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"The Product Support People"



# DIRT TALK

A PUBLICATION FOR AND ABOUT POWER MOTIVE CUSTOMERS • 2010 NO. 3

## BRANNAN SAND AND GRAVEL

From material supply to asphalt paving and more, Denver firm hangs its hat on quality

See article inside . . .



**KOMATSU**

# A MESSAGE FROM THE PRESIDENT



Bob Davis



"The Product Support People"

Dear Valued Customer:

Signs continue to point to a recovering economy and an increase in construction activity. It's been a long time coming, and we're optimistic the upward trend will continue. As it does, the need for machinery will increase. At Power Motive, we're ready to help you find the equipment you need, whether for purchase or rental.

We believe we represent the best manufacturers in the industry and are proud to be aligned with companies such as Komatsu, which sets the bar in terms of new construction equipment features that provide efficiency and productivity. In this issue of your *Dirt Talk* magazine, read about how Komatsu is ramping up to bring those same attributes to Tier 4 engine standards, much of which go into effect January 1, 2011.

You'll also find articles on Komatsu's new D65 dozers and PC78US-8 excavator. Like other new Komatsu products, these are innovative machines designed to maximize productivity while at the same time, keeping your O&O costs in line. Some of you will look for financing to purchase these and other machines, and if that's the case, you'll be interested in the Komatsu & You feature that provides insight from Vice President & Treasurer Ben Norris on how Komatsu Financial can be of service to you.

We're always at your service as well. When you purchase or rent machinery from Power Motive, it comes with our pledge to stand behind it with well-trained and highly skilled technicians who can diagnose and fix issues, and perform routine service along with preventive maintenance. We also have the parts you need if you choose to service your equipment yourself.

Whatever your needs, please don't hesitate to call or stop by one of our locations.

Sincerely,  
POWER MOTIVE

*Bob Davis*

Bob Davis, President

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"The Product Support People"

# DIRT TALK



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## A SALUTE TO A POWER MOTIVE CUSTOMER

# BRANNAN SAND AND GRAVEL

**From material supply to asphalt paving and more, Denver firm hangs its hat on quality**

**P**Brannan Sand and Gravel does indeed sell sand and gravel, but the company's name is more a nod to its storied past than a precise description of what it does today. Today, the company is probably best known for being one of Denver's largest and most respected asphalt paving contractors.

Founded in 1906 by J.W. Brannan, Brannan Sand and Gravel was solely an aggregate producer and supplier until 1943. That's when it began offering asphalt paving services. Brannan family members continued leading the company until 1994, when they sold it to Curt Marvel. Under his leadership, the company further diversified with the acquisition of a concrete company in 1995 and a pipe/utility company in 2003. Today, the Brannan Companies consist of Brannan Sand and Gravel, Brannan Ready Mix (concrete) and Brannan Construction (pipeline/utility/tunnel boring).

"Asphalt production and paving remain our primary business," noted Equipment and Shop Division Manager Chuck Irsik. "We have three asphalt plants and six asphalt paving crews.

**Founded in 1906, Denver-based Brannan Sand and Gravel has grown from an aggregate supplier to include asphalt paving, concrete production and pipeline construction.**

Jobs range from pothole repair up to new and rehab construction of major highways — and everything in between.

"The construction division (which works throughout Colorado and the Rocky Mountain region) and the concrete division (with 40 mixer trucks) have brought a lot of stability," he added. "If one market is down, chances are, at least one of the others will be up."

Brannan Companies have been involved with almost all of the major Denver roadways and numerous other landmark projects. Among the company's many award-winning road jobs are I-25 (23rd Avenue to 48th Avenue); Colorado Boulevard (Mexico Street to Alameda Street); and C-470 (Ken Caryl Boulevard to Wadsworth Boulevard). Brannan was also involved with the construction of all of Denver's major sports complexes, including Coors Field, Invesco Field at Mile High, the Pepsi Center and Rapids Stadium. It has also had a hand in commercial projects, such as The Shops at Walnut Creek in Westminster and Park Meadows Shopping Center in Lone Tree (near Centennial).

"Whether it's supplying material, paving a road or parking area, or delivering concrete, we definitely like to be a part of high-profile jobs in the Denver area," said Irsik. "Sometimes we're the general contractor, sometimes we're a sub — it doesn't matter. Our work is a point of pride for us and quality is what we hang our hat on. We're pleased that when there's a big job, we are usually invited to participate, whether it's a local company or somebody from out-of-town. Based on our track record, we have a reputation as a company that does quality work at a fair price, and we intend to keep that reputation for as long as we're in business."





The Brannan Companies own and rent a large number of Komatsu machines for its various divisions. Here, a PC300 with a hammer breaks material at the company's recycle pit.

## Material pits

To supply its asphalt plants, paving crews and concrete operations, which consist of two stationary ready-mix plants and one portable facility, Brannan has two pits — a primary aggregate pit and a recycle pit.

"Our goal is to produce a steady supply of clean, high-quality aggregate for our asphalt and ready-mix plants," said Aggregate Production Supervisor Jim Thompson. "We do sell some material to outside firms and state or local government agencies, but the vast majority of the material we produce is for use in-house by the Brannan Companies."

Depending on time of year and demand, Brannan's primary pit in Henderson produces about 70,000 tons of material monthly.

## Equipment and support they can count on

Brannan relies heavily on Komatsu machines from Power Motive Corporation to keep its pits, plants and construction arm operating smoothly, efficiently and productively.

At work at the main quarry are a Komatsu PC400, a WA480 wheel loader and two HM350 articulated dump trucks. The company uses Komatsu WA320 wheel loaders to feed the concrete plants; a Komatsu WA500 wheel loader moves material in pit 29; and several Komatsu hydraulic excavators and skid steer loaders work primarily with the construction division.

"We started using Komatsu machines eight or nine years ago," said Irsik. "We'd been running another brand prior to that, but when we were in the market for a new wheel loader around 2001, we thought we should probably do some demos and compare prices. Komatsu performed well in the demo and was priced fairly so we decided to give it a try. Komatsu machines have been a



This operator uses a Komatsu WA480 wheel loader to feed the crusher at Brannan Sand and Gravel's aggregate pit near Brighton.



Brannan Sand and Gravel uses Komatsu HM350 (35-ton) articulated trucks to haul material at its aggregate pit.

mainstay for us ever since. They are productive, reliable units that last a long time. You can't ask for more than that."

"All of our Komatsu pieces in the pits have performed well, including those that have a lot of hours on them," added Thompson. "What I'm looking for is reliability and fuel efficiency — machines I can count on every day and that won't break me paying for diesel fuel — and that's what I get from our Komatsu machines. Our newest units are the HM350 (35-ton) articulated haul trucks. They've been really good machines, and fuel efficiency has been outstanding."

"Dealer support is also very important to us and we've been pleased with Power Motive and our salesman Tim Hoffman," added Irsik. "Tim goes out of his way to know my parts people and superintendents and I really like that. It's not all about me, it's about keeping those guys happy — and Tim and Power Motive do that. I have about 30 guys in the shop here and we do our best to do



Jim Thompson,  
Aggregate  
Production  
Supervisor

# Brannan Companies emphasize quality work

... continued

Brannan's Equipment and Shop Division Manager Chuck Irsik (left) works closely with Power Motive Sales Rep Tim Hoffman on equipment-related matters. "Dealer support is very important to us and we've been pleased with the service we get from Tim and everybody at Power Motive," said Irsik.



From its beginnings as an aggregate supplier more than a century ago, Brannan Sand and Gravel has grown considerably. It added asphalt paving after WWII, ready-mix concrete in 1995 and a pipeline construction division in 2003.

Komatsu equipment is a large part of Brannan's equipment fleet today. "What I'm looking for in equipment is reliability and fuel efficiency, and that's what I get from our Komatsu machines," said Brannan Aggregate Production Supervisor Jim Thompson.



our own services and repairs, but we also count on Power Motive for big jobs and warranty work. They do a great job whenever we call on them."

## Steady growth

Brannan has grown remarkably through the years, from a small, family-owned company to a highly diversified firm that now employs about 400 people.

"I've been here 25 years," said Irsik. "When I came, there was no concrete or construction group and we were producing about 350,000 to 400,000 tons of asphalt per year. Now, we're producing more than a million tons of asphalt annually, plus we have the ready-mix and pipeline divisions. Clearly, we've grown considerably."

He attributes that growth to the quality work that the company does day-in and day-out. "That's our bread and butter and it's why we're in demand. We do it right the first time. From the raw products to the quality of the mix to the smoothness of the finished product, we expect the best from ourselves. We compare our products, for example, the smoothness of our roads, to our competition, and we think we compare very favorably. You don't see grinding (smoothing out high spots) on jobs that we've completed."

Irsik says a few years back, a large percentage of Brannan's work was private. "We did mostly subdivisions, hospitals, commercial buildings and the like. We always did some public work such as roads and airports, but mostly we worked for developers and builders. Now that's reversed. In fact, almost all of our work right now is public. We hope that starts to even out in the months and years to come."

As for the future, continued growth and diversification remain a strong possibility.

"We never know what's down the road," observed Irsik. "I think that the company will continue to look for opportunities to expand and will do so if and when it makes economic sense. Regardless, our goal will be to deliver quality projects on time and on budget, and always put our customers first. As long as we continue to do that, we think we'll be in a good position to remain successful." ■

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## LOOKING AHEAD

# A BLUEPRINT FOR ECONOMIC GROWTH

## AGC lays out a plan to "Build Now for the Future"

**W**hile there are sparks of an economic recovery, many believe it is tenuous and needs an added boost of both confidence and dollars to firmly take hold. That's especially true in the construction industry, where investment spending has been dramatically lower in the past couple of years and unemployment is nearly double the national average.

While the American Recovery and Reinvestment Act, also known as the stimulus package, may have helped stave off an even worse crisis, there are those in the construction industry who believe it didn't go far enough. They also think that while it had some short-term effect, it doesn't address future construction or economic needs.

"The money (in the stimulus plan) will be invested over several years and much of it will be used to offset declining state and local investment," said the Associated General Contractors (AGC) of America. "In other words, the stimulus is not enough to turn around a trillion-dollar industry."

AGC's plan calls for increased infrastructure investment, as a way to jump start not just construction, but the overall economy.

Industry groups are calling for increased investment in housing, infrastructure and transportation. AGC is leading the charge with its recently released "Build Now for the Future: A Blueprint for Economic Growth." It's a comprehensive approach to rebuilding a construction industry that's seen more than 1 million workers unemployed and construction spending decline by \$193 billion last year compared to 2008, an 18-percent drop.

AGC's blueprint lays out a case that rebuilding the construction industry will boost job creation and economic growth. The document asserts that construction and infrastructure investments enhance our ability to compete globally and construction investments help improve public health and protect the environment.

"This plan outlines a series of common-sense incentives, tax credits and policy changes designed to stimulate new private- and public-sector demand for construction," said the AGC. "While these changes are critical to reversing the current crisis in the construction industry, they are also essential to rebuilding, expanding and sustaining the broader U.S. economy by raising tax revenue and creating a more efficient national infrastructure for the movement of goods and services."

### Three key areas

AGC's plan hits three key areas, including rebuilding private construction that accounts for 70 percent of construction activity. To do this, the organization calls for net operating loss carryback, repeal of the alternative minimum tax, increased tax credits for energy efficiency and extending tax cuts to preserve private capital.

It also wants to eliminate disincentives on global investments in U.S. commercial real





estate, restore “Fast Track” trade promotion authority and remove trade barriers that inflate costs. Additionally, the plan calls for extending Term Asset Backed Securities Loan Facility, which allows private investment programs to fund construction projects, and extending first-time home buyers credit.

The second key area is boosting investments in infrastructure to provide industry stability and economic efficiency. AGC wants federal investments in transportation programs to double. Revenues would come from a transition to vehicle-miles tax, a right-size federal gas tax and encouragement of public-private partnerships. Further investment in federal buildings, clean-water programs, flood control, inland waterway navigation and establishment of a national infrastructure bank are necessary.

Further funding in this area could be possible from expanding and making permanent the Build America Bonds program and adding an exemption on construction from the private activity bond cap.

The third part of AGC’s plan calls for a revision of what it terms “restrictive policies and regulations” in order to speed construction and ease costly delays. It wants to streamline environmental reviews, accelerate licensing of new nuclear power plants and establish a multiyear capital budget for public works. The organization calls for a rejection of the Clean Water Restoration Act, but encourages green construction, avoiding

government-mandated labor agreements and rescinding Buy American requirements.

### Significant return on investment

AGC believes the public will see a significant return on investment with its plan. By boosting economic activity, tax revenues will rise, offsetting some of the tax credit costs in the blueprint. By raising and modernizing user fees, establishing a Water Trust Fund and expanding public-private partnerships, revenues for infrastructure investment will rise. “The cost of inaction will be far greater than anything outlined in this plan,” said AGC.

“Every billion dollars invested in nonresidential road activity adds \$3.4 billion to the gross domestic product, increases personal earnings by \$1.1 billion and creates or sustains 28,500 jobs,” according to the group’s plan. “Almost 19,000 of those jobs would be in areas outside the immediate construction sector, including equipment manufacturing, materials supply, food service, health care and retail. In other words, the best way to generate new economic activity, increase employment across economic sectors and grow the economy is to rebuild demand for construction services.” ■

Boosting infrastructure investment would provide stability and efficiency, according to AGC’s plan.

“The plan outlines a series of common-sense incentives, tax credits and policy changes designed to stimulate new private- and public-sector demand for construction,” it said.

# LEGISLATION WEAKENS EFFORTS

## AGC says proposed climate bill undermines efforts to build greener and make infrastructure more efficient



Stephen Sandherr,  
CEO of AGC

Construction equipment, such as Komatsu's revolutionary Hybrid PC200 excavator, can play a major role in reducing the impact construction has on the environment.

Improving the efficiency of our built environment — including commercial buildings, transportation infrastructure and water systems — presents one of the greatest opportunities to reduce power consumption and cut greenhouse gas emissions. After all, the U.S. building inventory accounts for 35 percent of the nation's manmade greenhouse-gas emissions and consumes 40 percent of the nation's energy, while our aging and inefficient transportation network accounts for another 27 percent each of the energy consumption and greenhouse gas emissions.

Despite this tremendous opportunity, senators have proposed legislation that makes it harder to construct new, more energy-efficient buildings and factories, improve aging infrastructure and eliminate traffic congestion that wastes fuel and pollutes the environment. By allowing the EPA a virtually free hand to approve or deny construction and rehabilitation projects, the bill creates regulatory obstacles that will raise construction costs, delay projects and stifle demand. Worse, by taking funds raised through the proposal's new transportation fees

and committing all but a small percentage of unrelated spending, the legislation leaves our aging and inefficient roads, airways and transit systems vastly underfunded.

The inevitable consequences of this bill are higher taxes, fewer jobs, and continued reliance on wasteful buildings, inefficient infrastructure and leaky water systems. Stifling economic growth and neglecting our primary environmental challenges is not an effective way to address climate change. Instead, Congress and the Administration should focus on the measures we identify in our "Building a Green Future" plan.

Our green construction plan identifies steps public officials, developers and the construction community must take to lessen the impact of our built environment. Measures in the plan include doubling existing energy-efficiency tax credits for commercial buildings; passing the Building Star program that invests \$6 billion in improving the efficiency of commercial buildings; and speeding review and boosting tax credits for green building projects.

The plan also calls for public building projects to incorporate state-of-the-art environmental solutions and for the federal government to make pragmatic investments in research and technology. It makes it easier to launch new transit projects, shifts cargo traffic to energy-efficient barges and accelerates federal approval for new transportation projects in congested corridors. And it calls for making the level of transportation investments virtually every expert agrees is needed to improve capacity and reduce traffic.

What the senators appear to have forgotten is that you can't simply regulate a greener future, you have to build it. ■





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## NEW PRODUCTS

# NEW D65-16 DOZERS

**A long list of new features, including 6-way and sigma blade options, adds to efficiency and lowers O&O costs**

**M**ore dozing capacity and greater efficiency in a variety of applications are always an advantage. Komatsu's new D65-16 model dozers—EX, WX and PX—provide both, thanks to a long list of new features, including a Power Angle Tilt (PAT) blade and a fuel-efficient, 205-horsepower, Tier 3 engine.

Unavailable in some previous models, a six-way PAT blade can now be used on all new D65s. The hydraulic blade tilt, angling functions and manually adjustable blade pitch expand versatility and productivity in a wide range of applications. It's well balanced for light and medium dozing operations as well as providing precise grade cutting required in site prep, golf course or house pad applications. The blade is 100-percent Komatsu, and is stringently tested for durability.

"Users like the PAT blade because it rolls material forward so well, it takes less horsepower to move it," said Product Manager Bruce Boebel. "Komatsu designed the blade to keep that material rolling in front of it and away from hoses and cylinders. That extends their life and reduces maintenance costs."

Boebel said adding a PAT blade to all new D65s came about as a result of customer feedback, but it's not the only blade option. A revolutionary Komatsu SIGMA blade is available for the D65EX-16 and D65WX-16 models. It's designed for heavy dozing applications and keeps more material to the center, giving it a 15-percent boost in productivity when compared to a typical semi-U. PX and EX models can also be equipped with a straight blade.

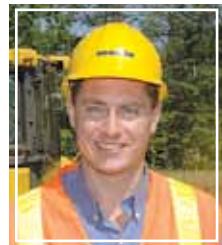
"Having blade options allows users to choose what's going to best suit their business and the type of work they do," said Boebel.

"Each blade has its particular purpose, and matching the blade to the application is a vital part of being able to move material efficiently so per-yard costs stay low."

### **Lock-up torque converter, two modes**

Power to push any blade full of material comes from a highly efficient lock-up torque converter that automatically transfers engine power directly to the transmission. The result is increased dozing speeds compared to

*Continued . . .*



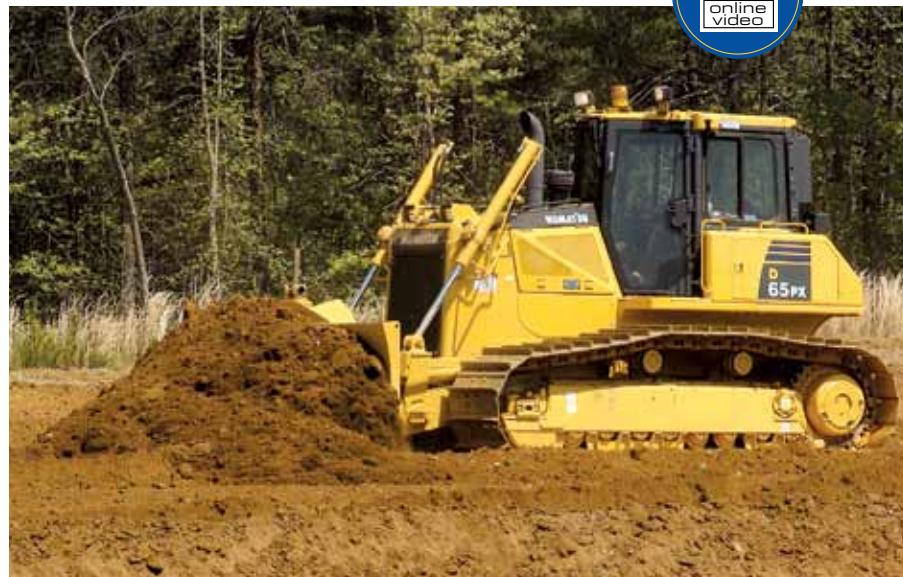
**Bruce Boebel,**  
Product Manager

#### **Brief Specs on the Komatsu D65-16 Dozer**

Model	Operating Weight	Net Horsepower
D65EX-16	43,980 lbs.	205 hp.
D65PX-16	46,960 lbs.	205 hp.
D65WX-16	45,570 lbs.	205 hp.

All new D65-16 models can be equipped with a six-way Power Angle Tilt blade that rolls materials forward, resulting in less horsepower used and better fuel efficiency. A lock-up torque converter and two-mode transmission are also new features in the Tier 3 machines.

*To see this machine in action, find this article in our online magazine at [www.PowerMotiveDirtTalk.com](http://www.PowerMotiveDirtTalk.com)*



# Longer undercarriage life, easier maintenance

... continued

previous D65 models. Operators can select from two gearshift modes, automatic and manual, to fit the appropriate application.

At the same time, in Auto mode the lock-up torque converter helps reduce fuel consumption by as much as 10 percent with the new D65s. New Power and Economy modes allow operators to match the needed performance to the job for maximum efficiency. E mode can be used for all general dozing, leveling and spreading applications, providing the right mix of speed and power for maximum fuel savings. P mode is for slot dozing, ripping or other applications requiring maximum production where engine power has priority over fuel efficiency.

"Our excavator users rave about the ability to choose modes based on work load, and it makes sense in dozing as well," stated Boebel. "If you don't need full power to get the job done, why use it? The ability to change modes to suit the application gives users added versatility. They have one machine for multiple uses."

## PLUS extends undercarriage life

The new D65-16 models come with Komatsu's Parallel Link Undercarriage System (PLUS) — the EX and WX models also have an additional foot of track on ground — that provides up to double the wear life of conventional undercarriages. The rotary bushing system virtually eliminates bushing wear, and wear

EX and WX models can be equipped with a SIGMA blade designed for heavy dozing applications. Blade visibility is better in the new D65s as the cab was designed to move the operator up and forward.



limits of the link and carrier roller are increased to balance the extended life of the bushing.

Added undercarriage life also comes from an improved, self-adjusting, idler support that applies constant downward pressure to the wear plate of the idler guide, preventing bouncing and vibration and reducing noise. It also acts as a scraper that keeps materials out. A full guarding package, designed with customer feedback, offers added durability and lower maintenance time and cost.

"The biggest cost of owning and operating a dozer is the undercarriage, and by extending its life, Komatsu is keeping that cost down," noted Boebel. "We want customers to produce with these machines for a long time to come, and the new and enhanced features we added to the undercarriage accomplish that."

## Efficient maintenance

Added efficiency in the D65-16s comes from better visibility in the larger ROPS/FOPS cab that puts the operator higher and more forward for improved sight to the blade. The cab is ultra quiet at a 75-decibel rating, and an air-ride seat and rear hydraulics are standard. A seven-inch, in-cab, color monitor allows owners and operators to track fuel consumption and idle time, as well as other functions, using Komatsu's KOMTRAX technology that comes standard and is free for the first five years.

KOMTRAX helps provide better maintenance tracking to ensure proper service intervals are met, further keeping owning and operating costs down. Komatsu's new D65 models also feature easy routine maintenance that includes daily engine checks grouped at the left-hand side of the engine compartment. A wide-core cooling package and manually reversing fan allow for quick cleaning of the radiator without leaving the cab.

"There are so many things you can point to that make these new models an upgrade over previous ones," said Boebel, who noted that the dozers can come with Topcon plug-and-play or Trimble ready. "We designed these from the ground up with a list of enhancements our customers wanted. The result is more efficient and reliable machines, which is what they asked for." ■



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## MORE NEW PRODUCTS

# NEW PC78US-8

## Compact excavator provides upgraded features that increase productivity, reduce O&O costs



David Caldwell,  
Product Manager

### Brief Specs on Komatsu's PC78US-8 Excavator

**Model**  
PC78US-8

**Operating Weight**  
16,240 lbs.

**Net Hp**  
55 hp\*

**Digging Depth**  
15 feet, 5 inches

\*Interim Tier 4  
emissions-certified engine

**A** machine that offers more horsepower, operating weight and increased digging depth at lower owning and operating costs and emissions would be a major asset to your business. Komatsu's new PC78US-8 excavator offers all that in a compact package that works well in small and mid-size applications.

The PC78US-8 replaces the PC78US-6, offering almost 400 additional pounds of operating weight. The popular long arm is now standard, offering a larger working range than the previous standard arm. A 55-horsepower, direct-injection, Interim Tier 4 engine provides better fuel efficiency without sacrificing power or productivity.

"It's a great machine for a variety of construction projects, as well as utility and landscaping jobs," said Product Manager David Caldwell. "With the tight tail swing, it's very useful in confined areas."

Using Komatsu's HydraulMind™ hydraulic system, the PC78US-8's pressure-compensating Closed Loading Sensing System (CLSS) ensures each function works according to its control input regardless of the load, giving the operator precise control. An engine-speed sensing system maintains engine speed under all

conditions, so the engine's full power potential is always available. An auto-idle feature senses when the machine is not working and reduces rpms to conserve fuel.

### Productivity features

A number of the new PC78US-8's features add to productivity, including load-sensing, automatic, two-speed travel that provides 10.7 percent faster high-speed travel. Komatsu also improved traction force by 2.6 percent, enhancing blade performance and enabling the new PC78US-8 to power through turns.

Auxiliary hydraulics and the Level 3 KOMTRAX package (Komatsu's exclusive wireless machine-monitoring system) are standard equipment. Inside the spacious cab that's 3.6 percent larger, a seven-inch, color, multifunction monitor gives the operator the ability to easily navigate between functions. The monitor allows operators to select from five working modes for power, economy, lifting, breaker and attachments; to adjust the flow rate to auxiliary attachments without leaving the cab; and to modify the heat and air conditioning for maximum comfort throughout the day.

Komatsu made maintenance easier with an engine hood that can be opened in confined spaces, a wide-opening side hood, and extended, 500-hour arm and boom lube intervals and 500-hour engine oil and filter changes. In addition, the new machine comes with a standard three-year, 3,000-hour warranty.

"Our previous PC78US-6 model was very popular because of its power and productivity in tight jobsites, and we have further improved upon that," said Caldwell. "It's a valuable addition to any fleet, especially for those contractors who do utility work, landscaping, residential and non-residential construction." ■

The new PC78US-8 has several upgrades that make it more productive and efficient in small to mid-size applications.





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## INDUSTRY IMPACT

# READY FOR NEW REGULATIONS

## Komatsu is geared up for the big leap in Tier 4 emission standards that start next year

Throughout the past several years you've heard a lot about Tier 3 emission standards for construction equipment, and chances are you have one or more machines that meet that criteria. In the next few months, the industry will shift to another gear, bringing a heavy dose of new Tier 4 standards to a large number of engines and all the compliance levels that go with them.

Tier 4 standards come in two phases, with the interim phase beginning next year and focusing on particulate matter reduction requirements. Final standards will come later and deal with oxides of nitrogen (NOx) and hydrocarbons. Tier 4 interim standards for smaller engines, ranging from 25 to 74 horsepower, are already in effect. However, OEMs have the option of skipping Tier 4 interim standards if they implement Tier 4 final standards one year ahead of schedule, in 2012.

Emission standards don't cover the type of machine, rather they apply to the horsepower of the engine, and a very large number of construction machines with engines in the 175 to 750 range will be affected when the interim phase comes in January of 2011. A year later, 75- to 174-horsepower machines will have to meet the interim phase.

So what do the new standards mean for construction machinery? Tier 4 rules cut the soot an engine can emit by 90 percent compared to Tier 3, and cut NOx by 45 percent during the interim phase. When final compliance goes into effect in 2014, NOx will have to be cut by an additional 80 percent, meaning new-machine emissions will be close to zero.

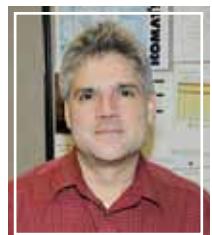
In addition, diesel machines will be required to use Tier 4-specific engine oil, use ULSD

fuel containing less than 15 ppm sulfur, and maintain emission filters. While meeting these new standards is challenging, Komatsu has already announced it's set for the new requirements to take effect.

"We were ready for Tier 3 compliance in advance, and that's also the case with Tier 4," said Senior Product Manager Chuck Murawski. "Komatsu has always been an innovator, and constantly looks for ways to not only meet current and future standards, but exceed them when possible."

### Technology behind the engines

Murawski said machine performance won't be affected, and in some cases, may actually be improved. Komatsu engineered new excavators, dozers, wheel loaders, trucks and other equipment in the new horsepower range to meet the standards without sacrificing productivity or fuel efficiency.



Chuck Murawski,  
Senior Product  
Manager

*Continued . . .*

Equipment in the 175- to 750-horsepower range, such as Komatsu's WA500-6 wheel loaders and HM400-2 articulated trucks, must meet Tier 4 interim standards beginning January 1, 2011. "Komatsu was ready for Tier 3 compliance in advance, and that's also the case with Tier 4," said Senior Product Manager Chuck Murawski.



# Komatsu steps up to Tier 4 with innovative design

...continued

Komatsu did so in a variety of ways, including a newly designed, KVGT (Komatsu variable-geometry turbocharger) that varies the air flow and delivers optimum air volume to the engine combustion chamber under all speed and load conditions. The result is cleaner exhaust gas and improved fuel economy while maintaining power and performance.

"Our initial feedback has seen more responsive machines that consume less fuel," said Murawski. "The Tier 4 machines are completely Komatsu-designed and -manufactured, including components, so we control quality and performance. All machine systems work in harmony."



Dozers such as the Komatsu D155AX-6 Sigma will be required to meet interim Tier 4 standards next year, while smaller dozers, such as the D51EX-22, have until 2012 to meet regulations.

The PC88MR-8 is equipped with a 65-horsepower engine that meets Tier 4 interim standards.



Other key features of the new technology include:

- A Komatsu-designed and -developed high-efficiency, diesel-particulate filter that captures more than 90 percent of particulate matter. The engine controller initiates passive and active regeneration automatically as needed to oxidize the particulates while the engine is running, which allows uninterrupted machine operation. A special oxidation catalyst eliminates the need for a traditional fuel burner, reducing maintenance costs and increasing reliability.
- A computer-controlled, heavy-duty High Pressure Common Rail System delivers the precise quantity of pressurized fuel into the engine combustion chamber, using multiple injections to achieve complete fuel burn and reduce exhaust emissions. Wear-resistant materials provide improved fuel-injector life.
- A heavy-duty, cooled Exhaust Gas Recirculation System, which has already proven effective in Tier 3 models, has been enhanced for increased capacity to further reduce NOx to Tier 4 levels. Larger, more robust components ensure reliable performance during demanding work conditions.
- A new fuel/air combustion chamber, located at the top of the engine piston, has a new shape designed to improve combustion and further reduce NOx, particulate matter, fuel consumption and noise.
- The engine and machine equipment function in harmony as the electronic control system performs high-speed processing of information from sensors throughout the machine. The result is reduced fuel consumption, noise, NOx and particulate matter.

"What customers get with these machines is solid production with lower emissions and less fuel consumption," said Murawski. "Komatsu technology has once again produced machines with a competitive edge." ■

## IN THE FIELD

# DEMO DAYS

## Hands-on event gives attendees opportunity to see and operate variety of equipment

Customers attending Komatsu's most recent Demo Days got the first look at new products — the GD655-5 motor grader and the D65EX-16 and D65PX-16 dozers. They were among the more than 20 pieces of equipment featured at the event held at Komatsu's Training and Demonstration Center site in Cartersville, Ga.

In addition to the motor grader and dozers (see related dozer product article), attendees operated everything from a tight-tail-swing utility excavator, such as the PC88MR-8, to the D275AX-5 dozer with Komatsu's patented Sigma blade. The Sigma is also an option on the new D65EX-16, and customers had a chance to see how it works on the smaller dozer.

"Being able to not only see, but operate any piece of equipment we have on site is a real advantage for those who attend," said Bob Post, Director of Marketing Communications and Sales Training. "We want them to walk away seeing the breadth of our product offerings and appreciating how productive Komatsu equipment is. You can only do that by getting in the cab and running the machine, which is a big part of what Demo Days is all about."

Attendees could also take advantage of educational seminars designed to help them get the most out of their machinery in productive and efficient ways. An optional tour of Komatsu's Chattanooga Manufacturing Operations, where excavators and articulated trucks are built, was available too.

Several of those products were on site to operate at Demo Days, along with wheel loaders, a crusher and a rigid-frame haul truck. For more information on any piece of Komatsu equipment, contact your sales representative or visit our nearest branch location. ■



Komatsu's newest dozers, the D65EX-16 and D65PX-16, were available to operate for the first time during Demo Days.



Attendees could operate all types of Komatsu equipment, including the new Hybrid PC200LC-8 excavator and the PC270LC-8.



In addition to operating machinery, customers could get in-depth information about Komatsu equipment from on-site product managers.

Those attending Demo Days got to see the depth of Komatsu's construction equipment line, which includes dozers, excavators, crushers, motor graders, wheel loaders and trucks.



## OFFERING FINANCING SOLUTIONS

### VP Financial Services and Treasurer Ben Norris says helping customers purchase equipment is top priority



Ben Norris,  
VP Financial Services/Treasurer

*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.*

Ben Norris has witnessed firsthand the massive growth Komatsu has undergone during the past 30 years. He's currently Vice President Financial Services and Treasurer of Komatsu America, as well as President of Komatsu Financial, a wholly owned subsidiary of Komatsu America. He's also served as Finance Sales Manager and Controller in his 25 years with Komatsu.

Ben started in finance operations after graduating with a Bachelor of Science degree in finance from Illinois State in 1984. He received his MBA in 1990 from DePaul University, and served on the 2006 National Security Forum as a civilian guest at the Air War College at Maxwell AFB in Huntsville, Ala.

As Vice President Financial Services and Treasurer, he's responsible for assets and liabilities for Komatsu America. He oversees a staff of more than 50 finance professionals who work with Komatsu distributors and customers to provide financing options for equipment purchases.

"Komatsu Financial provides support to about 20,000 Komatsu end users, as well as our distributors throughout the United States and Canada," said Norris. "That's considerably higher than when I started with Dresser Leasing, which eventually grew into Komatsu Financial. One thing I'm most proud of is that through the transition into Komatsu Financial, and especially through the peaks and valleys of the construction industry, we've consistently provided stable, cost-effective and competitive financing."

Ben and his wife, Marybeth, are celebrating 20 years of marriage and have two sons aged 18 and 13. The Norrises enjoy golf, fishing, sports and travel.

**QUESTION:** What role does Komatsu Financial play in customer purchases?

**ANSWER:** First, Komatsu Financial is interested in the success of every deal, but we're not a replacement for traditional lenders. We encourage those buying equipment to shop around and find the best rates and terms that they believe will benefit them the most. However, Komatsu Financial offers a vast array of options that equipment buyers can use to finance or lease their Komatsu machines.

Komatsu makes efficient and productive products that are cost-effective, and we believe, put more profit in our customers' pockets. Komatsu Financial wants to help ensure customers are able to purchase Komatsu pieces by providing financing solutions, whenever they're needed.

**QUESTION:** Will you only finance new Komatsu equipment?

**ANSWER:** First and foremost that's what we do. Most of our customers are buying new pieces of equipment because, again, newer models tend to be more efficient and productive. But, if a customer believes a used piece is more of an advantage to them, we'll certainly work with them. From the used side, we'll finance competitive brands as well. For instance, if a distributor took a competitive piece on trade, and a customer is interested in purchasing it, we're here to help.

**QUESTION:** What's the advantage to using Komatsu Financial?

**ANSWER:** First, Komatsu Financial offers a stable, cost-effective and viable financing solution to customers by providing core product financing of Komatsu equipment. Second, we provide the best service in the



**Komatsu Financial offers cost effective and viable financing solutions for all types of equipment.**

industry. We don't offer other types of loans or lines of credit. But because our rates and terms are in line with other lenders, customers can finance equipment with Komatsu, leaving their other sources of credit open to continue to grow their businesses.

Because equipment financing is our core business, we have been incredibly consistent throughout the years in providing affordable solutions through all types of market conditions. We understand that the construction industry has peaks and valleys, and the last couple of years would indicate that sometimes there are deep valleys. But through it all, we've maintained our book of business and haven't shied away from lending until the next peak hits. We also have more than 50 people on staff, many of whom have been here a decade or more, and they understand the industry better than anyone else.

**QUESTION: Given the current economics, there are sure to be businesses that may fall behind on payments. How do you handle those situations?**

**ANSWER:** Really, that happens in all economies for a variety of reasons. As I said, we understand there are going to be some rough times, and to be honest, there are times when we have to take a machine back. That's a last resort, however. Maybe it's just a matter of the customer waiting to get paid for a job, or the customer has work lined up months ahead but hasn't been able to start yet. It helps if the customer contacts us, and lets us know the situation. Our first priority is to work with customers to find solutions that will allow them to keep their machinery so they can continue working.

**QUESTION: What do you see ahead?**



Vice President Financial Services/Treasurer Ben Norris said Komatsu Financial's main aim is to help customers purchase new Komatsu equipment, such as the all-new D65EX-16 dozer.



According to Ben Norris, Komatsu VP Financial Services/Treasurer, the company is optimistic about the construction industry's future, and projections are for gradual growth ahead. Komatsu factories are ramping up production again, Norris noted.

**ANSWER:** We're optimistic about the construction industry going forward. We believe the industry has hit a firm bottom, and projections are for a gradual recovery and growth ahead. Our factories are ramping up again, so that as the market grows, we're in position to have the machinery ready that end users can put to work.

Those who are looking for machinery should contact their distributor first to find the right equipment to match their needs. That's the most important step in the equipment-buying process, and our distributors are excellent at doing that. Next comes financing, if needed. Komatsu distributors have strong credit or finance managers who can help buyers find financing with Komatsu Financial or an outside lender of their choice. ■



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# CLEANER FUEL

## Ultra-low-sulfur diesel now more widely available for off-road vehicles

Cleaner-burning diesel fuel is now more widely available for off-road vehicles as ultra-low-sulfur diesel (ULSD) became available at retail facilities June 1. The new fuel contains 97 percent less sulfur than previous diesel fuel, and can be used in existing engines, providing about a 10 percent reduction in emission particulates.

"(This) is another milestone for clean diesel and clean air, as our nation's farm tractors and construction machines will now have access to cleaner ultra-low-sulfur diesel fuel," said Allen Schaeffer, Executive Director of the Diesel Technology Forum. "Two-thirds of all farm and construction equipment relies on diesel engines due to their unique combination of power, fuel efficiency, economical ownership and operation, and legendary reliability and durability."

Availability of the fuel comes ahead of a big step in Tier 4 engine mandates. Beginning next year, Interim Tier 4 standards take effect for 175- to 750-horsepower engines. Diesel machinery will be required to use cleaner grades of oil and fuel in the effort to reduce particulate matter, such as nitrogen oxides and hydrocarbons.

According to the Diesel Technology Forum Web site, "This new, ultra-clean fuel is important because sulfur tends to hamper exhaust-control devices in diesel engines, much like lead once impeded the catalytic converters on gasoline cars. Just as taking the lead out of gasoline in the 1970s enabled a new generation of emissions-control technologies that have made gasoline vehicles more than 95 percent cleaner, so will removing the sulfur from diesel help usher in a new generation of clean-diesel technology."

### "Benefits are significant"

Ultra-low-sulfur diesel has been available since 2006, but as of June 1, all highway diesel fuel supplied in the U.S. must be ULSD, and at least 80 percent of fuel refined in the country for use by off-road vehicles must be ULSD, containing a sulfur content of only 15 parts per million. Schaeffer said its widespread availability will help expand opportunities for clean-diesel retrofits for off-road use in existing fleets.

"The advanced clean diesel system — combining cleaner fuel, state-of-the-art engines and effective exhaust-control technology — will play a leading role in helping cities and states meet strict new air-quality goals set by the federal government," said Schaeffer. "The benefits of the new cleaner fuel are significant." ■

Beginning June 1, all highway diesel fuel supplied in the U.S. must be ultra-low-sulfur diesel, and at least 80 percent of fuel refined in the country for use by off-road vehicles must be ultra-low-sulfur diesel. The new fuel contains 97 percent less sulfur than previous diesel fuel, and can be used in existing engines.



## MORE INDUSTRY NEWS

### Study shows theft of construction equipment a major issue

**P**Results of a recent study show more than 13,000 pieces of construction equipment were stolen last year, with towable items such as generators, welders and air compressors being the top targets. The thefts were largely committed by organized crime rings, according to the 10th Annual Construction Equipment Theft Study done by LoJack Corporation.

Newer equipment is the most common theft target because of its high resale value. While towables were the top items stolen, backhoe loaders, skid steers, wheel and track loaders

were not far behind. More than 82 percent of the pieces stolen were never recovered.

Poor on-site security, easy access to open cabs, one key that fits all and a lack of product identification numbers and records make construction equipment easy targets, according to the study. LoJack suggests labeling all equipment with unique ID numbers in several locations on the equipment, keeping accurate records, focusing on site security and using theft deterrent systems, such as wheel locks and battery disconnects. All are good practices in theft prevention and recovery. ■

### Komatsu provides assistance to Chile following quake

**A**s it did following the Haiti earthquake, Komatsu donated to the relief and cleanup efforts of the Chile quake. Komatsu donated material assistance with a focus on addressing immediate and specific needs, such as bulldozers and operators to remove debris in the streets of Santiago.

Wheel loader and light tower donation, along with fuel and operators, was part of the assistance effort in the southern areas. Komatsu also purchased water trucks to provide potable water to the victims in the worst-hit areas.

In addition, employees donated to relief funds, with Komatsu matching those donations. ■

### Lawmaker says passage of highway bill unlikely this year

**I**t may be next year before a new surface transportation bill is passed, according to a ranking member of the House Transportation and Infrastructure Committee. The previous bill, SAFETEA-LU, expired last fall, and a series of stop-gap measures and stimulus spending has provided funding for projects.

"I think we're looking at next spring, though I haven't given up on December of

this year," said Rep. John Mica, R-Fla., about the prospects of Congress passing a new bill during a meeting with transportation attorneys, according to an article in the Journal of Commerce.

An agreement is not likely before the November election, said the article, as debate over a new bill and other legislation has stalled a transportation bill's passage. ■

### New national Health Hazards Awareness Program

**A**new national Health Hazards Awareness Program for the construction industry is due out later this summer. It offers a comprehensive curriculum that covers hazards on construction projects of all types, including industrial, commercial, residential and demolition.

Presented by The Construction Safety Council, the program consists of modules focusing on topics developed around the chemical, physical and biological health hazards that may be found on construction sites. Modules can be mixed and matched to customize a program to fit a contractor's particular needs. ■



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## NEWS & NOTES

### Group says nation needs long-term, coordinated freight plan

**T**he American Association of State Highway and Transportation Officials (AASHTO) joined the chorus of organizations calling for a significant boost in highway, rail and other transportation funding in its new report, *Unlocking Freight*. It identifies key projects across the country that would improve freight delivery and dependability and offer needed relief for freight congestion, job generation and improved productivity.

"The simple fact is: no transportation, no economy," said AASHTO President Larry L. "Butch" Brown. "They are inseparable. We must invest to maintain and strengthen

the American 'transconomy.' Congress must invest in all transportation modes, from waterways to roads and rails, to get us where we need to be as a competitive nation. Millions of jobs and our nation's long-term economic health depend on it."

The report highlighted deficiencies on roads, rail, waterways, ports and other forms of freight transportation. Noting that the freight transportation system supports more than 10 million jobs, many are calling for increased national and regional investments that include all freight transportation modes. ■

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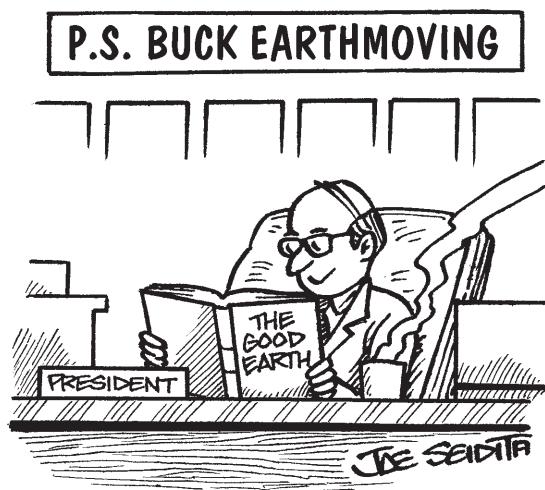
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# SIDE TRACKS

## On the light side



"You had your company's very first bulldozer bronzed?"



## 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.PowerMotiveDirtTalk.com](http://www.PowerMotiveDirtTalk.com)

1. ANPETIWORR \_\_\_\_\_
2. NITAROTC \_\_\_\_\_
3. KOBECAH \_\_\_\_\_
4. RBIYDH \_\_\_\_\_
5. TAFESY \_\_\_\_\_
6. WYGAHIH \_\_\_\_\_

" This is my house, that's why I put in the exit ramps!"



## Did you know...

- A giraffe can go without water longer than a camel can.
- A mole can dig a tunnel 300 feet long in just one night.
- On average, a person laughs about 15 times a day.
- February 1865 is the only month in recorded history not to have a full moon.
- Maine is the only state whose name is just one syllable.
- One quarter of the bones in your body are in your feet.
- Our eyes are always the same size from birth, but our nose and ears never stop growing.
- The only 15-letter word that can be spelled without repeating a letter is uncopyrightable.
- Months that begin on a Sunday will always have a Friday the 13th.
- It takes a drop of ocean water more than 1,000 years to circulate around the world.

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2007 Komatsu WA380-6, #C004544, 2,775 smr., cab, A/C, joystick control, LSD axles, 60W stereo, radials at 75-80%, 4.6-cu.-yd. GP bkt. w/teeth .....Call



1996 Komatsu D41-E6, #C004654, 4,791 smr., cab, A/C, PAT blade, MS ripper, 60% U/C .....Call



2008 Komatsu HD605-7E0, #C004392, 2,716 smr., Tier 3, fast fuel, bed liners, body heat, Lincoln auto lube, block heater, traction control.....Call

## Excavators

[2003 Komatsu PC138USLC-2](#), 5,539 smr., #C002027 .....CALL

[2002 Komatsu PC200LC-7](#), 5,063 smr., #C003503 .....CALL

[2006 Komatsu PC200LC-8](#), 4,146 smr., #C002854 .....CALL

[2006 Komatsu PC200LC-8](#), 3,399 smr., #C002853 .....CALL

[2003 Komatsu PC220LC-7](#), 3,785 smr., #C000917 .....CALL

[2004 Komatsu PC300LC-7L](#), 6,783 smr., #C000458 .....CALL

[2003 Komatsu PC308USLC-3](#), 5,402 smr., a/c, 11'6" arm, QC, 42" bkt., #C004655 .....CALL

[2004 Komatsu PC400LC-7](#), 6,229 smr., #C000871 .....CALL

[2004 Komatsu PC400LC-7](#), 5,348 smr., #9462 .....CALL

[2004 Komatsu PC400LC-7](#), 5,882 smr., #C001969 .....CALL

[2005 Komatsu PC400LC-7](#), 5,910 smr., #C002608 .....CALL

[2000 Komatsu PC600LC-6](#), 8,770 smr., #C003490 .....CALL

## Dozers

[2001 Komatsu D61EX-12](#), 6,533 smr., #C003919 .....CALL

[2001 Komatsu D61EX-12](#), 2,900 smr., #C004311 .....CALL

[2008 Komatsu D37EX-21](#), 551 smr., #C004016 .....CALL

[2006 Komatsu D39EX-21A](#), 3,010 smr., #C004684, cab, a/c, PAT blade, MS ripper, new u/c.....CALL

## Truck

[2007 Komatsu HM400-2](#), 5,188 smr., #C004134 .....CALL

[2007 Komatsu HM400-2](#), 9,800 smr., #C004220 .....CALL

[2007 Komatsu HM400-2](#), 9,832 smr., #C004206 .....CALL

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[2004 Komatsu WA250-5](#), 6,412 smr., #C004546, cab, a/c, coupler, GP bkt. w/ BOE, JRB Coupler .....CALL

[2004 Komatsu WA380-5L](#), 7,584 smr., #C002659 .....CALL

[2006 Komatsu WA380-5L](#), 4,706 smr., #C003133 .....CALL

[2006 Komatsu WA380-5L](#), 4,172 smr., #C003134 .....CALL

## Compaction

[1990 CMI-Rex 3-35](#), 4,229 smr., cab, Cummins, #1520 .....CALL

[1998 CMI-Rex 3-35C](#), 7,776 smr., #C001282 .....CALL

[2002 IR SD77F-TF](#), 1,461 smr., #C002766 .....CALL

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