



focusing on

Solutions



A publication for and about Brandeis Machinery & Supply Company customers

Special feature:

FISHING TOURNEY PREMIERE

First Brandeis customer-
appreciation event in
western Kentucky
draws crowd

NEW MACHINES BOOST YOUR PRODUCTIVITY AND EFFICIENCY

**Interim Tier 4 truck,
excavator save fuel,
reduce emissions**

See articles inside . . .



KOMATSU®

A MESSAGE FROM THE PRESIDENT



Gene Snowden, Jr.

**We're optimistic
about the future**



Dear Valued Customer:

As we wind up this year, we're looking ahead to 2012 with optimism that the construction industry will begin a strong push toward growth. There have been some positive signs lately that show the industry is experiencing growth. As it does, that's going to mean more need for equipment that can get the job done as efficiently as possible.

Throughout this year, Komatsu has rolled out many of its new interim Tier 4 machines. In this issue of *Focusing on Solutions*, we spotlight a new excavator, articulated truck and dozer. Komatsu not only changed the engines in these machines to meet emissions standards, but, in many cases, lowered fuel consumption while increasing horsepower and operating weight.

These machines have additional components that require maintenance, and Komatsu is backing up the technology with an industry first — its Komatsu CARE Maintenance Program that provides complimentary services on new interim Tier 4 machines for three years or 2,000 hours.

Our skilled, factory-trained, service personnel take great pride in ensuring your machinery remains productive with as little downtime as possible. We do that on Komatsu machinery and the other manufacturers' lines we carry, as well as competitors' machines.

If you'd like more information about any products or services we offer, please don't hesitate to call us or stop by one of our branches. We're here to help.

Sincerely,
BRANDEIS MACHINERY & SUPPLY COMPANY

A handwritten signature in dark ink, reading 'Gene Snowden, Jr.' in a cursive style.

Gene Snowden, Jr.
President and Chief Operating Officer



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First Brandeis western Kentucky fishing tournament draws enthusiastic crowd.

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See what the AED has to say about transportation funding.

NEW PRODUCTS

Check out the features and benefits the new Komatsu PC360LC-10 excavator offers, including more efficient excavation.

Find out how Komatsu made its new interim Tier 4 HM300-3 articulated haul truck more productive with a larger payload capacity and reduced emissions.

PRODUCT IMPROVEMENT

Lower emissions and less fuel consumption are just two of the features of Komatsu's new D155AX-7 dozer that make this interim Tier 4 model more efficient than its predecessor.

KOMATSU & YOU

Jim Mathis, General Manager of Manufacturing, Komatsu Peoria Manufacturing Operation, explains how the manufacturer is addressing increased global demand for mining trucks.



Published by Construction Publications, Inc. for Brandeis Machinery
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CUSTOMER APPRECIATION

FISHING TOURNEY PREMIERE

First Brandeis customer-appreciation event in western Kentucky draws enthusiastic crowd

By all accounts, the first-ever Brandeis Machinery Fishing Tournament for its Western Region was a big success. Held September 18 at Kentucky Lake near Kuttawa, the event pulled in 60 anglers in 30 boats.

"It was a very positive experience, and one we're looking forward to continuing in the future," said Regional Manager Bob Morris, who organized the event, along with Paducah Customer Support Manager Chad Porter. "Customers told us they really enjoyed it."

Jason Rigdon and Barry Hornback of Liter's Inc. took first place with a total of 14.4 pounds of fish. Second-place finishers (12.92 pounds)

were David Ramsey, Owner of Ramsey Construction, and participant Randall Duncan, who also took Big Fish with a 4.62-pound lunker.

Continued . . .

Brandeis Machinery personnel prepared dinner on Saturday evening at the Lee Jones Conference Complex.



NEW!



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During weigh-in, participants bring their haul to shore where it's put on the scales for a final total.

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NEW!



NEW!



The band "Dominos" provided music at the pretournament dinner.



Participants enjoyed a large spread at the Saturday evening dinner.

After the tournament, anglers talk as they wait for the weigh-in results.





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 Brandeis Customer Support Manager Chad Porter launches the boats at the start of the tournament on Kentucky Lake Sunday morning. Thirty teams of two participated.



Boats dot the waters of Kentucky Lake as participants wait their turn for weigh-in.



First-place went to Jason Rigdon (left) and Barry Hornback of Liter's Inc., who hauled in 14.4 pounds of fish.



Random-draw winners were Forrest Younker (left) of Trunco and Nathan Pendergraft of Armstrong Coal.



Jane and Jeff Jones enjoyed dinner Saturday at the Lee Jones Conference Complex in Kuttawa.



The team of David Ramsey (left) and Randall Duncan took second place with 12.92 pounds of fish and won the Big Fish prize with a 4.62 pounder.



Dan Langton (left) and Mike Garris of Blankenberger Brothers finished third with 9.6 pounds of fish.



Steve White (left) and Rusty Payne with Yeager Materials are prepared for fishing on Sunday.



Tom Neal of Mulzer Crushed Stone (left) and Eric Erwin with Triad Mining fished as a team in the tournament.



(L-R) James and Lisa Reece and Brandon Board attended the Saturday dinner, which included door prizes and entertainment.



Tournament participants selected door prizes at the event dinner.



James Lee of Gerdau Ameristeel (left) and Chuck Wright of Martin Marietta teamed up for the Sunday tournament.



Event combines fun, food and fishing

... continued

Dan Langton and Mike Garriss of Blankenberger Brothers finished third with a total of 9.6 pounds. Random-draw winners



Troy Glassco of Double A Services (left) and his father-in-law, John Lovin, were a team.



Chad Stillwell (left) and Tony Ochs of Solar Sources get ready to fish by joining other participants for dinner on Saturday.



Nathan (left) and Tom Hamlin of Hamlin Equipment Rental enjoyed dinner Saturday and fishing Sunday.



Arthur and Ginny McKinley attended the dinner on Saturday before Arthur fished in the tournament Sunday.



David Risk (left) and Cary Gaddis of Yeager Materials teamed up for the tournament.



Shane (left) and Chase Greer of S&S Excavating had dinner on Saturday, then fished together on Sunday.

(L-R) Brandon, David and Tara Ford pose before dinner on Saturday.



Brandeis' Dwight Dunn (left) met up with Larry Crisp of the Rogers Group.



were Forrest Younker of Trunco and Nathan Pendergraft of Armstrong Coal.

The customer-appreciation event began the night before with a dinner prepared by Brandeis Machinery personnel at the Lee Jones Conference Complex in Lee Jones Park. Participants received door prizes and the band "Dominos" provided entertainment.

Participants had the opportunity to practice fish the same day. At 6:30 the next morning, teams launched boats from the Kuttawa/Lyon County Boat Ramp to spend up to six hours on Lake Kentucky. Weigh-in ended around 3 p.m.

"We began planning for this in the spring and observed in April the successful tournament our Eastern Region runs so we could learn how to do it," said Porter. "Now that we have the first one under our belts, we're planning for the future. We're very happy with the turnout and how well the dinner and tournament went." ■



(L-R) Brandeis Machinery's Chris Alcorn and Mark and Jeff Hinderliter of Hinderliter Construction get together before the dinner on Saturday evening.

(L-R) Greg Sharp, Jay Smith and Brandon Choat of Smith Contracting prepare for the tournament festivities.



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WHERE ARE WE HEADED?

There's a need for infrastructure investment, but how to fund it remains in question

Congress passed and the President signed an act that provides an extension of funding for surface and air transportation. It came as welcome news to construction companies, their subcontractors and suppliers who work in those sectors, but the reality is that they can only breathe a sigh of relief for a short period of time.

The Surface and Air Transportation Extension Act of 2011 only provides monies into the first quarter of next year — another short-term mechanism for funding, much like what Congress has done since the previous highway bill expired in September of 2009. That means the fight for dollars to build the nation's infrastructure will be brought up again soon.

This comes at a time when numerous studies show America's highways, bridges, airports and other modes of transportation are suffering from a serious lack of investment. An American Society of Civil Engineers (ASCE) report shows that to bring the nation's surface transportation infrastructure up to tolerable

levels, about \$1.7 trillion is needed between now and 2020. Current funding levels fall short of that total by \$846 billion or \$94 billion per year, according to the report.

The results of underfunding are stark, the report notes. It will cost the economy 870,000 jobs and suppress growth of the country's Gross Domestic Product (GDP) by more than \$3 trillion by 2020. It will also cost American households and businesses more than \$129 billion in vehicle operation, delays, accidents and environmental damage.

"Clearly, failing to invest in our roads, bridges and transit systems has a dramatic, negative impact on America's economy," said ASCE President Kathy J. Caldwell, P.E., F.ASCE. "The link between a nation's infrastructure and its economic competitiveness has always been understood. But for the first time, we have data showing how much failing to invest in our surface transportation system can negatively impact job growth and family budgets. This report is a wake-up call for policymakers because it shows that investing in infrastructure contributes to creating jobs, while failing to do so hurts main street America."

According to a study by the Harvard Center for Risk Analysis, inadequate infrastructure systems also contribute to health problems. The analysis looked at health costs resulting from higher emissions associated with road congestion. Results showed traffic-related air pollution as a contributing factor to heart attacks and strokes, with emissions from idle vehicles causing nearly 4,000 premature deaths.

It also costs the country in terms of stature. A World Economic Forum report in 2007-2008 ranked our nation's infrastructure systems sixth best in the world. In a new report released in September, the U.S. slipped to 16th.

The nation's transit systems, including roads and rail, are in need of repair. One study shows \$1.7 trillion is needed during the next eight years to bring infrastructure up to tolerable levels.





A government report said America spends about 2 percent of GDP on infrastructure, about half what it did 50 years ago and well below other global leaders.

Gas tax increase unlikely

A recent Market Watch article, "How to fix crumbling U.S. roads, rails and airways," pointed out that "Deficits in the U.S. trust funds that support the country's Interstate system and civil aviation have been widening for years, as tax revenue failed to keep up with inflation. To fill the gaps, Congress has been taking cash from the general fund.

"But tax revenue for the general budget has declined as well because of the economic recession and the Bush-era tax cuts, and now Congress is determined to eliminate the shortfall by reducing spending across the board," it continued. "For every \$1 billion pulled from the U.S. budget for highways, an estimated 30,000 jobs are lost, according to a 2007 report from the Department of Transportation."

The ASCE report noted a modest investment would go a long way, saying an amount "equal to about 60 percent of what Americans spend on fast food each year, would: protect 1.1 million jobs, save Americans 180 million hours in travel time each year, deliver an average of \$1,060 to each family and protect \$10,000 in GDP for every man, woman and child in the U.S."

The gap in funding isn't likely to decrease soon, and may widen further. The national 18.4-percent gas and 24.4-percent diesel per-gallon taxes haven't been raised in nearly



Numerous roads and bridges have been rated as structurally deficient or in need of repair, causing our nation's global rank to fall from sixth to 16th in terms of infrastructure systems.

Funding for surface and air transportation was extended into next year, but long-term plans remain elusive.

two decades, and the recession has meant less driving, which in turn means less fuel purchased. More fuel-efficient cars and new standards to further improve fuel efficiency equate to even fewer fill-ups.

Potential funding sources

So where will the money come from to repair and replace an ever-increasing deterioration of the nation's surface, air and other transit systems?

Given the economic and political climates, an increase in the gas tax isn't likely any time

Continued . . .

Various funding sources offer potential solutions

... continued

soon. Alternate funding methods have been discussed, but there are no sure bets right now. Past research from a survey by the firm HNTB showed Americans preferred tolling to increased gas taxes.

HNTB's Pete Rahn said tolls will likely be a more prominent source of future funding. The organization's survey revealed most of the nation supports highway tolls with 82 percent saying the rate should be a dollar or less for every 10 miles on an Interstate. Fifty-six percent of those said the rate should be less than 50 cents.

Sixty-six percent of the people polled by the organization said they would like their toll money to go toward relieving congestion issues, with 41 percent saying they would support their toll money going to road and bridge repair. Others said they would like to see the money go toward dedicated truck lanes or adding lanes to existing roads.

The American Recovery and Reinvestment Act — also known as the stimulus bill — that was passed in 2009 funded some road construction project during the past two years. In a speech before Congress in September, the President proposed additional spending on infrastructure as a way to boost the economy.

One idea he mentioned was an "infrastructure bank" that would provide loans or loan guarantees for transportation and other projects. The idea has been brought up several times before, including bills proposed by congressional

leaders. One put forth in the Senate would make the bank an independent government entity with congressional oversight. The proposal would give the bank a one-time appropriation of \$10 billion that would lead to more than \$600 billion in future projects.

The rest of the money would come from private investments in the infrastructure bank. Investors could partner with local, state and regional governments and propose a project to the bank, which would determine its worthiness based on factors such as public demand and support and the ability of the project to generate revenue that would pay back investors.

If deemed a worthy project, the bank would loan up to 50 percent of the total cost, making the bank another investor. Loans would be repaid through revenue generated from the project, which may come from such sources as dedicated state taxes, fees, tolls and passenger tickets.

PPPs

These "public-private partnerships" (PPPs) have already worked together on some state-level projects. According to the National Conference of State Legislatures, PPPs are agreements that allow private companies to take on traditionally public roles in infrastructure projects, while keeping the public sector ultimately accountable for a project and the overall service to the public. A government agency typically contracts with a private company to renovate, build, operate, maintain, manage or finance.

"Though PPPs are not optimal for many transportation projects, they have been shown to reduce up-front public costs through accelerated or more efficient project delivery," said the organization. "PPPs don't create new money but instead leverage private-sector financial and other resources to develop infrastructure."

Not everyone agrees on how to pay for the infrastructure investment, but most everyone agrees that something has to be done.

"We can no longer ignore the growing liability our aging roads present to U.S. economic competitiveness and the mobility of our citizens," said HNTB's Rahn. "Americans are feeling the pain, every day, as they commute and cross the nation's highways and bridges." ■

Several funding sources have been proposed, including public-private partnerships, which allow companies to pair with government entities as investors in a project. Known as PPPs, they have been used on state-level projects around the country.



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A STEP IN THE RIGHT DIRECTION

Congress temporarily extends transportation funding; a multi-year bill should be a priority

In September, the Senate approved the Surface and Air Transportation Extension Act of 2011 (H.R. 2887). The bill, which the President signed, extends the surface transportation and airport construction programs until March 31, 2012, and January 31, 2012, respectively. Had the programs lapsed, the Highway Trust Fund would have lost \$100 million per day in gas tax revenue and more than 1.6 million jobs would have been at risk.

"AED applauds Congress for putting politics aside and moving forward with extensions of federal transportation construction programs," said Associated

Equipment Distributors President Toby Mack. "This legislation ensures that the hundreds of thousands of workers who build and maintain our highways, bridges and airports can continue their work, at least temporarily."

Given the current political situation in Washington, this is an important victory. House Republican leaders, who previously advocated cutting the highway program, were willing to go along with the deal, recognizing the massive job losses that would result from funding cuts.

The bill effectively extends highway and FAA construction programs at current spending levels. "While the extension is welcome news, it falls short of giving the construction and equipment industries the certainty essential to recovery and job creation. By delaying action on a new multi-year highway bill, Congress is putting off much-needed investment in the infrastructure the U.S. economy needs to grow and flourish," Mack said.

As further evidence that the Hill is waking up to the need for action on highway reauthorization, a memo on job creation by House GOP leadership released in September cited infrastructure spending as a possible area for bipartisan cooperation saying, "Congress and the President should spend the next few months working out a multi-year transportation authorization bill." ■

Congress passed a bill that extends surface transportation and airport construction funding through January 31, 2012. The Associated Equipment Distributors believe a long-term bill is a necessity.



This article is from the Associated Equipment Distributors, a trade association representing companies in the distribution, rental and support of equipment. Its members account for more than \$15 billion of annual sales of construction equipment and related supplies and services in the U.S. and Canada.

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NEW PRODUCTS

MORE POWER, LESS FUEL

New Komatsu PC360LC-10 offers more efficient excavation

Efficiency is the name of the game when it comes to moving dirt. Now, a new player in the excavation game, Komatsu's interim Tier 4 PC360LC-10 excavator, has taken the lead. Using its proven Tier 3 platform, Komatsu added features to provide greater efficiency with lower fuel consumption, improved operator comfort and enhanced serviceability, all of which maximize productivity while lowering operating costs.

In addition to meeting interim Tier 4 engine standards, the 257-horsepower PC360LC-10 uses an integrated design with Komatsu-exclusive hydraulic pumps, motors and valves. The design has a closed-center, load-sensing hydraulic system that uses variable speed matching to adjust engine speed based on the pump output. To make the excavator even more efficient, Komatsu enhanced the hydraulic system to reduce hydraulic loss and fuel consumption.

Komatsu lowered the fuel consumption while providing additional horsepower (compared to its predecessor, the PC350LC-8) with a larger-displacement engine that features an advanced, electronic control system to manage air-flow rate, fuel injection, combustion parameters and aftertreatment functions. An integrated Komatsu Diesel Particulate Filter (KDPF) reduces emissions without interfering with machine performance.

"Komatsu's mid-size excavators have always been considered the top of their size class, and the PC360LC-10 fits right in," said Product Manager Doug Morris. "Users will find it an excellent digger for speciality work, such as trench and large foundations, as well as for productive bulk excavation. It also has good power to run attachments, such as demolition grapples or hammers."

Strong, comfortable cab

A new, strong, ROPS-certified cab has a reinforced pipe-structure framework with viscous damper mounts for low vibration. A high-back, fully adjustable seat uses air suspension and is heated for improved comfort. An auxiliary input and two 12-volt ports are standard.

"Outside the cab, the PC360LC-6 has handrails that surround the upperstructure for easy access to service points," noted Morris.

"We want users to get maximum production with minimal downtime. The PC360LC-10 delivers just that," he concluded. ■



Doug Morris,
Product Manager

Brief Specs on PC360LC-10

Model	Operating Weight	Horsepower	Digging Depth
PC360LC-10	79,930 lbs.	257 hp	26 ft., 10 in.

"Komatsu's new PC360LC-10 excavator offers excellent digging power for large trenches as well as bulk excavation," said Product Manager Doug Morris. "It also has good power to run attachments, such as demolition grapples or hammers."

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NEW ARTICULATED TRUCK

Increased load capacity among more productive features of Komatsu's new HM300-3 truck



Rob Warden,
Product Manager

When Komatsu made changes to its articulated dump trucks to meet interim Tier 4 regulations, it took the opportunity to also make the trucks more productive. Case in point, Komatsu's new HM300-3. The artic truck now reduces emissions and offers increased capacity compared to its predecessor model.

Komatsu also increased operating weight, while maintaining a maximum ground speed of 36.4 miles per hour in order to move more material in the same amount of time. "The HM300-3 has a low, nine-foot, three-inch loading height, so it matches up well with 30-ton to 60-ton hydraulic excavators and five-yard to seven-yard wheel loaders," said Product Manager Rob Warden. "In addition, it has two, single-stage,

body-lift cylinders that give it a 70-degree dump angle. It's a very efficient and productive truck that fits well into load-and-carry applications."

The HM300-3 features a new Komatsu Traction Control System (KTCS) that automatically provides optimum traction when operating in soft ground conditions. The HM300-3 continually monitors machine performance and detects changes in momentum due to soft ground conditions. When a change in momentum is detected, the inter-axle differential lock applies automatically, activating KTCS. KTCS monitors tire slippage with sensors located on four wheels. If slippage occurs, the four independent brakes automatically apply as necessary to regain traction.

In addition, a Komatsu Advanced Transmission with Optimum Modulation Control System (K-ATOMiCS) offers a six-speed, fully automatic transmission that selects the ideal gear based on vehicle speed, engine rpm and shift position. It results in powerful acceleration, smooth downshifting and synchronized engine speed when climbing slopes. K-ATOMiCS also helps keep the load in the body and increases productivity.

A new cab design on the HM300-3 provides a more comfortable and quiet work environment, including a rounded front dash panel with easy-to-reach switches. A redesigned dashboard and relocated, air-ride seat improve visibility. From the new, high-resolution monitor, the operator can modify settings, such as reversing the fans or selecting the starting gear.

"A newly designed engine hood provides convenient access to service points and improved forward visibility," Warden pointed out. "Of course, it has the same standard features, such as KOMTRAX, that make it a true Komatsu machine, so we know users will find the HM300-3 a valuable addition to their fleets." ■

Brief Specs on HM300-3 Artic Truck

Model	Operating Weight	Load Capacity	Ground Speed
HM300-3	116,823 lbs.	22.4 cu. yds.	36.4 mph

NEW!



Komatsu's new interim Tier 4 HM300-3 articulated haul truck provides greater load capacity and a new traction-control system that automatically provides optimum traction when operating in soft ground conditions.

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ARTICULATED TRUCKS

From Komatsu – The Truck Experts



The redesigned Tier 4 Interim Articulated Trucks will boost your productivity and lower your costs. From increased payload to improved traction control, the truck experts at Komatsu once again deliver on your need for a lower cost per ton moved.

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- Efficient Tier 4 Interim engine provides up to an 8% reduction in fuel consumption.
- Komatsu CARE provides complimentary Tier 4 maintenance, including KDPF exchange filters. Contact your Komatsu distributor for details.

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NEW D155AX-7 DOZER

Interim Tier 4 model builds on already productive features for greater efficiency



Bruce Boebel,
Product Manager

On its surface, Komatsu's new D155AX-7 dozer is much like its predecessor: the operating weight, net horsepower and blade capacity all remain the same. However, many comparisons stop there as the new interim Tier 4 D155AX-7 offers lower emissions, yet maintains low fuel consumption for reduced per-yard costs.

Coupled with a highly efficient, automatic transmission, the new interim Tier 4 engine uses advanced electronic control to manage air-flow rate, fuel injection, combustion parameters and aftertreatment function for optimal performance. The automatic gearshift transmission and lock-up torque converter transfer engine power directly to the transmission, providing a 10-percent decrease in fuel consumption compared to conventional models. The D155AX-7 uses a much larger cooling package

with improved airflow to keep the engine running cool in harsh working conditions.

"Even in the toughest working conditions, the D155 remains efficient and productive," said Product Manager Bruce Boebel. "It meets all the interim Tier 4 standards for reduced emissions, without sacrificing the excellent power previous D155 models have become known for in dozing and ripping applications where mass quantities of material are involved."

To fit the application at hand, operators can choose from automatic or manual gearshift modes: automatic for general dozing and manual for dozing and ripping in rough ground. The automatic gearshift transmission shifts to the optimal gear range based on working conditions and load.

Auto blade pitch, ripper controls

Equipped with Komatsu's unique SIGMA dozer blade, the D155AX-7 has a capacity of 12.3 cubic yards. While that's the same as the previous model, Komatsu incorporated a new, automatic, blade-pitch function that reduces operator effort and increases efficiency. With the flip of a switch, it sets blade-pitch position between digging and dump positions with no additional lever movements. Operators can set the blade-pitch control through the seven-inch HD monitor to automatically return to the digging position when they select reverse.

"A new ripper-control lever is more ergonomic for increased operator comfort," said Boebel. "Like our other interim Tier 4 machines, we didn't stop with just putting in a new engine. Komatsu worked with customers to identify features that would improve their dozing and ripping performance. We believe we've made a dramatic improvement with the D155AX-7." ■

Komatsu's new D155AX-7 dozer features an automatic blade-pitch function that increases operating efficiency and reduces operator effort. The new dozer is interim Tier 4 compliant and maintains the same low fuel consumption as the D155AX-6.



D65-17

From Komatsu – The Dozer Experts



Komatsu has once again made a great machine even better. The new D65-17 increases productivity and operator comfort while lowering operating costs. All designed to improve your bottom line.

- Efficient Komatsu Tier 4 Interim engine and automatic shift transmission with lockup torque converter maximize productivity while saving fuel.
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- Komatsu CARE provides complimentary Tier 4 maintenance, including KDPF exchange filters. Contact your Komatsu distributor for details.

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Komatsu CARE for Komatsu Tier 4 Interim models is a new, complimentary maintenance program designed to lower your cost of ownership and improve your bottom line. It provides factory-scheduled maintenance on the machines for the first three years or 2,000 hours, whichever comes first. This includes up to two exchange Komatsu Diesel Particulate Filters. Be sure to contact your Komatsu distributor for all the details.

Once again, Komatsu leads the industry. No other construction equipment manufacturer offers a complimentary maintenance program like this.

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FORECASTING THE FUTURE

GM says PMO continues to expand production to meet present, future global mining demand

QUESTION: There have been a few sparks in construction, but overall activity remains low. How's mining?

ANSWER: Mining has been strong for quite a while now. We are producing more than four or five times the number of trucks we did just 10 years ago. It's probably more than many of us here at Peoria Manufacturing Operations (PMO) thought was even possible back in 2002. Mining continues to be very strong globally, so there's a great demand for the five Komatsu mining trucks we manufacture.

QUESTION: How are you meeting demand?

ANSWER: Taking into account several factors, such as historical trends, current mining and what we see down the road, we update our forecast frequently. More recently, our firm-order backlog is very strong and we are able to see the future more clearly. We're basing our production on what we believe the long-term trends will be. Again, we expect mining to remain strong, so we're being proactive.

Most of our operations are running around the clock to ensure we meet our production goals and the demand for our mining trucks, which is globally very high. Because demand is so high, we added a second assembly line and further refined our processes to make them even more efficient. That's allowed us to double the number of trucks produced a day, and we're working to further increase that.

QUESTION: Why are Komatsu mining trucks in such demand?

ANSWER: Komatsu trucks have always been at the top of the class in terms of per-ton costs because they're not only efficient, but reliable and have a long life cycle. A big reason why is because the trucks are electric-drive as opposed

Continued . . .



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.

Jim Mathis, General Manager of Manufacturing, Komatsu Peoria Manufacturing Operation (PMO)

Jim Mathis has returned to his roots. Mathis is a General Manager of Manufacturing at Komatsu's Peoria Manufacturing Operation (PMO), where he has spent most of his career with Komatsu.

Mathis started at PMO in 1984 as Production Scheduler and moved his way up to Superintendent of Component Manufacturing. In 2008, he was promoted to Director of Manufacturing Administration, which meant a move to Komatsu America's headquarters in Rolling Meadows, Ill.

"I've spent my entire adult life with Komatsu," Mathis said. "I'm very happy to be returning to Peoria and getting the chance to work with many of the same people I worked with during the 20 years I was here before. I can't say enough good things about the people who work here. Their hard work, dedication and commitment have helped PMO expand its production capacity greatly."

Mathis, along with another general manager, oversees a staff of more than 600 salaried and hourly workers at PMO, where five models of electric-drive, mining haul trucks are produced. He's responsible first and foremost for safety, then quality, followed by production, delivery and profit and loss.

"It's a challenge, but one that I enjoy," said Mathis. "I've seen many changes through the years that have made our equipment better, both in production and reliability. There's nothing more satisfying than knowing we're building a truck that's going to help a customer be more profitable."

Mathis completed an MBA at Peoria's Bradley University a few years ago, while working at PMO. Jim and his wife, Suzanne, have five children, the youngest of which started her freshman year of college this fall.

Komatsu — at the forefront of technology

... continued

Komatsu's Peoria Manufacturing Operation works around the clock to ensure timely assembly and delivery of five sizes of mining trucks.



Some of the world's largest mining trucks, including electric-drive 830Es are assembled at PMO. "It's been proven that our trucks work longer with less downtime. That makes a huge difference to a mine that's running 24 hours a day," said Jim Mathis, General Manager of Manufacturing at PMO.



to mechanical. It's been proven that our trucks work longer with less downtime. That makes a huge difference to a mine that's running 24 hours a day. Our customers tell us that.

Of course, many other features have been a direct result of our working with customers and listening to their needs to incorporate those into our trucks. Based on their recommendations, we've integrated convenience features, such as ramp-style staircases to the driver's cab rather than a ladder hanging on the side.

QUESTION: Komatsu has built its reputation for mining trucks based on the foundation of reliability. What does the factory do to ensure each truck reinforces this reputation?

ANSWER: It's important to recognize that product quality begins with unrivaled design, followed by rigorous testing and confirmation. Only then can manufacturing truly excel at producing high-quality products and deliver reliability to our customers. We make countless quality checks and confirmations every day on every truck throughout the production process. This also includes the critical role our suppliers play in supporting us. It's not something special or unique. It's what we do every day with every process.

QUESTION: What does the future hold beyond Tier 4?

ANSWER: In some sense, Komatsu is already there and has been for quite some time. We've been developing, producing and testing autonomous haul trucks — trucks that run without a driver — for several years. They are already being used in active mines. That's a huge technological advantage for the customer because it keeps costs down, and for us because it puts us at the forefront of the mining equipment industry.

We've always been strong in technology, especially in tracking machine usage, function, production and maintenance with our KOMTRAX PLUS system. It allows both us and the customer to see how a truck is being used so we can build future machines based off that information and customer recommendations. We never stop trying to improve. ■



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ENGAGING EXCAVATION

Komatsu's KMAX tooth system offers cost-effective solution in a large range of applications



Gary Jones,
GM Product Support
& Marketing,
Hensley Industries



Brent Dennis,
Marketing Mgr.,
Hensley Industries

In 2003, when Komatsu introduced its KMAX tooth system, it was limited to six tooth styles strictly for excavators. Today, those numbers have expanded to more than 20 ground-engaging tools for both excavators and wheel loaders — PC120 to PC800 and WA150 to WA800 — that handle a wide range of applications.

"There's a right fit for virtually anyone who does excavation or similar types of work, whether they need teeth for digging in clay or rock, or they need something with good penetration into a pile, such as quarry work," said Gary Jones, General Manager Product Support & Marketing for Hensley Industries, a Komatsu company that produces the KMAX tooth system. "The number of styles we have is a direct result of listening to our customers' needs and cost-effectively crafting teeth that meet those needs."

The KMAX tooth system, which now comes on Komatsu buckets, is cost-effective

for several reasons, said Jones. Chief among them is durability, which is achieved through superior heat treatment that hardens KMAX teeth to the core, as opposed to some teeth that have hard exteriors but are soft on the inside.

"That gives our teeth a longer life, allowing use to 60 percent of wear as opposed to the usual 40 percent before replacement," said Marketing Manager Brent Dennis. "Heat treatment to the core is one part of the equation. Another is our streamlined design that allows KMAX teeth to offer better penetration of the material while staying sharper longer. That means added efficiency and durability for lower owning and operating costs."

Fast, easy, safe

When teeth need to be changed, the process is fast, easy and safe. Users simply need a socket wrench to unlock the reusable, non-load-bearing fastener in order to remove the tooth from the adapter on the bucket. After placing the new tooth on, it's easy to tighten it back down. In most cases, the process takes less than a minute.

"We believe it's the best system on the market because there are no pins to be hammered out," said Jones. "Our teeth are designed so that if users see uneven wear, they can flip the teeth."

"While KMAX teeth are first-fit on Komatsu machinery, the KMAX system can adapt for use on other brands," Dennis pointed out. "If you add it all up — durability, better penetration of material, speed of tooth changes, safety — we're convinced the KMAX system offers the best tooth value in the industry." ■

NEW!



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Komatsu's KMAX tooth system offers durability in more than 20 tooth styles for a wide range of excavators and wheel loaders. It's easy and safe because the system requires only a socket wrench — no pins to hammer — to remove and replace teeth from the adaptors.



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END EXCESSIVE IDLING

Komatsu personnel explain how non-productive hours negatively affect your machinery

Equipment monitoring systems, such as Komatsu's KOMTRAX, provide valuable information on machine functions, including hours, fuel consumption, machine location, trouble warnings and more. All items are important, but there's one function that's often overlooked, and Komatsu's Goran Zeravica and Rizwan Mirza are on a mission to let users know that it may be the most important one of all.

"Owners and operators don't seem to take idle time into account as much as they should," emphasized Zeravica, Distributor Operations Development Manager, ICT-Construction Business Division. "It has a huge impact on owning and operating costs, in many cases driving up those costs well beyond what they should be."

Studies show that a rather large percentage of a machine's working hours are spent idling rather than actually working. According to Mirza and Zeravica, the industry average is about 37 percent of time idling. "If that's the average, it means there are machines out there idling well above that, sometimes in the range of 50 percent or more," said Mirza, Manager, KOMTRAX, ICT-Construction Business Division. "In nearly every case, it would be better to shut the machine down when it's not in production and reduce the idle time."

Idle time adversely affects machines in several ways. "The most obvious is the amount of wasted fuel," Zeravica noted. "But something else to think about is the number of unnecessary hours being put on that machine. That drives up owning and operating costs, too."

"Letting a machine idle means reaching service intervals sooner, thereby raising owning and operating costs even more," added Mirza. "Tier 4 machines will increase the need to eliminate idling

because the Komatsu Diesel Particulate Filter (KDPF) must be cleaned/serviced at 4,500-hour intervals, according to Komatsu's recommended specifications. In addition, idling for extended periods prevents the KDPF's passive regeneration system from meeting optimal temperatures for maintaining cleanliness. The result could be additional active regenerations consuming more fuel or additional KDPF cleanings at less than 4,500 hours."

Warranty affected

Piling up the hours idling also hurts your bottom line from a warranty standpoint. Idle hours count against the warranty clock just as productive hours do. If you're idling, you'll reach the end of the extended warranty period sooner.

"That's something that hardly ever crosses most users' minds, and it should be at the forefront of their thinking," Zeravica pointed out. "One other area most don't consider is resale value. If you have a five-year-old machine to sell or trade with 10,000 hours as opposed to 5,000 or 6,000, you're obviously going to get less for it. Bottom line, machine owners and operators need to take a proactive approach to idling. If the machine isn't producing, shut it down." ■

Letting a machine idle can cost you in many ways, including everything from wasted fuel to resale value.



Rizwan Mirza,
Manager,
KOMTRAX,
ICT-Construction
Business Division



Goran Zeravica,
Distributor Operations
Development Manager,
ICT-Construction
Business Division



LOST REVENUE

Analysis shows proposed fuel-efficiency standards would reduce highway funding

Proposed new fuel-efficiency and emissions standards for everything from cars to light- and heavy-duty trucks could have a detrimental effect on transportation funding, according to an American Road and Transportation Builders Association (ARTBA) analysis. It predicts that revenues through 2025 could fall by a total of more than \$75 billion for state, federal and local highway, bridge and transit improvements.

ARTBA says the new standards, announced in late July, would be the equivalent of eliminating all federal highway funding for nearly two years. One proposal calls for an increase to an average of 54.5 miles per gallon for new cars and light trucks between 2017 and 2025.

ARTBA's analysis assumes the mpg requirement will be phased in at 5 percent per year during that time frame. That is on top of a current increase in fuel standards that was announced last year, which increases the average mpg increase from 28.3 to 34.1 by

2016. ARTBA Vice President of Economics and Research Dr. William Buechner estimates that would cost the Highway Trust Fund about \$9 billion, with another \$65 billion or more lost by the latest proposed standards.

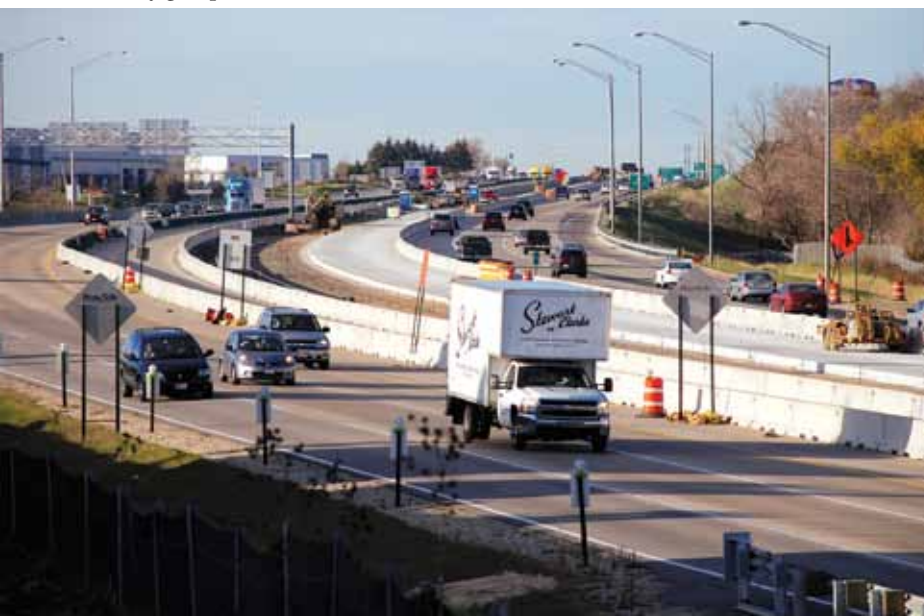
The Highway Trust Fund's primary revenue source is federal gas and diesel taxes collected from motorists filling up their vehicles. Therefore, lower motor-fuel sales mean less money in the coffers.

New standards for medium- and heavy-duty trucks, developed by the Department of Transportation and the EPA with input from the trucking industry, environmental groups and state governments, are slated to go into effect between 2014 and 2018. Most tractor-trailers will be required to reduce fuel consumption and emissions by up to 20 percent by model year 2018. Heavy-duty pickups require about a 15-percent reduction.

The projection is that these new standards will reduce oil consumption by 530 million barrels of oil, cut carbon emissions by about 270 million metric tons and save an estimated \$50 billion in fuel costs.

"Like everyone else, we are supportive of efforts to reduce carbon emissions and improve fuel economy," said ARTBA President Pete Ruane. "However, from a public-policy perspective, this is a classic case of the left hand not knowing what the right hand is doing. It's irresponsible to advance such proposals without acknowledging and attempting to mitigate the adverse effect they would have on the areas of federal responsibility, like making infrastructure improvements that improve safety, reduce traffic congestion, create jobs and help grow the economy." ■

Proposed new fuel-efficiency standards could cost billions in lost revenue that goes toward highway and other transportation funding, according to industry groups.



SIDE TRACKS

On the light side



"That's it, no more casual Fridays!"

"Mr. O'Reilly couldn't be here today. I'm his attorney."



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.BrandeisSolutions.com

1. P R I R P E _ _ _ _ P _ _ _
2. T A M O K U S _ _ _ _ _ _ _ _ U
3. L I R A X A U Y I _ _ _ X _ _ _ _ _
4. P E G A R L P _ _ _ _ _ _ _ _ L _
5. G I L I N D _ _ D _ _ _ _ _

Did you know...

- George Washington was the only unanimously elected U.S. president.
- The average human body contains enough:
 - iron to make a three-inch nail,
 - sulfur to kill all fleas on an average dog,
 - carbon to make 900 pencils,
 - potassium to fire a toy cannon,
 - fat to make seven bars of soap,
 - phosphorous to make 2,200 match heads,
 - and water to fill a 10-gallon tank.
- The average mature oak tree sheds approximately 700,000 leaves in the fall.
- Snails move at a rate of approximately 0.000362005 miles per hour.
- A "jiffy" is an actual unit of time for 1/100th of a second.
- A typical lightning bolt is two to four inches wide and two miles long.
- The Hoover Dam was built to last 2,000 years. The concrete in it will not even be fully cured for another 500 years.

MORE INDUSTRY NEWS

AGC lauds EPA's decision to back off on new stormwater rule

The Associated General Contractors applauded the EPA's decision to temporarily withdraw limits on the amount of dirt it will allow in stormwater from construction sites. At the same time, the organization is pushing for the EPA to not impose the measure altogether.

"The fact that the EPA recognizes the serious flaws in the data supporting its efforts to impose a rigid, one-size-fits-all limit on the amount of dirt in rainwater leaving construction sites is encouraging," said AGC

Chief Executive Officer Stephen Sandherr. "Indeed, contractors are already required to take significant measures to ensure that dirt — clean, uncontaminated dirt — does not escape from project sites. Setting a specific limit on how much dirt should be in rainwater will only force contractors to spend billions more on new dirt-busting measures that may not work; expose firms to costly lawsuits from outside groups; and put them at risk of receiving tens of thousands in daily fines." ■

MINExpo less than a year away

MINExpo, the world's largest and most comprehensive show dedicated to mining is set for fall of next year. MINExpo International 2012 will be held September 24-26, 2012, at the Las Vegas Convention Center. Registration for the event opens in January.

MINExpo takes place once every four years and features companies, products and services related to the mining industry. Nearly 40,000 people from more than 100 countries are expected to attend the show, which has exhibits in 11 halls in three buildings, along with outdoor space. ■

Group highlights condition of rural roads

The national transportation research group TRIP recently released a report that details the conditions of rural America's transportation infrastructure and its impact on the country, saying 12 percent of the nation's rural roads were in poor condition, while 43 percent were in fair condition.

It also found 13 percent of the nation's rural bridges were structurally deficient, meaning there is significant deterioration of the bridge

deck, supports or other major components. Ten percent rated functionally obsolete, no longer meeting current highway design standards.

Nearly 60 percent of auto fatalities occur on rural roads, and the report cited opportunities to improve safety, such as installing wider shoulders and rumble strips. Other infrastructure needs were also highlighted. The full report is available at www.tripnet.org. ■

Required NLRB poster now available online

A new poster notifying employees of their rights under the National Labor Relations Act is available on the National Labor Relations Board's Web site and at its regional offices. Currently only available in English, nearly all private employers are required to post it.

Workplaces where at least 20 percent of the work force is not proficient in English, must also post a version in both English and a foreign language. The Board has said it will provide foreign language translations if a business requests. The website is www.nlrb.gov/poster. ■

NEWS & NOTES

Study: More than 1 in 10 bridges need repair or replacement

Eleven percent of the nation's bridges need repair or replacement, according to a Transportation for America study. The report cited 69,000 bridges in disrepair nationwide.

"For bridges, lack of maintenance can lead to the sudden closure of a critical transportation link or, far worse, a collapse that results in lost lives," the report said.

The study also highlighted the shortfall in federal funding for bridge repairs. The American Society of Civil Engineers said the U.S. needs to invest \$17 billion annually to improve current conditions. Figures in the report show the country only spends \$10.5 billion. Many states are unable to take on their share of the costs due to budget cuts and crises. ■



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2008 Barko 495, PT25735, 4,371 hrs.

\$47,000



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DOZERS

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1999 Komatsu D65EX-12, BTE1001, 5,603 hrs. \$42,700

SKID STEER

2005 CAT 262B, BCON3, 458 hrs. \$28,500

EXCAVATORS

2009 Bobcat 442E, PT25869, 365 hrs. \$69,670

2006 Komatsu PC158USLC, PP21113-1, 3,350 hrs. \$69,000

2002 Komatsu PC200LC-7B, PT18719-1, 5,613 hrs. \$91,500

FORESTRY

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