

ROAD MACHINERY

KOMATSU®

ROAD TO SUCCESS

A PUBLICATION FOR AND ABOUT ROAD MACHINERY LLC CUSTOMERS

ANVIL BUILDERS INC

Determination pays off for Bay Area contractor who started business during height of recession



Alan Guy,
President



Cody Gunning,
General
Superintendent



Brian Gates,
Division
President

GOODFELLOW BROS. CALIFORNIA

Combining forces creates a top civil contracting firm



A MESSAGE FROM ROAD MACHINERY



Sloan Brooks

**Komatsu's
innovation
goes beyond
intelligence**



Dear Valued Customer:

This year marks the five-year anniversary of Komatsu's *intelligent* Machine Control debut. The first-of-its-kind technology set the bar for integrated GPS dozing, and Komatsu has since delivered a second generation of its original D61i dozers. It has also added several other models, offering customers a broad range of products to move dirt from rough cut to finish grade on a wide variety of jobsites.

Operators can do the same with Komatsu's *intelligent* Machine Control excavators. Four models are part of the family, including the second-generation PC210LCi-11. All are excellent for digging trenches and basements, building ponds, handling mass excavation work and a host of other applications. Read more about the excavators and dozers inside this issue of your Road to Success magazine.

We have said it before, but it's worth repeating – we are proud to represent such an innovative manufacturer. Komatsu's technology is at the forefront of the construction industry, and they are committed to staying ahead of the competition. That's why Komatsu is not content to rest on its laurels. The organization is always looking for ways to give customers increased value.

Superior support is one way Komatsu does that. When the company rolled out its Tier 4 machines, it also established Komatsu CARE. This program provides complimentary scheduled service for the first three years or 2,000 hours, with highly skilled distributor technicians performing all of the work. Recently, Komatsu celebrated the 100,000th service completed under this unique plan. See more about that milestone inside.

Komatsu CARE is available on *intelligent* Machine Control and standard equipment, such as the recently introduced WA480-8 wheel loader. This machine is a terrific option for construction and small quarry applications. Several great features stand out, including a new bucket design that boosts productivity by nearly 7 percent.

As always, if there's anything we can do for you, please call or stop by one of our branch locations.

Sincerely,
ROAD MACHINERY LLC



Sloan Brooks
President & COO



KOMATSU®

WWW.RMLROADTOSUCCESS.COM

ROAD TO SUCCESS

A PUBLICATION FOR AND ABOUT ROAD MACHINERY LLC CUSTOMERS

IN THIS ISSUE

GOODFELLOW BROS. CALIFORNIA pg. 4

See how this civil contracting firm relishes opportunities to take on challenging assignments.

ANVIL BUILDERS INC pg. 6

This general engineering business is carving out a niche with utility-related projects. Read the details inside this issue.

A CLOSER LOOK pg. 9

Examine the optimism regarding how the new tax law may benefit the construction industry and its employees.

GUEST OPINION pg. 11

Find out why exploring the arts can help members of your work force improve their creativity and productivity.

NEW PRODUCT pg. 13

Get an in-depth look at Komatsu's fuel-efficient, productive WA480-8 wheel loader.

SPECIAL RECOGNITION pg. 15

Review the history of Komatsu's *intelligent* Machine Control technology five years after its debut.

CUSTOMER EVENT pg. 19

Check out a recap of Demo Days where customers tested a variety of *intelligent* Machine Control equipment.

KOMATSU & YOU pg. 20

Meet Paul Moore, Vice President, Parts Sales & Marketing, who champions the importance of working proactively to meet customers' needs.

SERVING YOU BETTER pg. 23

Discover how customized protection packages improve the durability of machines working in waste-service applications.

AT YOUR SERVICE pg. 24

Komatsu CARE, a complimentary maintenance program, recorded its 100,000th service interval. See this article for the details.

INDUSTRY NEWS pg. 26

Employment data show that construction wages are increasing, while the labor market remains tight. Find out more in this issue.



KOMATSU®

Printed in U.S.A.

© 2018 Construction Publications, Inc.

THE PRODUCTS PLUS THE PEOPLE TO SERVE YOU!

EXECUTIVE TEAM

Sloan Brooks,
President & COO
Masunori (Misha) Ogawa,
Executive Vice President
Jamie Carson,
GM of Sales and Marketing

ARIZONA

Peter Lonson,
Regional Sales Manager
Ted Alonzo,
GM of Product Support

PHOENIX CORP.

926 S. 7th St.
(602) 252-7121

PRESCOTT

1071 Commerce Dr.
(928) 778-5621

PHOENIX REMAN

716 S. 7th St.
(602) 252-7121

SUPERIOR

98 West High School Rd.
(520) 689-2405

PHOENIX

902 S. 7th St.
(480) 545-2400

TUCSON

3285 E. 44th St.
(520) 623-8681

CALIFORNIA

Steve Morico,
Regional Sales Manager
Southern California
Mike Moore,
GM of Product Support

BAKERSFIELD

3501 Unicorn Rd.
(661) 695-4830

PICO RIVERA

3539 San Gabriel River Pkwy.
(562) 699-6767

FRESNO

4199 E. Jefferson Ave.
(559) 834-3215

REDDING

1164 Prestige Way
(530) 229-3820

HAYWARD

1441 Industrial Pkwy. W.
(510) 659-1903

SACRAMENTO

3650 Seaport Blvd.
(916) 375-3540

MOJAVE

15843 K St.
(661) 824-2319

SANTA ROSA

3350 Regional Pkwy.
(707) 544-4147

PERRIS

475 W. Rider St.
(909) 355-3600

Road Machinery LLC is an equal opportunity and Affirmative Action employer. We will not discriminate based on race, color, religion, sex, national origin, veteran status or disability. RML is a government contractor and subcontractor and is subject to federal provisions as required by the OFCCP.

GOODFELLOW BROS. CALIFORNIA

Combining forces creates one of the top civil contracting firms in the Golden State



Brian Gates,
Division President

On January 1, 2008, Brian Gates stepped into the role of Chief Operating Officer at Top Grade Construction – a firm his father and uncle founded 18 years earlier. At the time, the company was prospering but also experiencing some growing pains. During the previous year, the company had recorded an 80-percent expansion.

“The infrastructure just wasn’t in place to handle that much growth, so quickly,” noted Gates. “Shortly thereafter, I was asked to formally join the company in a management role. I got the dubious honor of beginning a leadership position right at the cusp of the greatest economic downturn since the Great Depression. It was humbling, but navigating through it also made the company stronger.”

As Top Grade recovered, the firm aimed its sites and capabilities higher. “We built a great culture and a business that could tackle anything,” recalled Gates. “Within a few years,

we were one of the leading contractors on the West Coast and looking to expand further with a quarry in the Central Valley, but really needed a partner to make it work. Some industry contacts put us in touch with Goodfellow Bros.”

The quarry operation never came to fruition, but as the leaders of the two companies talked about it, they realized their values and ideals lined up well. Within a few months, Goodfellow Bros. Inc. acquired Top Grade, which was eventually rebranded as Goodfellow Bros. California.

Covering several sectors

The firm is one of a handful of companies that fall under the Goodfellow Bros. Inc. umbrella, which also has operations in Oregon, Washington and on the Hawaiian Islands. It is one of the West Coast’s premiere civil contractors, providing services to customers across all markets, including residential, commercial, industrial, institutional and public works.

“For a long time, we focused primarily on the private sector,” said Gates. “That is still a fair percentage of the overall work load, and, from that standpoint, we assist developers seeking full site packages. We self-perform horizontal site demo such as removal of pavement, curb and gutter; mass excavation; grading; and asphalt paving. Utilities and some ancillary items are subcontracted, but Goodfellow Bros. California manages the entire site project.”

For the most part, the firm offers the same services to commercial, industrial and institutional customers. On the public side, it does freeway jobs such as lane widening, city street overlays and some general-engineering projects. In nearly all cases, it serves as the prime contractor.

Goodfellow Bros. California maximized production on the Chase Center project in downtown San Francisco by using the firm’s Komatsu PC650LC excavator.





A Goodfellow Bros. California operator digs with a Komatsu PC490LC excavator on a residential subdivision project in Sacramento. "Throughout the past 28 years, Komatsu has been a brand we have used on occasion; however, we have ramped up the number of Komatsu pieces during the last couple of years," said Division President Brian Gates.

With a staff of approximately 500, Goodfellow Bros. California covers nearly all of the northern part of the state, including the San Francisco/Oakland metropolitan area. In addition to its headquarters and offices in Livermore, the company has locations in Folsom and Oakland. Gates' father, Bill, is now a consultant for the firm.

Meeting challenges with Komatsu equipment

Goodfellow Bros. California has tackled a variety of challenging tasks, including removal of contaminated soil for the Chase Center, a new arena that is home to the NBA's Golden State Warriors, in downtown San Francisco. Gates describes the job as "surgical excavation" that required maximum production on a crowded site, in a relatively short time. Crews used a Komatsu PC650LC excavator to do the job.

"The PC650 is productive as well as efficient," shared Gates. "We have found that to be the case with all of our Komatsu equipment. Throughout the past 28 years, Komatsu has been a brand we have used on occasion; however, we have ramped up the number of Komatsu pieces during the last couple of years."

In addition to the PC650LC, Goodfellow Bros. California leases PC360LC and PC490LC excavators as well as WA380 and WA470 wheel loaders from Road Machinery LLC's Hayward branch with the help of Account Manager Jason Lacey. "Komatsu equipment is dependable, and Road Machinery backs it with great service,"



Road Machinery Account Manager Jason Lacey (left) calls on Goodfellow Bros. California Division President Brian Gates at his office in Livermore. "Komatsu equipment is dependable, and Road Machinery backs it with great service," reported Gates.

reported Gates. "Road Machinery and Komatsu Financial also offer attractive financing. We like that Road Machinery's technicians take care of routine service with Komatsu CARE for the first 2,000 hours or three years. That ensures the machines stay in prime working condition, so our productivity remains high."

Just scratching the surface

Goodfellow Bros. California worked on another large project that's a part of a major redevelopment at the Port of Oakland. The company's design-build team helped map out the undertaking, which includes updating and expanding infrastructure to support millions of square feet of new warehouse space.

"We want those types of jobs that utilize all of our resources, and we're taking steps to be a prime contractor in addition to self-performing even more of the work in an effort to serve our customers better," said Gates. "We are also looking at other markets, including expanding our presence in the Sacramento area. We're just scratching the surface of the opportunities that are in front of us." ■



ANVIL BUILDERS INC

Determination pays off for Bay Area contractor that started business during height of recession



Alan Guy,
President



Cody Gunning,
General
Superintendent

In 2010, Hein Manh Tran (HT), Alan Guy and Richard Leider teamed up to found Anvil Builders Inc. Instead of an office, they rented a hotel room to work from and began knocking on doors and bidding governmental projects to find work.

"We were determined," said Guy, President of Anvil. "It was just three of us for several months. We didn't have equipment, so we subbed out a lot of work. Our first job was a hard-bid, public-works project that involved energy-efficiency upgrades for low-income housing. Other companies saw our drive, how we went about our business and they talked to us about working with them."

That propelled Anvil Builders toward a diverse mix of governmental and private undertakings. Today, 60 to 70 percent of the San Francisco-based contractor's work is in the public sector. Tran is the company's Chairman Emeritus, and Leider is the Director of Business Development. Anvil covers the entire Bay Area as well as a 100-mile radius of it. The company generally has about 15 jobs going at any one time. It completed several site cleanups following the 2017 wildfires in Northern California.

"We consider ourselves a general engineering firm with a specialty in utility work," explained Guy. "During the past few years there have been quite a number of water and sewage-treatment plant projects, including new construction and rehabilitation. On those, we install all types of mechanical piping and associated items such as setting pumps and clarifiers. In addition, we do a lot of large municipal underground storm, water, sewer and electrical jobs. We self-perform nearly 90 percent of everything, including concrete

and asphalt paving, structure building and installation as well as any necessary demolition."

Focus on hiring veterans

During the past eight years, Anvil Builders has grown to a staff of more than 200 people. It runs multiple concrete, utility and emergency crews. Many of its employees are former military members, fulfilling the founders' goal for hiring veterans.

Ten years ago, Tran suffered life-threatening injuries from an improvised explosive device while serving in the U.S. Army in Iraq. He spent 15 months recovering at Walter Reed National Military Medical Center, and during that time, he decided that helping veterans find good jobs after their service would be his mission.

"HT was a member of Anvil Company in the Army, and that's where our name comes from," said Guy. "We embrace military values. From our perspective, that means we always complete our mission. Anvil goes into all jobs with a mindset that we will finish them on time and on budget. We won't leave until they are right and meet our customers' expectations."

Productive Komatsu excavators

Approximately five years ago, Anvil Builders began buying new or low-hour, used Komatsu excavators from Road Machinery LLC. The company currently owns tight-tail-swing models from PC88s to PC238s. It also runs a PC360LC-10.

"With no large counterweight, the tight-tail-swings are great for working in urban environments where space is limited," said General Superintendent Cody Gunning. "For their size, they are very productive. Our operators really like the responsiveness of



► VIDEO

Anvil Builders uses Komatsu excavators, including several tight-tail-swing models, for a wide variety of applications. "With no large counterweight, the tight-tail-swings are great for working in urban environments where space is limited," said General Superintendent Cody Gunning. "For their size, they are very productive. Our operators really like the responsiveness of the hydraulics and the speed of the Komatsu excavators. Those are big factors in why we buy, rent and continue to use Komatsu."

the hydraulics and the speed of the Komatsu excavators. Those are big factors in why we buy, rent and continue to use Komatsu."

Another is Road Machinery's service. Its technicians perform complimentary scheduled maintenance on Tier 4 machines under the Komatsu CARE program for the first three years or 2,000 hours. "That's a real added value," stated Guy. "They contact us and come out at our convenience in order to limit downtime. It fits right in with the great service that Road Machinery has always provided. Any time we need something, they respond quickly, from equipment sales or rentals to parts and service. We have built a very solid relationship."

Selective growth

Anvil Builders is working in one of the country's busiest construction markets, according to Guy. While he and the firm's other leaders have considered additional



(L-R) Anvil Builders President Alan Guy and General Superintendent Cody Gunning meet with Road Machinery General Manager Steve Asmann. "Any time we need something, Road Machinery responds quickly, from equipment sales or rentals to parts and service," said Guy. "We have built a very solid relationship."

avenues to pursue, they are cautious about expansion.

"We're open, but selective," Guy emphasized. "Growth for growth's sake is not for us. We want to control it, so that we can maintain the high level of service we are known for." ■



DISCOVER THE DIFFERENCE.

Conquer even the most inaccessible jobsites imaginable with the Terramac family of crawler carriers. Thanks to their rubber tracks, these machines boast a low ground pressure that protects sensitive ground conditions. The highly maneuverable RT6, versatile RT9 and massive RT14 are easily customizable with a range of attachments from hydroseeding units to welders, while the RT14R offers a dump bed and 360-degree rotation for offloading materials at any angle and on the go. And they're all backed by our highly trained service and support professionals, so you'll stay up and running no matter how difficult the job.

Visit **Terramac.com** to learn more or demo one today at your nearest Road Machinery location.



RT6



RT9



RT14



RT14R



Find a Road Machinery location near you!
www.roadmachinery.com/locations.html

A CLOSER LOOK

TAX LAW SPURS OPTIMISM

Lower rates and faster write-offs could provide major boost to contractors

Tax reform took firm hold this year, affecting both individuals and businesses, including major changes for some in the construction industry as Congress passed and President Trump signed H.R. 1, The Tax Cut and Jobs Act, last December. This legislation, in most cases, increased take-home pay, lowered corporate tax rates and included provisions designed to increase expensing limits.

The signature piece of the legislation may be a reduced corporate tax rate, which was slashed from 35 to 21 percent and was made permanent. Personal-services corporations are also now taxed at 21 percent.

Pass-through businesses – those that are structured to allow owners to include profits on their personal tax returns such as partnerships, S Corporations or sole proprietorships and are taxed at the individual's marginal income tax rate – received significant savings, too. A section was added to the tax code (199A) that provides a 20-percent deduction on such

income through 2025. Limitations do apply such as phase-outs at certain income levels.

“Lowering the tax rate provides substantial savings that allow us to keep more capital to invest in new equipment and pay off machinery that we have financed sooner,” said Don Satoski, President/Co-owner of Landmark Materials, LLC, of Union Mills, Ind. “Those are excellent benefits for us.”

Service businesses, including architecture and engineering firms, are eligible for a deduction, but are excluded from receiving the 20-percent deduction above \$157,000 for individuals and \$315,000 for married filing jointly. Phase-outs apply as does the expiration after 2025.

Section 179 doubled, made permanent

The Tax Cut and Jobs Act affects business expensing in a variety of ways, such as

Continued . . .

Editor's note:

This article is based on data from Associated General Contractors of America and is for informational purposes only. It does not reflect all changes under the tax law. You should seek advice from a professional tax adviser on how the legislation affects you and/or your business.



The Tax Cut and Jobs Act affects business expensing in a variety of ways, such as temporary full expensing for property currently eligible for bonus depreciation for five years. This applies to property placed in service after September 27, 2017, including new and used equipment.

Demand for construction services likely to expand

... continued

temporary full expensing for property currently eligible for bonus depreciation for five years. That applies to property placed in service after September 27, 2017, including new and used equipment.

"The tax plan is great for us, especially on equipment purchases," shared David Bussman, Vice President of MGL, Inc., a utility contractor based in Cullman, Ala. "Combine that with the zero-percent financing on the machines we bought last fall, and the savings are significant."

Section 179 Expensing – which allows taxpayers to deduct the cost of certain property types as an expense rather than being capitalized and depreciated – was permanently increased from \$500,000 to \$1 million with a \$2.5 million phase-out and is indexed to inflation. The definition of property now includes roofs as well as HVAC, fire protection, alarm and security systems added to non-residential buildings already placed in service.

Employee take-home pay rises

While the final legislation reduced nearly all tax rates for individual and married filers alike, there are still seven brackets. Two remain the same, including the lowest at 10 percent; however, the amount subject to that rate increased from \$0-9,325 to \$0-9,524 for single filers and from \$1-18,650 to \$0-19,049 for married filing jointly. Previously, income above

\$9,325 and \$18,650 would have been subject to a 15-percent rate. The 35-percent bracket also increases the amount subject to it.

All other previous tax brackets were lowered, including the top rate, which went from 39.6 percent to 37 percent. The biggest change was to the previous 28 percent rate, which dropped to 24 percent. The 15-percent and 25-percent brackets were each reduced by 3 percent to 12 and 22 percent respectively. The 33-percent rate decreased to 32 percent.

A Business Insider analysis showed the average annual pay for construction laborers is \$37,890, which made their previous federal tax \$3,645. Under the new bill, it estimates a reduction to \$2,916, for a savings of nearly 20 percent.

Along with rate changes, the standard deduction nearly doubled to \$12,000 for individuals and \$24,000 for those married filing jointly. Previously it was \$6,350 and \$12,700. The new standard deduction and tax rates are temporary and expire at the end of 2025.

Firms hiring

Now is a good time for workers seeking employment in the construction industry. Seventy-five percent of construction companies plan to expand their payrolls in 2018, according to results of an Associated General Contractors of America (AGC) survey, Expecting Growth to Continue: The 2018 Construction Industry Hiring and Business Outlook.

"Construction firms appear to be very optimistic about 2018 as they expect demand for all types of construction services to expand," said Stephen E. Sandherr, AGC's Chief Executive Officer, upon release of the survey results. "This optimism is likely based on current economic conditions, an increasingly business-friendly regulatory environment and expectations that the Trump administration will boost infrastructure investments."

There is hope that the tax law will help with the latter as it kept a provision for Private Activity Bonds, which will assist with financing transportation infrastructure as well as low-income housing and other public construction and public-private partnership projects, according to AGC. ■

Construction workers saw a boost in take-home pay, because the law reduced most tax rates and increased amounts subject to new and unchanged percentages. A Business Insider analysis showed laborers' average federal tax owed would drop by nearly 20 percent.



BUILD A HEAD OF 'STEAM'

Adding the arts to technical skills can generate more productivity, innovation

In 1871, engineer James Watt patented a steam engine that produced continuous rotary motion. Steam engines both figuratively and literally drove the Industrial Revolution and introduced the expression “build a head of steam.”

When critical pressure is applied to pistons, things happen. Construction-sector professionals and organizations must strive to achieve the same momentum by building a head of STEAM – that is, by adding the “A” to STEM, the already-developed skill levels of science, technology, engineering and mathematics.

That “A” is knowledge of and skill in the arts. The combination may seem odd to those who have a technology-focused education. But, by embracing the broad and exploratory STEAM mindset and engaging both sides of our individual and collective brains, we can generate more personal and organizational productivity, innovation and enhanced service for clients, customers and stakeholders.

Promotes better connections

A STEAM perspective provides a clearer understanding of how almost everything connects with everything else to the extent that science, technology, engineering, art and mathematics help us comprehend the increasingly complex world in which we live. The “everything is connected to everything” realization enables individuals and organizations to be more aware of the consequences of actions and empowers us to recognize many and varied opportunities.

Studies show that homogeneous teams – made up of those only STEM-skilled or only arts-oriented – tend to experience high communication effectiveness and require little time to make decisions. Unfortunately, they

may produce results that are low in creativity or innovation. In contrast, heterogeneous teams comprised of both STEM and arts members take longer to make decisions but may arrive at more creative and innovative results.

If you’re deeply into STEM by virtue of interest or vocation, on a whim, enroll in a one-day drawing class or sign up for ballroom dancing lessons. Urge deeply arts-focused colleagues to read some science and engineering articles, audit an engineering class or visit an automobile manufacturing plant. To those in leadership or management positions, help your personnel understand STEAM and how embracing it could benefit them, their employers and those they serve. Ask colleagues to share their art or STEM passions at “brown bag” lunch sessions. You and others will be surprised and inspired by the variety of talents in your midst. ■

Stuart G. Walesh, independent consultant, teacher and writer says that embracing a science, technology, engineering, arts and mathematics mindset along with engaging both sides of the brain generates more productivity and innovation.



**Stuart G. Walesh,
PhD, PE**

*Stuart G. Walesh is an independent consultant, teacher and writer who has worked in engineering, government and academia. This viewpoint is adapted from his book **Introduction to Creativity and Innovation for Engineers**. An edited version also appeared in *Engineering News-Record's* magazine in December 2017.*



KOMATSU®

WORKS FOR ME™

"THEIR FINANCE PROGRAM ROCKS!"

LANCÉ LANNOM, RACHELLE REIGARD & EDUARDO MORALES / GRADE A CONSTRUCTION / LEBANON, TN

COMPETITIVE AND FLEXIBLE

KOMATSU
FINANCIAL

"Komatsu has been a great partner for us. They've been with us through the years, even when we started small and not many other places wanted to talk to us. They believed in us and helped us grow. From a custom financing plan to tech like KOMTRAX, to customer service and Komatsu CARE, and of course reliable products—they offer everything to help our bottom line grow." **Rachelle Reigard, President**

KOMATSU®

THAT'S WHY I AM KOMATSU

komatsuamerica.com

© 2018 Komatsu America Corp. All Rights Reserved



NEW PRODUCT



Discover more

THE RIGHT FIT

New wheel loader for specialized needs offers improved production and fuel efficiency

To do a job right, an operator needs the correct equipment. For a certain set of customers, that machine is the Komatsu WA480-8 wheel loader.

“The WA480 fills a need for a select group of users,” said Komatsu Product Marketing Manager Craig McGinnis. “For them, the WA470 isn’t big enough, but the WA500 is too much. The WA500 is approximately 20 percent larger than the WA470 when it comes to horsepower, tipping and other metrics, while the WA480 is closer to 8 percent bigger, providing a much better fit.”

The 56,262-pound WA480-8 wheel loader replaces its Dash-6, Tier 3 predecessor and sports a 299-horsepower Tier 4 Final engine that delivers as much as 20 percent greater fuel efficiency. Komatsu’s dual-mode Engine Power Select System lets operators choose between two standard options: E-Mode for greater fuel efficiency during general loading or P-Mode when they require maximum power output for hard digging operations or uphill climbing. The E-Mode Light option, which is selectable from the monitor, further reduces fuel consumption.

The WA480-8 is equipped with a steering wheel, but customers can opt to replace it with Komatsu’s Advanced Joystick Steering System (AJSS), which allows operators to handle steering and directional travel through wrist and finger control.

Buckets of efficiency

Komatsu further enhanced the productivity of the WA480-8 by adding an auto-dig function that enables the machine to automatically lift the boom and curl the bucket when in a pile – a feature that was previously offered only on the larger WA500 and WA600 models. The WA480-8

also includes a redesigned bucket that is available in 6.0- or 6.5-cubic yard capacities.

“We reconfigured the curves in both the front and back of the bucket to increase productivity by as much as 7 percent compared to the previous model,” detailed McGinnis. “The design enables material to flow into the bucket easily and also helps with load retention to prevent material from spilling over the sides.”

In-cab experience

In addition to enhanced engine performance and overall design, the WA480-8 delivers upgrades that improve the operator experience. The cab boasts a low-noise design, an Electronic Pilot Control air-suspension seat, an auxiliary jack, a pair of 12-volt outlets and two 7-inch, high-resolution, color monitors. One displays machine diagnostics and menus while the other is for the rearview camera. ■



Craig McGinnis,
Komatsu Product
Marketing Manager

The new Komatsu WA480-8 has a 299-horsepower, Tier 4 Final engine that boosts fuel efficiency up to 20 percent and a redesigned bucket that increases productivity by as much as 7 percent.



KOMATSU®

WORKS FOR ME™

**"THERE'S NOTHING THIS
HI-TECH OUT THERE!"**

ANTHONY CARLTON / OWNER / CARLTON, INC / ALPINE, UT

"Using and understanding the new product technology, available from Komatsu for our business, made me apprehensive at first. But our dealer and their technical support have worked with us to help us make the tech work for our needs. I am seeing the benefits now. I'm on board and love it!"



KOMATSU®

THAT'S WHY I AM KOMATSU

komatsuamerica.com

© 2018 Komatsu America Corp. All Rights Reserved



029



Discover more

'INTELLIGENT' ANNIVERSARY

Komatsu marks five years of saving customers time, money with integrated machine-control technology

To say that Komatsu is observing the five-year anniversary of *intelligent* Machine Control is slightly misleading. While the first dozer made its debut in 2013, the genesis of its factory-integrated GPS equipment goes back much further.

"Research and development started many years earlier," shared Jason Anetsberger, Senior Product Manager, SMARTCONSTRUCTION and *intelligent* Machine Control. "Komatsu uses the

Continued . . .



Jason Anetsberger,
Komatsu Senior
Product Manager,
SMARTCONSTRUCTION
and *intelligent*
Machine Control



Mike Salyers,
Komatsu Senior
Product Manager,
SMARTCONSTRUCTION



Ron Schwieters,
Komatsu Product
Manager, *intelligent*
Machine Control



Komatsu's *intelligent* Machine Control excavators feature semi-automatic operation that goes beyond traditional indicate-only systems. Once target elevation is reached, the system limits the machine from digging deeper, eliminating overexcavation and the need for expensive fill material.



Quick acceptance results in repeat customers

... continued

PDCA (Plan, Do, Check, Act) model for continuous improvement to ensure that each machine it brings to market will meet customer expectations for productivity and support. From an *intelligent* Machine Control standpoint, that included having technology solutions experts (TSEs) at each distributor to educate customers on how to set up and implement the technology."

No masts or cables

The first model was the D61i-23 – since replaced with a second-generation D61i-24 – which ushered in fully automatic blade control from rough cut to finish grade.

Because it's integrated into the machine, *intelligent* Machine Control eliminates the masts and cables associated with traditional aftermarket systems, so operators gain production time that was previously lost in setting up and tearing down at the beginning and end of each day.

"Eliminating the need for operators to climb on the machine or blade to mount components is a big plus, too," said Mike Salyers, Senior Product Manager, SMARTCONSTRUCTION. "The bottom line is that customers are moving dirt faster, more efficiently and at lower costs."

Komatsu introduced *intelligent* Machine Control five years ago with the original D61i dozers. Today, that model is in its second generation, the D61EXi-24, pictured here.



Komatsu quickly augmented its *intelligent* Machine Control lineup. In 2014, it brought the D39i and D51i dozers to market. It has since added D65i, D85i and D155AXi models. Additionally, more than 100 TSEs are in the field to provide customers with a wide spectrum of support options.

Excavators introduced

Early 2014 saw the introduction of the world's first *intelligent* Machine Control excavator, the PC210LCi-10. PC360LCi-11s and PC490LCi-11s followed soon after, along with a PC210LCi-11 to replace the original. Komatsu recently launched the PC390LCi-11. Each features semi-automatic operation that goes beyond traditional indicate-only systems. Once target elevation is reached, the machine limits the operator from digging deeper, eliminating overexcavation and the need for expensive fill material.

"Our data indicate that *intelligent* Machine Control has been a resounding success," said Ron Schwieters, Product Manager, *intelligent* Machine Control. "As more and more customers saw the positive results, the word spread. Five years ago if you mentioned machine control, Komatsu was likely left out of the conversation. Now, we are at the forefront. This technology has changed the industry."

Today, there are more than 2,000 *intelligent* Machine Control dozers and excavators combined that are moving earth across North America. Anetsberger noted that a large percentage of users were new to GPS technology before they tried one of Komatsu's integrated machines.

"Skeptical is a good way to describe some of them," Anetsberger reported. "After they operated one and experienced its accuracy, production and simplicity, acceptance came quickly. Throughout the years, many became repeat customers. They bought one piece of *intelligent* Machine Control equipment, saw the time and material savings and added more. I think this evidence speaks volumes to the value that *intelligent* Machine Control provides business owners and operators on a daily basis." ■

KOMATSU®

SMARTCONSTRUCTION

The Komatsu PC490LCi is revolutionizing the work site. This intelligent excavator increases production, improves the profitability of other machines, saves time and doesn't need a dozer to support it.



Make the dozer work for you

Supporting an excavator with a dozer used to be necessary, but not profitable. The Komatsu PC490LCi can handle its business all by itself, now you're free to use your dozer to increase production.



Do it faster

Save an extra

31

Hours of production
time each month

372

Hours per year

46.5

8-hour work days

Conventional Construction



Material needs to be moved two times

SMARTCONSTRUCTION



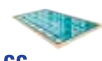
Excavator achieves both tasks



More yards

Move an extra 220,118 yards per year

That's enough to fill:



66 Olympic-size
swimming pools



4.5 National
rotundas



75 hot-air
balloons



30 Goodyear
blimps



Increased profitability

Intelligent Machine Control by Komatsu saves you



31 cents
per yard



\$31,000
per month



\$372,000
per year

KOMATSU®

**ROAD
MACHINERY**

KOMATSU®

WORKS FOR ME™

"THE TECH MAKES ME FASTER."

JEROME HAYCRAFT / ASPLIN INC. / FARGO, ND

INTELLIGENT MACHINE CONTROL

"We have a Komatsu PC210LCi and it's been better than I even expected. The speed and time you save just having your line work and not having to worry about over excavating—that's huge. I hated those bigger commercial jobs where you'd have hundreds of stakes marking all your corners, offsets and gridlines. And to not have a need for any of that, especially if it's an export site or it doesn't even really have to be, just room for your spoil piles. Keeping track of corners—major time saver! I'd say, with iMC, I'm about a third faster getting the job done."

SMARTCONSTRUCTION

KOMATSU

THAT'S WHY I AM KOMATSU

komatsuamerica.com





FULL SHOWCASE

Demo Days makes it easy for customers to test latest Komatsu equipment

More than 250 current and prospective customers attended Komatsu's spring Demo Days at its Cartersville Customer Center in Georgia. Mornings began with a tour of the Chattanooga Manufacturing Operation, where many of the Komatsu excavator models are assembled. After lunch, attendees listened to a brief informational tech session before heading to the recently renovated demonstration site to check out the latest equipment that Komatsu has to offer.

"The Demo Days event is a great opportunity for customers to see the facility and operate a wide range of Komatsu products," explained Director of Training and Publications Bill Chimley. "Customers can get first-hand experience with the newest *intelligent* Machine Control capabilities as well as a variety of our other equipment with experienced staff readily available to answer any questions."

New excavator included

The event showcased the full lineup of *intelligent* Machine Control dozers and excavators, including the new PC390LCi-11 excavator. In total, 26 machines were available for

customers to operate, including wheel loaders, haul trucks, excavators, dozers and a motor grader.

"It's a great event," said BC Construction President Ray Borges, who came from Hawaii to attend Demo Days. "There are a lot of machines to try out. Operating the equipment and seeing how it's assembled was worth the trip."

The updated demo site includes gravel walkways to increase safety between machine operation zones and permanent stairs. The various zones allow current and potential customers to test each machine to its fullest capabilities. ■



Bill Chimley,
Komatsu Director
of Training and
Publications



An attendee tests the new Komatsu PC390LCi-11 excavator and its *intelligent* Machine Control features while digging a trench during Demo Days. The PC390LCi is the most recent addition to Komatsu's extensive line of *intelligent* Machine Control dozers and excavators.

► VIDEO



The recently renovated Cartersville Customer Center features several safety updates, including new gravel walkways between working zones and permanent stairs.

ANTICIPATING YOUR NEEDS

Visits with customers give perspective for addressing future parts and service requirements



Paul Moore, Vice President,
Parts Sales & Marketing

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.

Paul Moore joined Komatsu in 2006 as a Remanufacturing Product Manager and became the Vice President, Parts Sales & Marketing in 2015. His career path to that point included two continents and several jobs in the heavy-equipment field, including in the defense industry. He started as an apprentice technician in his native United Kingdom in 1984. Six years later, he joined a global agricultural-equipment manufacturer and then moved to the United States with that company in 2000, before coming on board with Komatsu.

"Growing up on a farm, I have been around equipment my entire life," said Moore. "If you're a 'big iron' person like me, then construction and mining are the best industries to work in. Komatsu is a global leader in both, so I really enjoy being a part of a company that's setting the bar in terms of equipment and the support behind it."

Moore said parts and service have become increasingly important. "Customers base their equipment-buying decisions, in large part, on how a manufacturer and its distributors meet their after-sale needs. We are committed to being the best in the industry in that regard."

Moore is married and has two children. In his free time, he enjoys motorcycle riding and spending time with his family.

QUESTION: Parts and service support is critical to equipment users. Is Komatsu doing anything new in this area?

ANSWER: During the past two years, Komatsu focused heavily on customer engagement, being side-by-side with them at jobsites. We want to know what's working, what isn't and how Komatsu can improve its capabilities and resources, so we can anticipate their needs and proactively talk to them about solutions. We are now extending this initiative to focus on customers' needs when they are interacting at distributors' parts counters and over the phone. Our goal is to make sure Komatsu machine owners have the right parts, the first time and every time.

QUESTION: What information have you discovered in these customer visits?

ANSWER: Customers told us what they really need from Komatsu, things we can do to improve our support levels and ensure their machines continue to be productive, with as little downtime as possible. They also expect parts to be on-hand when needed. Are we always perfect? No, but customers understand that we always strive for continuous improvement, so we can show how we add value to their operations. That's our mission.

QUESTION: What are some examples of how Komatsu is working to better support customers?

ANSWER: One is our General Construction Undercarriage, which was introduced for certain mid-size PC200-300 class excavators a couple of years ago and will expand to include dozers. It offers a competitively priced Komatsu undercarriage option that is guaranteed to fit



Komatsu focuses on customer engagement to better understand owners' operations. "We want to know what's working, what isn't and how Komatsu can improve its capabilities and resources," said Paul Moore, Vice President, Parts Sales & Marketing. "Our goal is to make sure Komatsu machine owners have the right parts, the first time and every time."

the customer's machine. It's all supported by an industry-best, four-year/5,000-hour assurance program. Another example is the new Komatsu Genuine Oil. Equipment technology continues to expand and so does the need for upgraded maintenance items to keep machines running at peak performance.

In the near future, we will introduce a new online parts-ordering system that will integrate KOMTRAX data, manuals, factory campaign notices and much more information to assist with machine management activities and improve the customer's experience.

QUESTION: Earlier you mentioned being proactive. Why is that so important?

ANSWER: Think of it in terms of your own health. If you wait until you are sick to go to the doctor, recovery may take longer and cost more time and money. A regular checkup may identify a potential issue that can be addressed and taken care of quickly. Monitoring the health of the equipment, taking oil samples and performing daily walk arounds as well as having regular machine inspections by the Komatsu distributor's PSSR for example, are vital to its performance. If something shows up, it may or may not need immediate attention. If not, the owner can plan to have it fixed as soon as possible.

We also offer several parts-related programs such as Firm Future Order and zero-percent parts and service financing. Solutions such as these



Monitoring a machine's health with oil sampling, daily checks and other proactive steps is essential to its performance, according to Paul Moore, Vice President, Parts Sales & Marketing. "Think of it in terms of your own health. A regular checkup may identify a potential issue that can be addressed and taken care of quickly," said Moore.

help owners save thousands of dollars, plan for downtime, guarantee parts and technician availability and allow repair payments on a schedule that works for them. The idea is to preplan the machine maintenance and let customers lock in pricing, guarantee parts availability and schedule the work at a convenient time. We encourage customers to contact their Komatsu distributor for more information. ■

KOMATSU®

WORKS FOR ME™

**"I'VE USED THEM ALL AND
KOMATSU IS THE BEST."**

TAD GRIFFITHS / ROYAL T ENTERPRISES / UTAH

"Komatsu's i-machines definitely make my operators better at what they do. I mean, we haven't been using this technology for the past twenty years, so it's pretty new. But this tech makes it easier to do our job—makes it so that my operators can work more efficiently, and we get a better finished product."



KOMATSU®

THAT'S WHY I AM KOMATSU

komatsuamerica.com

© 2018 Komatsu America Corp. All Rights Reserved



028

SERVING YOU BETTER

CUSTOMIZED MACHINES

Modification packages for waste-handling machines add durability and make maintenance easier

Machines that work in waste-service applications like landfills, transfer stations and scrap yards encounter unique hazards every day. To keep those machines performing at optimum levels, Komatsu's Marketing Engineering Group developed specialized waste packages.

"That type of equipment requires specific modifications in order to meet job requirements," said Komatsu Marketing Engineering Group Manager Sue Schinkel. "We visited with customers to learn what they wanted and then created and implemented packages to incorporate all of those elements for each machine model."

The research led to a design that maintains accessibility and improves durability.

"Customers want machines that can stand up to their environments, yet are still easy to maintain," explained Schinkel. "The waste packages offer enhanced protection to vital components without sacrificing accessibility to service areas or machine performance."

The Marketing Engineering Group handles the full life cycle of the waste packages. This level of involvement allows the group to respond to customer feedback quickly.

"The packages are created specifically for each model by our engineers – we decide which elements are needed, design the features, develop marketing literature and continue to track performance in the field," noted Schinkel. "This is not an aftermarket add-on kit. Design, development and testing are in accordance with Komatsu engineering standards. The waste package is integrated into the base machine design, resulting in a purpose-built machine."

Dozing growth

Komatsu offers four waste packages for wheel loaders, three for excavators, and the

demand for dozer packages is growing. Komatsu currently outfits the D65-18 and D85-18 models and expects to release a waste package for the D155AX-8 in late 2018.

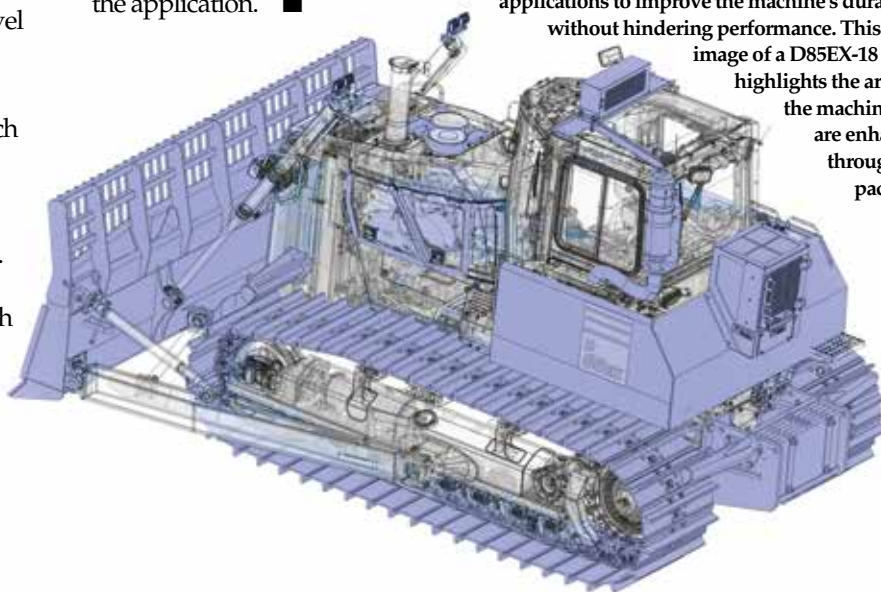
"The popularity of dozers is growing among our waste-service customers," stated Schinkel. "The package includes striker bars near the front and rear of the tracks to help clear debris, additional gap sealing to minimize the amount of material that gets into the engine compartment and a tank guard to protect the fuel and hydraulic tank."

While Schinkel says it is impossible to completely seal a machine, the packages are designed to extend the equipment's longevity and ensure that customers experience the full benefits of a Komatsu dozer. "The waste packages include many enhancements, but the most important thing is that it's a Komatsu dozer. We want to make sure it performs the way it was intended to – no matter the application." ■



Sue Schinkel,
Komatsu Marketing
Engineering Group
Manager

Waste packages are available for machines that work in landfill and other waste-service applications to improve the machine's durability without hindering performance. This CAD image of a D85EX-18 dozer highlights the areas of the machine that are enhanced through the package.





Discover more

KOMATSU CARE

Technicians complete 100,000th complimentary maintenance visit to customer's jobsite



Mike Hayes,
Director of Service
Marketing &
Distributor
Development,
Komatsu

When Komatsu's first Tier 4 construction-size machines rolled off the assembly lines in 2011, they came with Komatsu CARE, a pioneering, complimentary maintenance program providing service for the first three years or 2,000 hours of operation. This spring, the program marked its 100,000th service interval, performed on a PC228USLC-10 excavator owned by J. Fletcher Creamer & Son.

The program includes scheduled factory maintenance, oil sampling of each lubricated reservoir, a 50-point inspection at every service and up to two complimentary Komatsu Diesel Particulate Filter exchanges in the first 9,000 hours for qualified machines. Having the experts at Komatsu perform this maintenance has benefits well beyond free service.

"Komatsu CARE demonstrates our commitment to meeting customers' needs. It's the most comprehensive offering in the marketplace, and we are extremely proud of

this milestone," said Mike Hayes, Director of Service Marketing & Distributor Development for Komatsu.

More than complimentary service

"This program is an asset to us because we know that our distributor is taking care of our Tier 4 equipment," said Michael Schuhlein, Equipment Manager at J. Fletcher Creamer & Son. "With Komatsu servicing those machines, it frees us up to work on other maintenance. It makes us more efficient.

"We have 58 machines, and most of them are covered by Komatsu CARE or were under it," continued Schuhlein. "Having the experts from Komatsu in our garage keeps them familiar with our equipment, and it helps our service technicians learn and stay on top of the latest technology. Also, when a machine receives proper service at the recommended maintenance intervals, it ensures that it will reach the full potential of its life cycle." ■

Komatsu Director of Service Marketing & Distributor Development Mike Hayes (third from left) and Komatsu representatives present J. Fletcher Creamer & Son, Inc., with a certificate marking the 100,000th Komatsu CARE service interval that was performed on its Komatsu PC228USLC-10 excavator.





Scan to watch
YouTube video

Follow Dynapac North America



Your Partner on the Road Ahead

dynapac.us


www.roadmachinery.com

BAKERSFIELD, CA • (661) 695-4830
MOJAVE, CA • (661) 824-2319
PERRIS, CA • (909) 355-3600
PICO RIVERA, CA • (562) 699-6767

PHOENIX, AZ • (480) 545-2400
TUCSON, AZ • (520) 623-8681
PRESCOTT, AZ • (928) 778-5621

CONSTRUCTION WAGES RISING

AGC analysis indicates firms paying more, but labor market remains tight



Stephen E. Sandherr,
AGC CEO

An Associated General Contractors of America (AGC) analysis showed construction wages on the rise, which appears to be attracting workers to return to the industry. The organization cautioned, however, that labor conditions still remain extremely tight.

"Many firms are boosting pay and taking other steps to compete for a relatively small pool of available, qualified workers to hire," said Stephen E. Sandherr, AGC's Chief Executive Officer. "While these measures appear to be luring construction workers back to the job market, firms report they would hire additional workers if they could find enough qualified candidates."

Highest levels in past decade

The most recent data, in April, showed construction employment totaled 7,174,000, a gain of 17,000 for the month and 257,000, or 3.7 percent, throughout the last 12 months. Construction employment is at the highest level since June 2008. Association officials note that the year-over-year growth rate in industry jobs was more than triple

the 1.1 percent rise in the total nonfarm payroll employment.

Hourly wages in the industry averaged \$29.63 in April, an increase of 3.5 percent from a year earlier. That put the average hourly earnings in construction 10.4 percent higher than the average for all nonfarm private-sector jobs, which rose 2.6 percent in the past year to \$26.84, Sandherr added.

Construction officials urged federal, state and local leaders to take steps to make it easier for schools, construction firms and local associations to develop and offer construction-focused programs to recruit and prepare future workers. They noted that such measures would signal greater numbers of students that there are multiple paths to success in life.

"It is time to start showing young adults that high-paying careers in construction should be on the list of professions to consider," Sandherr said. "Too many students amass a mountain of college debt just to earn mediocre wages working in a fluorescent-lit cube farm." ■

A recent analysis by Associated General Contractors of America showed hourly earnings in the construction industry averaged \$29.63, an increase of 3.5 percent from a year earlier. That's attracting some workers back to the industry, but the market remains tight.



NEWS & NOTES

Survey shows banks opening up commercial lending

A recent Federal Reserve Board survey showed banks loosening lending policies for commercial projects. According to Construction Dive, a significant number of bank officers responding to the questionnaire said that their institutions had eased standards, in part, because of aggressive competition from other banks and nonbank lenders.

Eric Lemont, Real Estate Partner at Sullivan & Worcester in Boston, told Construction Dive last year that uncertainty around new high volatility commercial real estate (HVCRE) transaction requirements was one of the reasons. Construction loans fall under HVCRE rules, which require the lender to put aside 50 percent extra cash reserves, creating greater exposure for the lender. ■

Study reports mobile technology improves projects

Mobile technology enhances contractors' ability to collect and distribute timely and accurate jobsite data, according to a new Dodge Data & Analytics and B2W Software study. Respondents said better access to project data trends was the

top benefit to mobile connectivity. Significant numbers said it improves communication; helps with budget and scheduling, fleet management, maintenance, efficiency and uptime; and increases productivity. ■



PALADIN.
POWERFUL ATTACHMENT TOOLS

The Power of Combined Excellence®

**PALADIN OFFERS
THE WIDEST BREADTH
OF ATTACHMENT
SOLUTIONS ACROSS ALL
APPLICATIONS**

**CONSTRUCTION
MATERIAL HANDLING
VEGETATION MANAGEMENT
LAND CLEARING
LANDSCAPING
AGRICULTURE MATERIAL HANDLING
SNOW REMOVAL
ENERGY
DEMOLITION**

BRADCO CP CUSTOMWORKS CWS FFC HARLEY JEWELL J:B KODIAK McMILLEN SWEEPSTER



Division of
IES INTERNATIONAL
EQUIPMENT
SOLUTIONS

www.paladinattachments.com

ARTICULATED TRUCKS

KOMATSU

MODEL	MAX WEIGHT	PAYLOAD	CAPACITY	SPEED	H.P.	TIER
HM300	116,823 lbs	30.9 TONS	22.4 yd	36.4 mph	332	T4F
HM400	162,597 lbs	44.1 TONS	31.4 yd	34.7 mph	469	T4F

CRAWLER DOZERS

KOMATSU

MODEL	WEIGHT	BLADE	CAPACITY	BLADE WIDTH	H.P.	TIER
D39EX*	20,834 lbs	PAT	2.89 yd	8'11"	105	T4F
D39PX	21,804 lbs	PAT	3.01 yd	9'9" LGP	105	T4F
D51EX*	28,484 lbs	PAT	3.5 yd	10'0"	130	T4F
D51PX	29,145 lbs	PAT	3.8 yd	11'0" LGP	130	T4F
D61EX*	37,237 lbs	PAT	4.5 yd	10'9"	168	T4F
D61PX	41,734 lbs	PAT	5.0 yd	12'8" LGP	168	T4F
D65EX	47,355 lbs	PAT/Sig	5.9 yd	11'2"	205	T4F
D65PX	49,315 lbs	PAT/Sig	5.78 yd	13'2" LGP	205	T4F
D65EXi	49,559 lbs	PAT/Sig	5.78 yd	11'2"	205	T4F
D155	87,100 lbs	Sigma	12.3 yd	13'4"	354	T4F
D275	113,604 lbs	Sigma	17.9 yd	14'1"	449	T3
D375	157,940 lbs	Sigma	24.2 yd	15'5"	610	T3

*Machine is available with integrated GPS controls.

HYDRAULIC EXCAVATORS

KOMATSU

MODEL	WEIGHT	DIG DEPTH	CAPACITY	DIG FORCE	H.P.	TIER
PC88	18,558 lbs	15'2"	.37 yd	13,780 lbs	55	T4F
PC138	31,504 lbs	18'0"	.34 - 1.0 yd	18,300 lbs	92	T4F
PC170	37,740 lbs	20'6"	.48 - 1.24 yd	24,470 lbs	115	T4F
PC210	48,722 lbs	21'9"	.66 - 1.22 yd	29,762 lbs	165	T4F
PC210i	48,950 lbs	21'9"	.66 - 1.57 yd	29,762 lbs	158	T4F
PC228	54,405 lbs	21'9"	.66 - 1.57 yd	31,085 lbs	148	T4F
PC240	55,129 lbs	22'8"	.76 - 1.85 yd	34,171 lbs	177	T4F
PC290	70,702 lbs	22'8"	.76 - 1.85 yd	34,171 lbs	196	T4F
PC360	80,547 lbs	24'3"	.89 - 2.56 yd	51,150 lbs	257	T4F
PC490	109,250 lbs	30'2"	1.5 - 4.0 yd	53,790 lbs	359	T4F
PC800	188,670 lbs	28'3"	2.5 - 6.0 yd	72,750 lbs	487	T3

MOTOR GRADER

KOMATSU

MODEL	WEIGHT	MOLDBOARD	DRIVE	H.P.	TIER
GD655	37,346 lbs	14'0"	4WD	218	T4F

WHEEL LOADERS

KOMATSU

MODEL	WEIGHT	TIPLOAD	CAPACITY	BREAKOUT	H.P.	TIER
WA200	26,100 lbs	18,971 lbs	2.5 yd	24,251 lbs	126	T4I
WA270	28,531 lbs	20,216 lbs	3.0 yd	29,487 lbs	149	T4F
WA320	33,731 lbs	21,186 lbs	3.5 yd	36,310 lbs	165	T4F
WA380	40,532 lbs	29,630 lbs	4.0 yd	35,495 lbs	191	T4F
WA470	53,352 lbs	29,630 lbs	5.0 yd	43,163 lbs	272	T4F
WA500	79,802 lbs	54,326 lbs	8.0 - 9.8 yd	51,150 lbs	353	T4F
WA600	118,385 lbs	67,200 lbs	10.2 yd	87,230 lbs	527	T4F

CRAWLER CARRIERS

TERRAMAC

MODEL	CAPACITY	H.P.	WEIGHT	TIER
RT9	18,000 lbs	230	26,000 lbs	T3
RT14	28,000 lbs	280	32,700 lbs	T3
RT14R	28,000 lbs	320	40,000 lbs	T4F

HYDRAULIC BREAKERS

NPK

MODEL	ENERGY CLASS	CLASS	WEIGHT
PH4	1300 ft lbs	PC88	1,064 lbs
GH6	2000 ft lbs	PC138	2,150 lbs
GH7	2500 ft lbs	PC170	2,900 lbs
GH10	4000 ft lbs	PC200-290	4,200 lbs
GH12	5500 ft lbs	PC290	5,650 lbs
GH15	8000 ft lbs	PC300-360	6,800 lbs
GH18	12,000 ft lbs	PC400-490	7,800 lbs

MATERIAL PROCESSORS & SHEARS

NPK

MODEL	JAW OPENING	JAW TYPE	CLASS	WEIGHT	MAX CRUSH
M-28G	35.8 in	Pulverizing	PC200	6,850 lbs	125 tons
M-28K	25.1 in	Shearing	PC200	6,900 lbs	133 tons
M-35G	38.6 in	Pulverizing	PC300	7,544 lbs	127 tons
M-35K	22.8 in	Shearing	PC300	7,831 lbs	125 tons

DOUBLE DRUM ROLLERS

DYNAPAC

MODEL	WIDTH	WEIGHT	H.P.	TIER
CC900/950	35"	3,500 lbs	24	T4F
CC1200	47"	5,900 lbs	25	T4F
CC1300	51"	9,000 lbs	49	T4F
CC4200	66"	23,000 lbs	130	T4F
CC6200	84"	33,500 lbs	130	T4F

SINGLE DRUM ROLLERS

DYNAPAC

MODEL	WIDTH	WEIGHT	H.P.	TIER
CA1300D	54"	10,000 lbs	75	T4F
CA1400D	66"	14,000 lbs	75	T4F
CA2500D	84"	25,000 lbs	130	T4F

PAD FOOT ROLLERS

DYNAPAC

MODEL	WIDTH	WEIGHT	H.P.	TIER
CA1300DPDB	54"	10,000 lbs	75	T4F
CA1400DPDB	66"	14,000 lbs	75	T4F
CA2500/3500DPDB	84"	25,000 lbs	130	T4F
CT3000 TAMPING COMP		49,000 lbs	260	T4F

PNEUMATIC ROLLERS

DYNAPAC

MODEL	WIDTH	WEIGHT	H.P.	TIER
CP1200	69"	12.5k-28.5k lbs	74	T4F
CP2700	72"	27k-60k lbs	110	T3

CALL TODAY 1-800-989-7121

KOMATSU

DYNAPAC

NPK

CARLSON

TERRAMAC

All rates are 28 day billing cycle (one month). Rates reflect 160 hr per month / 70% overtime rate. All units with GET will be shipped with minimum 50% wear. All units will be subject to excessive tire wear and/or tire damage. All units are FOB Road Machinery Facilities.

MORE UNDERCARRIAGE OPTIONS

Komatsu General Construction product line to add new dozer replacement offering

Nearly three years ago, Komatsu introduced its competitively priced General Construction Undercarriage (GC), designed to reduce replacement costs on PC200 and PC300 excavators. The lineup will expand to dozers in 2018, with Genuine Undercarriage product replacements for D51, D61 and D65 models.

The initial excavator product release was specific to track-link assemblies. The dozer offerings will consist of conventional-style link assemblies, according to Komatsu Senior Product Manager Jim Funk, who pointed out that the GC product line fills a void for customers who prefer quality products and great support, but are looking at all options due to the status of their machine's life cycle or their business.

"Typically, a dozer's undercarriage is replaced more often than other tracked machines because of the nature of the work it does," said Funk. "Throughout the course of its life, a dozer's undercarriage will account for nearly half of owning and operating costs. We strive to provide effective and reliable undercarriage products that meet customer needs and machine situations of all types. With the continued expansion of the GC options, we are showing once again that we listen to our customers by providing products that fit their needs as well as their owning and operating targets."

Expanded lineup built to fit and last

All GC products are designed and manufactured by one of Komatsu's

three undercarriage factory, research and development facilities. "They are built to our specific quality standards," said Funk. "The heat-treat process and hardness levels are the same as with any new undercarriage. That means the GC components are interchangeable with non-GC parts, giving customers peace of mind they will be a proper fit and have the same durability as their original undercarriage. We back it with the best assurance coverage in the industry.

"We encourage anyone who is looking at undercarriage replacement options to contact their distributor or Komatsu about a GC undercarriage," Funk added. "It's a great choice at a competitive price." ■



Jim Funk,
Komatsu Senior
Product Manager –
Undercarriage

The Komatsu General Construction Undercarriage for dozers will provide another high-quality, competitively priced alternative for replacement options. They will be available for D51, D61 and D65 models.





ATTACHMENTS

NPK

NPK manufactures an extensive line of the most productive attachments, offering you a wide variety of solutions to most of your construction, demolition, recycling, mining and quarrying needs! The NPK trademark has become a symbol for quality products worldwide, including the greatest selection of hydraulic hammers, pedestal boom systems, primary/secondary crushers, scalers, compactor/drivers, and material processors.

**Please contact your
local Road Machinery Branch**

**ROAD
MACHINERY**
www.roadmachinery.com

CORPORATE - PHOENIX, AZ • (602) 252-7121
PHOENIX, AZ • (480) 545-2400
TUCSON, AZ • (520) 623-8681
SUPERIOR, AZ • (520) 689-2405
PRESCOTT, AZ • (928) 778-5621
FRESNO, CA • (559) 834-3215
PERRIS, CA • (909) 355-3600

REDDING, CA • (530) 229-3820
SACRAMENTO, CA • (916) 375-3540
SANTA ROSA • (707) 544-4147
BAKERSFIELD, CA • (661) 695-4830
HAYWARD, CA • (510) 659-1903
PICO RIVERA, CA • (562) 699-6767
MOJAVE, CA • (661) 824-2319

**Visit us on the web at
www.npkce.com**



KOMATSU®



2015 Komatsu D61EXi-23



2006 Komatsu D155AX-6



2014 Komatsu D61EX-23



2008 Komatsu WA430-6



2006 Komatsu PC600LC-8



2007 Komatsu PC400LC-7



2013 Komatsu WA470-7



2013 Komatsu PC240LC-10

USED EQUIPMENT FOR SALE

YR	MODEL	HRS	STK#	PRICE
----	-------	-----	------	-------

WHEEL LOADERS

2008	Komatsu WA430-6	14,432	65040	\$42,500
2014	Komatsu WA380-7	2,267	10321	\$142,500
2013	Komatsu WA320-7	4,263	80043	\$99,500
2013	Komatsu WA470-7	4,441	10087	\$189,500
2005	Komatsu WA450-5	8,961	A36328	\$62,500

EXCAVATORS

2015	Komatsu PC138USLC-10	1,700	42152	\$115,000
2013	Komatsu PC240LC-10	1,992	A20311	\$117,500
2014	Komatsu PC360LC-10LF	1,300	A33634	\$289,000
2014	Komatsu PC290LC-10LF	1,550	A25844	\$185,000
2012	Komatsu PC490LC-10	6,289	80009	\$149,500
2006	Komatsu PC600LC-8	10,450	30001	\$53,000
2007	Komatsu PC400LC-7	8,834	A87462	\$50,000
2003	KOBELCO SK330LC	10,000	YC06-U592	\$28,000

DOZERS

2014	Komatsu D61EX-23	1,075	30381	\$189,000
2015	Komatsu D61EXi-23	2,400	31156	\$189,500
2006	Komatsu D155AX-6	15,432	80024	\$69,500

For more information, go to www.roadmachinery.com/used-equipment or contact Used Equipment Manager Allen Stokke at (602) 509-4031 or astokke@roadmachinery.com



**WHENEVER, WHEREVER
AND HOWEVER NEEDED**

ARIZONA

Phoenix 480.545.2400

Prescott 928.778.5621

Superior 520.689.2405

Tucson 520.623.8681

Corporate 602.252.7121

CALIFORNIA

Bakersfield 661.695.4830

Fresno 559.834.3215

Hayward 510.659.1903

Mojave 661.824.2319

Perris 909.355.3600

Pico Rivera 562.699.6767

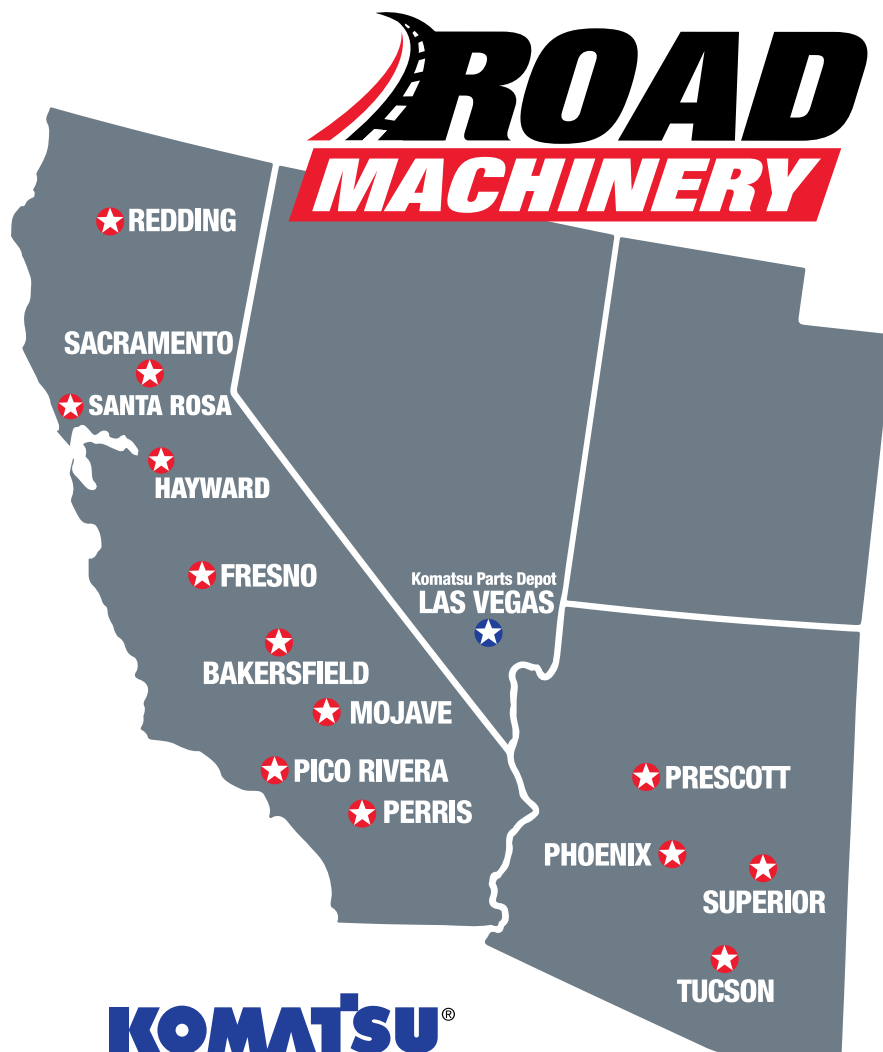
Redding 530.229.3820

Sacramento 916.375.3540

Santa Rosa 707.544.4147

**SERVING OUR CUSTOMERS
FOR OVER 60 YEARS. >>>>>**

THANK YOU TO ALL OF OUR CUSTOMERS
WHO MADE THE LAST 60 YEARS POSSIBLE.



KOMATSU®



FAYAT GROUP



an Astec Industries Company



ROADMACHINERY.COM