Cables

No Connections

Factory installed Intelligent Machine Control — standard on the new D61i-23. Automated dozing — 1st to last pass with finish grade performance. Intelligent blade assistance minimizes track slip and improves efficiency.

Komatsu — Customer driven solutions.



Conventional
Machine Control



Scan here to see the video.

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A CLOSER LOOK



Discover more

ENHANCED EXCAVATION

Komatsu's new Tier 4 Final PC290LC-11 excavator reduces emissions and lowers fuel consumption

Productivity, dependability and efficiency are all traits users have come to expect from Komatsu hydraulic excavators, and they will find those attributes and more in the new PC290LC-11. With a Tier 4 Final engine, it features greater efficiency, lower fuel consumption, improved operator comfort and enhanced serviceability to maximize productivity while lowering operating costs.

Hydraulic-system enhancements contribute to greater efficiency by reducing hydraulic loss. Komatsu designs and produces all major components, including the powerful 196-horsepower engine, hydraulic pumps, motors and valves. The integrated design uses a Closed Center Load Sensing System (CLSS) that takes hydraulic efficiency to the next level by using Variable Speed Matching technology. Variable Speed Matching allows the engine speed

to adjust based on the hydraulic pump output, and the CLSS improves fuel efficiency and provides quick hydraulic response.

The Tier 4 Final engine further reduces NOx emissions by using diesel exhaust fluid (DEF) and Selective Catalytic Reduction. An advanced electronic control system manages airflow rate, fuel injection, combustion parameters and aftertreatment functions to optimize performance, reduce emissions and provide advanced diagnostic capability. The result is lower fuel consumption without performance loss, compared to the highly popular Dash-10 model it replaces.

Continued . . .



Rob Orlowski,
Product Manager

Quick Specs on the Komatsu PC290LC-11 Excavator

Model	Operating Weight	Net Horsepower	Bucket Capacity
PC290LC-11	66,359-68,122 lbs.	196 hp	.76-2.13 cu. yds.

Komatsu's new Tier 4 Final PC290LC-11 maintains the productivity of its predecessor with enhancements that increase efficiency and lower fuel consumption. New features include an Operator Identification System and an Auto Idle Shutdown function.



The PC290LC-11 is great for high-performance applications

... continued

"Users can track fuel consumption and other vital information through the latest KOMTRAX® monitoring technology, which is available via the web or through our mobile app on their smart phones or other devices," said Product Manager Rob Orłowski. "Data now includes DEF levels, ambient air temperatures and pressures. A new Operator Identification System reports key operating information for as many as 100 operators, and the new Auto Idle Shutdown function helps improve operating costs by reducing unnecessary idle time."

More comfortable operators

Komatsu improved operator comfort with a standard air-suspension high-back seat that has newly designed, fully adjustable armrests. Also incorporated into the quiet cab is an auxiliary input to connect external devices to play music through stereo speakers and two 12-volt power ports. Additionally, optional joysticks with proportional controls for operating attachments are available.

Operators can now check DEF fluid levels through the 7-inch LCD monitor that features enhanced capabilities. They can see operational records, fuel-consumption history and utilization information, and operators can use the monitor to easily select from six working modes to match machine performance to the application. Users can change standard auxiliary one-way

flow to bidirectional for attachment flexibility, and attachment control lets users store up to 10 attachments in the monitor. The ATT/E mode allows operators to run attachments in economy mode for maximum efficiency.

Easier service access

The PC290LC-11 provides enhanced service access in order to reduce costly downtime. It has guardrails on both sides of the upper structure for better accessibility to the service area. The radiator and hydraulic-oil cooler are mounted side-by-side, making it easier to maintain and service those components.

The excavator is equipped with Komatsu's exclusive Equipment Management Monitoring System, which has improved diagnostic features that give operators and technicians better monitoring and troubleshooting capabilities. It continuously monitors all critical systems and preventive maintenance, as well as provides troubleshooting assistance to minimize diagnosis and repair time.

Scheduled maintenance on all Tier 4 machines is covered complimentary by the Komatsu CARE program for the first three years or 2,000 hours. Each service is done by a certified distributor technician and includes a 50-point inspection. The program also includes two Komatsu Diesel Particulate Filter exchanges in the first five years.

Built on a solid foundation

Komatsu's PC290LC-11 maintains the productivity features of the popular Dash-10 model it replaces, such as a heavy-duty frame that's built on a PC360LC undercarriage for excellent stability and long life. Its long arm and long boom provide a 22-foot, 8-inch digging depth, making it a good fit for digging foundations and deep utility trenches, in addition to moving dirt in mass-excavation applications. When needed, operators can boost the digging force for 8.5 seconds with Power Max.

"As with all our new Tier 4 Final machines, the PC290LC-11 was built on the solid foundation Komatsu started with its previous models," said Product Manager Rob Orłowski. "The PC290LC-11 is a stable and reliable machine, designed for applications where high performance is required." ■

The PC290LC-11 features a heavy-duty frame that provides excellent stability and long life. It's a good fit for digging foundations and deep utility trenches and moving dirt in mass-excavation applications.



WA500-7

From Komatsu - The Loader Experts



The WA500-7 Tier 4 Interim Wheel Loader is a class-leading performer in the aggregate industry with improvements in production, fuel efficiency, operator comfort and serviceability.

- Large-capacity torque converter with lock-up delivers power, speed and efficiency.
- New operator's cab offers improved visibility and ergonomics.
- Efficient Tier 4 Interim engine provides up to a 7% reduction in fuel consumption.
- Komatsu CARE provides complimentary Tier 4 maintenance, including Komatsu Diesel Particulate Filter exchange. Contact your Komatsu distributor for details.

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NEW ARTICULATED TRUCK

Komatsu's HM300-5 maximizes productivity in a variety of applications

VYou care about reducing emissions, but chances are you're more concerned that your new machines will move the same amount of material as efficiently as your current equipment. Komatsu's new Tier 4 Final HM300-5 articulated haul truck does that and more.

The HM300-5 maintains the productivity of its predecessor, with a 30.9-ton payload; two single-staged body-lift cylinders that provide a 70-degree dump angle; and selectable working modes that allow the operator to choose between economy and power modes to match the truck's performance to the application or working conditions. Its low 9-foot, 2-inch loading height easily pairs with 30- to 60-ton excavators or 5- to 7.5-yard wheel loaders.

Additionally, it has Komatsu's Traction Control System that automatically provides optimum traction when operating in soft ground conditions. If conditions worsen and it detects tire slippage, the inter-axle-lock kicks in. If tire slippage continues, four independent brakes can be applied to the slipping wheels to regain traction.

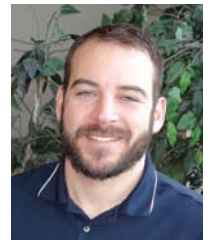
"The HM300-5 is ideal for a variety of applications, from large or small jobs moving dirt for site preparation to large-scale material processing operations with challenging haul profiles," said Komatsu Product Manager Joe Sollitt. "It offers great fuel economy and is ideal for anyone who requires high productivity, even in less-than-ideal conditions."

Standard Payload Meter

Keeping track of production is easier with a standard, integrated Payload Meter that displays the loaded-material weight on an LCD monitor inside the cab. Externally, a pair of lamps illuminate green, yellow or red, triggered as the payload increases through three different ranges.

The Payload Meter optimizes productivity by preventing under- and overloaded haul cycles. Data is stored on board and can be accessed by plugging a laptop into a port in the truck or remotely via KOMTRAX.

"The Payload Meter system allows our customers to monitor production on a daily, weekly or monthly basis," explained Sollitt. "The system also stores very detailed data to allow for full production studies. Komatsu also made the HM300-5 easy to service, with a lightweight, fiberglass engine hood and a cab that tilts rearward for easy access to the transmission and hydraulics. An electrically powered tilt function is now standard. Of course, Komatsu covers scheduled maintenance complimentary for the first three years or 2,000 hours with the Komatsu CARE program, which has been expanded to cover the new Tier 4 Final components." ■



Joe Sollitt,
Komatsu
Product Manager

Komatsu's new HM300-5 articulated haul trucks feature a 30.9-ton payload capacity and a standard Payload Meter that displays loaded material weight on the truck's LCD monitor. External display lamps provide the same information for the loader operator, reducing under or overloading.

Quick Specs on the Komatsu HM300-5 Articulated Truck

Model	Gross Vehicle Weight	Net Horsepower	Payload
HM300-5	117,892 lbs.	324 hp	30.9 tons





HIGH-CAPACITY FELLING

Komatsu's new S132 harvester head provides excellent productivity even in the toughest applications



Steve Yoltz,
Manager,
Marketing Forestry,
for Komatsu
America Corp.

One harvester head that is suited for a wide variety of felling applications is a major advantage for forestry operations. Komatsu's new S132 fits the bill and is an excellent choice in woods where crooked trees and tough branches are part of the project.

The high-capacity S132 is the second in Komatsu's new S-series family of "squeeze-style" heads. Its recommended working range is 6- to 17-inch diameter trees with a cutting diameter up to 28.3 inches. It is available installed on Komatsu 931.1 and 941.1 harvesters and also as a loose head that can be installed on other carriers.

Komatsu's new S132 harvester head performs in a wide variety of felling applications with a recommended cutting diameter up to 28.3 inches. Its new two-driven roller, two-motor squeeze-style feed system is specifically designed to handle tough or crooked stems.



The new two-driven roller, two-motor squeeze-style feed system is specifically designed to handle tough or crooked stems. The unique design allows stems to rotate within the head itself, facilitating the feed of forked, crooked and double stems. New self-cleaning, V-Steel Softgrip™ feed rollers maximize grip while minimizing log damage, and the new cast-steel feed-roller arms provide high reliability and durability.

Built on a proven, robust-frame design, the S132 provides excellent durability and reliability, as well as protects key components. The 360-degree rotator, a 128-degree tilt-link angle and an effective swing-damping/braking system ensures fast-feeding performance and reduces head-frame stress when harvesting and/or reaching on downhill slopes. Standard protective covers on the tilt link and between the tilt link and the hood help protect the S132 from packed snow or accumulating debris.

Five delimbing knives

Designed on the principle that the delimbing knives carry the trunk, the head is equipped with four moveable delimbing knives, three of which are hydraulically controlled. The fourth is an automatically pressure-controlled floating top knife with a sensor to manage Komatsu's Flex Friction Control System™. An additional fifth delimbing knife is fixed and located in the bottom of the frame, just above the saw box and is used when "predelimbing" of trees is needed or before the head is attached on the tree.

"The S132's robust design, high capacity, and ability to perform in very tough felling applications makes this an excellent harvester-head choice for many forestry operations," said Steve Yoltz, Manager, Marketing Forestry for Komatsu America Corp. ■

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TEEING IT UP

GM says Supply Chain Division's mission is to have the right machine, at the right place, at the right time

QUESTION: What makes up Komatsu's Supply Chain Division?

ANSWER: We're responsible for coordinating the inventory and logistics of that inventory for all construction, utility and forestry machines in North America, including the machines that come from our overseas factories. The Supply Chain Division is made up of four distinct departments: Import/Export Logistics, Customer Support, Import Planning and Business Analysis. Each has its unique responsibilities, but we all work together to ensure we meet one simple mission: Have the right machine, at the right place, at the right time for the customer. I believe our job is to tee up the ball for our distributors and let them hit it down the fairway.

QUESTION: How do you go about achieving your mission?

ANSWER: It's a well-orchestrated effort among our departments and our global supply network, which includes our own Komatsu factories and outside vendors that support those factories. We have a very close relationship with our sales, marketing administration and product marketing groups, so we know what's on the horizon in terms of model transitions and new products. That helps us formulate a forward-looking forecast and plan for having proper inventory levels to ensure we have the right number of machines on hand.

QUESTION: So those groups give you an idea of what's coming down the pike, and you procure the materials in order to build the machinery?

ANSWER: Correct, and we're focused on three things as we do that: quality, delivery and cost. From the start, Komatsu builds quality into its

Continued . . .



Bill Chimley, Komatsu General Manager, Supply Chain Division

This is one of a series of articles based on interviews with key people at Komatsu discussing the company's commitment to its customers in the construction and mining industries — and their visions for the future.

This year marks a decade since Bill Chimley joined Komatsu America as a District Sales Manager after spending several years as an instructor with another company. Komatsu moved him into the Supply Chain Division as Manager of Customer Support a few years ago, and it named him General Manager for the entire division in July 2013. He oversees the division, which is responsible for ordering and logistics of all construction, utility and forestry machines in North America.

"From customers' standpoints, the Supply Chain Division is basically an unsung hero," said Chimley. "Customers have jobs to do, and they need machinery to get it done. It's our job to make sure it's readily available when they need it. If we're doing our job, it's a seamless process, and we remain in the background unnoticed. It sounds strange, but that's our goal."

Chimley points out that Komatsu intentionally located the Supply Chain Division at its Chattanooga Manufacturing Operation (CMO) where construction-sized excavators and forestry machines are built.

"It offers us greater understanding of what it takes to deliver a machine, from taking the order to delivering it to the distributor," said Chimley. "We can talk directly with the factory's planning group, and having that one-on-one communication at any time is immeasurable. It gives us insight into the other factories we deal with as well, so there's a real benefit for us to understand the processes and the impact we have on each other."

Bill has been around equipment all his life. His grandfather owned a tractor dealership, and after he graduated from the University of Tennessee, he owned a landscaping business that he later sold. He enjoys landscaping his own yard, as well as hiking in the mountains around Chattanooga and spending time with his wife and two daughters.

Supply Chain Division focused on quality, delivery, cost

... continued

machinery, by making its own components that work in harmony for great efficiency and durability. From the Supply Chain Division standpoint, our goal is to have inventory available that's not too aged and, therefore, potentially subject to quality issues.

Delivery goes back to having machines where they need to be at the exact time customers want to buy them. We can do that by communicating with our dealers, customers and Komatsu personnel, as well as using data from KOMTRAX to track machine usage. That

communication and data help us know where to put resources in order to ensure inventory is available.

Cost means we optimize efficiency, and in doing so, we pass those savings along to customers. For example, as Komatsu develops a new model, we talk with our factories about what we expect so they have time to procure the components to build that machine. Proper lead time typically helps them do that at lower cost. We also try to find the most-efficient and cost-effective way to ship without sacrificing our ability to have equipment where it needs to be when it needs to be there.

QUESTION: How do markets affect what you do?

ANSWER: The energy market is strong in North America right now, and housing continues to strengthen. We hope for solid highway and infrastructure bills, which will put those areas back on track too. With that in mind, we look to adjust inventories to meet those needs. For instance, with a strong energy market comes the need for specialized machines, such as our Pipeline Spec. excavators. So, we take that into account, along with our other information, and use it to ensure our distributor inventories are ready to fulfill customers' requests. ■



Komatsu's Supply Chain Division's role includes ensuring proper inventory levels for its distributors so that customers have "the right machine, at the right place, at the right time," said Bill Chimley, Komatsu General Manager, Supply Chain Division.

Bill Chimley, Komatsu General Manager, Supply Chain Division, said his division communicates with other Komatsu divisions, customers and distributors, as well as looks at market trends, to make certain manufacturing operations have what they need to build new machinery for the North American market.



DOLLARS & SENSE

NO IDLE 2.0

Latest initiative aims to reduce excessive idling and help your operators save you money

A few years ago, Komatsu began a mission to reduce excessive idling. Why? Because it negatively affects your bottom line. Komatsu continued its effort with a second No Idle Initiative, tracking more than 2,800 companies that signed up for the campaign, which lasted for three months. The participants could access training via the web and were given materials to promote the initiative, including items in Spanish and French-Canadian if requested.

During this initiative, 13 percent of participants received "High Achiever" status for all three months, meaning they reduced idle time by at least 5 percent each month, compared to a baseline measurement done before the initiative started. On average, this group reduced idle time by 15 percent. About half of participants earned Komatsu's High Achiever status at least one month during the campaign.

"Unnecessary idling wastes fuel; shortens the time between scheduled maintenance intervals, which increases downtime; and wracks up unproductive hours that lower resale costs when you decide to trade-in or sell a machine," said Goran Zeravica, Komatsu Distributor Development Manager. "In nearly every case, it would be better to shut down a machine when it's not in production."

As part of Komatsu's efforts to end excessive idling, it launched a very successful "No Idle Initiative" in 2012. The main goal during that campaign was for each participant to reduce idle time by 20 percent. About 25 percent of the 1,200 participants achieved that mark or better, and several more came close.

"We geared this campaign more toward operators who are on the front lines when it comes to idle time, because that's what customers said was most important after the last

initiative," said Bob Post, Komatsu Director of Marketing Communications. "It included several promotional items that participants could put in the cabs of their machines or place in other strategic locations on the jobsite or in the office as constant reminders to idle for only five minutes during nonproductive times, shut down the machine at lunch and use a three-minute cool down at the end of the day."

"Socially responsible"

Post and Zeravica said both initiatives proved successful, and Komatsu will continue to use campaigns such as No Idle to promote awareness of cost-saving measures that reduce owning and operating expenses. "We consider this socially responsible marketing that's designed to help customers save money," said Post. "Our aim is to promote additional meaningful ways to do that, such as using economy mode versus power mode whenever applicable." ■



Bob Post,
Komatsu Director
of Marketing
Communications



Goran Zeravica,
Komatsu Distributor
Development Manager

Komatsu's latest No Idle Initiative built on the success of its first, which was designed to bring awareness to excess idling and its detrimental effects. More than 2,800 companies participated in Komatsu's second No Idle Initiative.



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GUEST OPINION

FIND AN ANSWER

Industry leaders call on Congress to pass and find a way to pay for a long-term transportation plan

The Transportation Construction Coalition (TCC), a 31-member organization, is urging Congress to find a way to pay for, and pass, a new long-term surface transportation measure as soon as possible. If Congress fails to act, we believe it would lead to another self-imposed funding crisis that would undermine vital road, highway and transit repairs.

We worked hard to build broad consensus within a deeply divided Congress to invest in the nation's aging roads, bridges and transit systems. Members of Congress can either take advantage of that momentum or add transportation funding back to an already-long list of self-created crises threatening our economic vitality.

In July 2014, despite overall partisan gridlock, Congress overwhelmingly extended authorization for the surface-transportation program and enacted a temporary funding patch for the Highway Trust Fund (HTF). That patch ensures federal highway, bridge and transit investments will continue through May 2015. However, it was the fifth time in the past seven years that Congress took that approach, requiring nearly \$65 billion in supplemental funding to avoid significant cuts to transportation investments. On average, the HTF provides 52 percent of the funding for highway and bridge capital investments made by the nation's state-transportation departments each year.

Congress needs to 'keep the horse before the cart' and address the trust fund's long-term revenue problem, as was done in the 1997 and 2004 tax bills. Then it can develop and properly fund a six-year program bill early this year. 'Status quo' funding levels would simply perpetuate the worsening traffic congestion and the inadequate physical condition of the nation's highway and transit network.

The latest Congressional Budget Office projections indicate Congress will need to identify an additional \$7 billion just to preserve highway and transit funding for the last four months of Fiscal Year 2015. Federal data also show maintaining current program funding beyond 2015 will require an average of \$16 billion in additional revenue each year. That is the revenue equivalent of a 10-cent increase in the federal gas tax.

Despite widespread desire for a multi-year surface-transportation program reauthorization bill to boost economic competitiveness and job creation, such legislation cannot move forward until a long-term funding solution is in place. Congress should identify and pass legislation to fix the HTF to ensure Americans and the U.S. economy continue to benefit from a world-class transportation network. ■

Established in 1996, the Transportation Construction Coalition (TCC) includes 31 national associations and labor unions with direct market interest in the federal transportation programs.

The TCC focuses on the federal budget and surface transportation program policy issues. The TCC is co-chaired by the American Road & Transportation Builders Association and the Associated General Contractors of America.

In July 2014, Congress extended authorization for the surface transportation program and enacted a temporary funding patch for the Highway Trust Fund (HTF), the fifth time it has done so in the past seven years. The Transportation Construction Coalition urges Congress to pass a long-term highway bill instead.



BACK TO WORK

AGC analysis shows construction unemployment falls to lowest level in eight years

Construction unemployment recently reached its lowest rate since 2006, falling to 6.4 percent, according to an Associated General Contractors of America (AGC) analysis. Construction employers added 12,000 jobs in October 2014, bringing the total to a little more than 6 million, the highest since May 2009.

The yearly gain from October 2013 to October 2014 was 231,000 jobs, a 3.9-percent increase. Residential construction fueled more than half the gains with 130,600 new workers, while non-residential added just under 100,000. According to AGC Chief Economist Ken Simonson, there are fewer

unemployed construction workers than at any time in the past eight years.

“For the last several months, the construction industry has added jobs at double the all-industry rate of 1.9 percent,” said Simonson. “Construction wages, which were already higher than the private-sector average, rose 2.6 percent in the last year – the fastest rate since early 2010 – as contractors ramped up their search for qualified workers.”

Not all good news

All construction workers averaged 39.2 hours per week, tying the highest mark since March 2006. Simonson said that along with low unemployment and accelerating wage gains, this points to “an industry that may be on the verge of acute difficulty filling key positions.”

AGC officials said a survey of nearly 1,100 member firms released in October 2014 showed 83 percent of respondents reported difficulty finding craft workers, and 61 percent said other professional positions were hard to fill. They are urging federal, state and local officials to enact measures AGC identified in its Workforce Development Plan that will make it easier for schools, local associations and private firms to establish career and technical education and training programs.

“The construction industry has made an impressive contribution to the nation’s unemployment gains this year,” said AGC CEO Stephen Sandherr. “But those gains are in jeopardy unless schools, colleges and training programs can refill a pool of talent that is rapidly drying up. ■

An Associated General Contractors of America (AGC) analysis showed construction unemployment recently reached its lowest rate since 2006, falling to 6.4 percent. According to AGC Chief Economist Ken Simonson, there are fewer unemployed construction workers than at any time in the past eight years.



SIDE TRACKS

On the light side



"Tell me what LOL means, and I'll tell you what IPO means."

"They tell me that you're really going all out for our safety program."



Brain Teasers

Unscramble the letters to reveal some common construction-related words. Answers can be found in the online edition of the magazine at www.WPIUpdate.com

1. L E P I _ _ _ _ _
2. E R S W E _ _ _ W _ _ _
3. D A G R E R _ _ R _ _ _ _ R
4. G I H N R O S _ S _ _ _ _ _ _ G
5. Y T A P I C A C _ _ _ _ P _ C _ _ _ _

Did you know...

- Zero is the only number that cannot be represented by Roman numerals.
- Kites were used in the American Civil War to deliver letters and newspapers.
- Drinking water after a meal reduces the acid in your mouth by 61 percent.
- Intelligent people have more zinc and copper in their hair.
- A comet's tail always points away from the sun.
- If you stop getting thirsty, you need to drink more water. When a human body is dehydrated, its thirst mechanism shuts off.
- Strawberries are the only fruit whose seeds grow on the outside.
- The moon moves about 2 inches away from the Earth each year.
- Gold is the only metal that doesn't rust, even if it's buried in the ground for thousands of years.

MORE INDUSTRY NEWS

AGC conducting work-zone safety classes throughout 2015

The Associated General Contractors of America (AGC) will conduct highway work-zone safety-training classes designed to prevent injuries among highway, street and bridge construction workers. AGC will conduct the classes at eight locations throughout 2015.

"No amount of safety gear will protect workers if they get hit by speeding vehicles," said Stephen E. Sandherr, CEO. "The best

defense from crashes is teaching crews how to set up and operate safer work zones."

According to the latest federal safety data, 962 workers were killed at road-construction sites from 2003 to 2010. An AGC survey conducted last spring found that 45 percent of contractors had vehicles crash into their work zones during the past year, and that workers were injured in 20 percent and killed in 6 percent of those crashes. ■

More products, demonstration chances at ICUEE

ICUEE-The Demo Expo 2015 will offer attendees more product demonstration opportunities and added products to see, plus new navigation and transportation features to enhance the show experience. ICUEE will be held September 29 to October 1, 2015, at the Kentucky Exposition Center in Louisville. It is expected to be the

largest ever in terms of number of exhibitors and products on display.

"Besides the test-drives, one of the best things about ICUEE, attendees tell us, is the sheer number of suppliers and new products, with 850-plus exhibitors and an exhibit footprint of 20 football fields," said Show Director Sara Truesdale Mooney. ■

GAO report breaks down states' construction spending

The Government Accountability Office (GAO) reported that states used about 6 percent of the contract authority received on construction projects to build new roads and bridges in fiscal year 2013. The November 10, 2014, report said that another 15 percent went to new capacity, such as adding lanes to existing highways and bridges.

Engineering, right-of-way acquisition, planning and utilities took up about 8.5 percent, and 6.5 percent went to safety projects, while 2.5 percent was used for state or local debt service. The remaining funds were used for upkeep, research, environmental work and other areas. ■

Komatsu recognized for sustainability

The Dow Jones Sustainability World Indices (DJSI) selected Komatsu for the second consecutive year. Companies are evaluated and chosen based on

performance, environmental conservation efforts and social activities. Komatsu was one of 319 companies named to the list out of 2,500 surveyed by the DJSI. ■

NCCCO launches boom truck operator certification program

The first phase of a new Certification of Crane Operators (CCO) program designed specifically for boom truck operators is now available from NCCCO (National Commission for the Certification of Crane Operators). The new CCO Boom Truck – Fixed Cab operator certification is a subcategory of the CCO Telescopic Boom – Fixed Cab certification.

CCO Boom Truck – Fixed Cab was developed specifically for the industries that use these machines, such as building

supplies, HVAC, sign installation and tree maintenance.

“While boom trucks have a wide variety of users and applications, many machines don’t operate in typical construction applications, but are engaged in activities such as delivering materials and equipment,” said Joel Oliva, NCCCO Manager, Program Development and Administration. “This new program is designed specifically to address the unique needs of boom truck operations.” ■

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