

# KOMATSU



Industry solutions

## Quarry & Mining



# Hydraulic excavators

Komatsu Quarry & Mining excavators are designed to balance the power needed to dig hard dense material with also being able to load mass quantities of material. Power, economy, heavy lift and swing priority work modes allow to operate this machine in the most efficient manner. Two boom mode settings and shockless boom control make work smoother and more productive.



## Rugged and proven design

Maximum toughness and durability are the cornerstones of Komatsu's design for Quarry & Mining excavators.

## Class-leading productivity

Powerful Komatsu engines, state-of-the-art hydraulic systems and first-class Komatsu comfort provide unrivalled productivity.

## A broad model range

Komatsu's Quarry & Mining excavators cover the complete range up to the 201 tonnes PC2000. And if that's not big enough, Komatsu Mining offers hydraulic mining shovels up to 790 tonnes.

## Options & attachments

A choice of booms, arms, buckets, track shoes, track roller guards, and more make a Komatsu excavator fully customisable for any Quarry & Mining task.



## GET & wear protection systems

Tooth systems and all kinds of wear protectors are available from Komatsu, providing additional protection in the toughest conditions.



## First-class comfort

The Komatsu SpaceCab™ provides a safe, comfortable and low-fatigue working environment.

## 6 working modes

With 6 working modes available Komatsu Mining & Quarry excavators always deliver the power required with the lowest fuel usage.

## Massive digging force – under fine control

Features like shockless boom control or two boom modes with “power” and “smooth” mode give the operator the flexibility to match the equipment performance to the job at hand.

## KomVision surround view system

KomVision gives the operator a constant clear view of the safety zone around the machine.



## Komatsu fuel-saving technology

Enhanced engine management, variable speed matching of engine and hydraulic pumps, adjustable auto idle shutdown, Eco-gauge, Eco guidance help to keep fuel consumption at a minimum.

## Safe access



Serrated steps, wide catwalks and large handrails allow safe and easy access to the cab and to maintenance check points.

## Easy maintenance

Inspection and maintenance points are grouped to facilitate easy engine and hydraulic component checks.

## Undercarriage

Full length track roller guards protect the undercarriage in harsh environments.





# Wheel loaders

Mining wheel loaders face harsh demands. And Komatsu mining wheel loaders meet those demands with a combination of built-in quality and reliability, high stability and easy-to-operate advanced joystick steering. High-lift booms are available for all models and allow the loading of trucks all the way up to the 300 ton class.



## Superior dumping height and reach

Long lifting frames allow enormous dumping heights and reaches making loading high feeders or trucks easy and fast.

## Rugged and proven design

Maximum toughness and durability are the cornerstones of Komatsu's Quarry & Mining machines.

## High-rigidity frames and loader linkage

The front and rear frames and the loader linkage have more torsional rigidity to secure resistance against increased stress.

## Large-capacity torque converters

By delivering high rimpull at low speeds, Komatsu large-capacity torque converters make child's play of heavy jobs such as penetration of dense material. This means higher productivity in V-Shape loading, even in confined spaces.

## High-efficiency buckets

Komatsu buckets are manufactured with high-tensile strength steel and replaceable welded wear plates for a longer life.



Additional strength has been added to the bucket bottom corners, side edges, and spill guard ends for increased durability.



## GET & wear protection systems

Tooth systems and all kinds of wear protectors are available from Komatsu brands, providing additional protection in the toughest conditions.



### First-class comfort

The Komatsu SpaceCab™ provides a safe, comfortable and low-fatigue working environment.



### Advanced joystick steering system

The advanced feedback steering system allows both steering and directional selection to be controlled by wrist and finger.



### Highest breakout force

Komatsu wheel loaders have high-tensile steel Z-bar loader linkages for maximum rigidity and maximum breakout force.

### Komatsu fuel-saving technology

Enhanced engine management, variable speed matching of engine and hydraulic pumps, adjustable idle shutdown, Eco-gauge, Eco guidance help to keep fuel consumption at a minimum.

### Safe access



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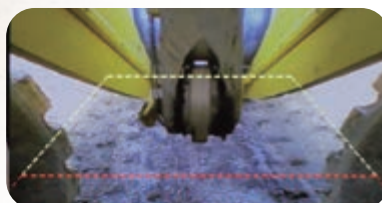
Inspection and maintenance points are grouped to facilitate easy engine and hydraulic component checks.

### Komatsu SmartLoader logic

This system limits torque during less demanding operations and reduces fuel usage without decreasing production.

### Rear-view monitoring system

The operator can view the rear working area of the machine with a full color monitor located on the right side of the cab. This monitor can be always on or only on when in reverse. Visual guidelines can be added for additional guidance.





# Dump trucks

With their powerful Komatsu engines, exceptional strength and state-of-the-art design, Komatsu dump trucks transport heavy loads quickly, easily and cost-effectively. They guarantee complete driving safety, even at high speeds. From the transmission system and chassis to the axles and suspension, all the components are designed to handle grueling daily stresses for maximum reliability.



## High-rigidity frames

Cast-steel components are used in critical areas of the main frame where loads and shocks are most concentrated.



## A broad range of models

Komatsu's rigid dump trucks cover a complete range up to the mighty HD1500-8 with a payload of 139 metric tons. For even bigger loads, Komatsu Mining offers electric dump trucks up to 360 tonnes.

## Choice of bodies

Several different types of bodies are selectable, with optional equipment for various load conditions prepared for each one.



## Automatic retarder speed control (ARSC)

ARSC allows to easily set a constant downhill travel speed and lets the operator concentrate on steering.

## Skip shift function

Automatically selects a gear position depending on the slope grade when driving uphill, without shifting down through each gear. It reduces the number of downshifts, makes driving smoother, improves operator's comfort and reduces material spillage.

## Komatsu traction control system (TCS)

Monitors for wheel spin and automatically applies independent brake assemblies for optimum traction in all ground conditions to improve productivity.



### **Payload meter (PLM)**

A PLM manages the payload of each hauling cycle and analyses the truck's production volume and working conditions for a specific period.

### **Rear-view monitor system**

The operator can view behind the vehicle on the full color monitor, located on the right side of the dashboard. This monitor can be always ON, or only when the shift lever is in the reverse position.

### **First-class comfort**

The ergonomically designed operator's compartment provides the operator a convenient control layout and comfortable environment.



### **Komatsu advanced transmission with optimum modulation control system (K-ATOMICS)**

K-ATOMICS is an electronic shift control with automatic clutch modulation in all gears. It optimises oil pressure for the clutch engagement and provides smoother shifting without torque off.

### **Safe access**

Safe cab access thanks to the low angle of the front stairways with handrails, slip-resistant.

### **Easy maintenance**



Filters and greasing points are centralized to make daily maintenance and servicing easier.

### **Small turning radius**

MacPherson strut type suspensions with a special A-arm between each wheel and the main frame provide a small turning radius.





# Crawler dozers

Komatsu mining crawler dozers are built to withstand the demands of today's mine operations while achieving the production levels required by mining companies. Automatic lock-up torque converters save fuel and increase speed and power transmission efficiency on long pushes. High tractive effort and the low drive, bogie undercarriage system turn these dozers into incredible ripping machines.



## First-class comfort

Large cabs and fully adjustable suspension seats provide a safe, comfortable and low-fatigue working environment with superior visibility on blade and ripper.



## Rugged and proven design

Maximum toughness and durability are the cornerstones of Komatsu's Quarry & Mining crawler dozers.

## Extra-low machine profile

Provides excellent machine balance and low center of gravity.

## Safe access

Features like the optional power ladder on the D375A-8 make machine access safer than ever.



## Komatsu rippers

In combination with powerful engines and high tractor weight, ripping often presents a more economical and practical solution than drilling and blasting.

## Komatsu undercarriage systems

The bogie undercarriage is built with an oscillating idler and with flexible mounted bogie systems that allow a high vertical track roller movement. The oscillating idler combined with the 8 track roller/bogie design supports and guides the undercarriage on all ground conditions for a much smoother drive and a longer undercarriage life.





### Track shoe slip control system

This system automatically adjusts output to the optimum level, thus reducing operator fatigue as well as undercarriage operating cost and fuel consumption.

### Gearshift preset function

This function reduces gear shifting time during repeated round-trip operations.

### Easy operation control

The ergonomic palm command control system (PCCS) provides efficient and comfortable control of the machine.



### Selectable working modes

Working modes can be set to either “power” for maximum power or to “economy” for energy saving operations.

### High-efficiency blade and end bit designs

Semi-U, U-blade or SIGMADOZER™ blade: Komatsu blades offer large capacity and excellent penetration, optimising high dozing performance with excellent fuel efficiency.



### Modular power train

All the power train components are enclosed in a sealed module. This eliminates oil spills during mounting and dismounting, and prevents dust and dirt polluting individual components.



## Digital assistance for a smarter quarry

Komatsu's digital assistants offer advanced solutions for equipment management and quarry optimization. Such as continuous monitoring of machine settings, helping to extend equipment life and reduce operating costs. Or offering real-time data, enabling better fleet management and operational control. The systems contribute to higher productivity and enhanced safety on-site.



### Smart Quarry Site

#### An OEM-agnostic solution to follow-up and control your whole quarry

Smart Quarry Site provides production visualisations and real-time overviews of machine movement, machine usage and production, allowing for greater control over your quarry operation and optimisation of your fleet's productivity. The pre-start inspection helps you to proactively identify and report equipment issues. Thanks to an in-cab screen, the operators get real-time feedback, further increasing operational efficiency and on-site safety.



### Smart Construction Fleet

#### An automatic productivity report, in a matter of seconds, summarising all site action

Smart Construction Fleet simplifies productivity tracking by consolidating on-site equipment data – cycle times, (un)load performance, idle rates, and more – into a single automated report. With its integrated report builder, you can quickly generate a daily (or weekly) summary that keeps everyone updated. If you're only spending seconds using Fleet, it means everything on-site is running smoothly, and the report reflects that. By eliminating the need for manual note-taking and end-of-day data entry, Fleet streamlines your workflow and helps you stay focused on your project's success.





# KOMTRAX Plus

## Equipment management support

Komtrax Plus is an advanced telematics system that continuously monitors your machine's settings, condition, fuel usage and performance along with operating practices. This comprehensive data set is designed to help prolong your quarry and mining machine's life, improve its efficiency, optimise production levels and lower operating cost.

## OFR Service

Optimum Fleet Recommendation

Understandably, it is not possible to do a test drive with mining or quarry equipment, but our application engineers provide accurate simulations to help you select the machine that fits your needs best.



# Quarry & Mining model range

## Hydraulic excavators/Mining shovels

Model	Engine power (ISO 14396)			Operating weight	Max. bucket capacity
	kW	HP	PS	kg	m <sup>3</sup>
PC490/LC-11	270	362	367	46470 - 48860	3.50
PC700LC-11	327	439	445	66110 - 69540	5.58
PC950/LC-11	405	543	551	94600 - 99800	6.50
PC1250/SP-11	578	775	786	115900 - 119500	6.70 - 7.20
PC2000-11	794	1065	1080	195000 - 201500	11.00 - 12.00
PC3000-11	940	1260	1280	257 - 264	16
PC4000-11	1400	1875	1900	398 - 409	22
PC5500-11	1880	2520	2560	537 - 556	29
PC7000-11	2500	3350	3400	682 - 700	38
PC8000-11	3000	4020	4080	759 - 790	42

## Wheel loaders

Model	Engine power (ISO 14396)			Operating weight	Bucket capacity
	kW	HP	PS	kg	m <sup>3</sup>
WA470-8	204	273	277	24170 - 25670	4.1 - 6.0
WA475-10	217	291	295	25335 - 30070	4.2 - 5.5
WA475-11	257	345	349	24740 - 26430	4.2 - 5.5
WA480-8	224	300	305	26315 - 27535	4.8 - 5.5
WA485-11	271	363	368	27940 - 28915	4.8 - 5.8
WA500-8	266	357	362	34855 - 36380	5.5 - 7.2
WA600-8	396	530	538	54170 - 56740	6.4 - 7.8
WA700-8	578	775	786	97100	8.7 - 10.3
WA800-8	638	856	867	115530	10.0 - 13.0
WA900-8	672	901	914	116400	11.5 - 14.5

## Rigid dump trucks/Direct drive & electric ("E")

Model	Engine power (ISO 14396)			Max. payload	Max. body capacity SAE	Max. travel speed
	kW	HP	PS	tons (metric)	m <sup>3</sup>	km/h
HD325-8	386	518	525	36.5	24.0	68
HD405-8	386	518	525	40	27.3	66
HD465-10	610	818	829	55.5	37.1	70
HD605-10	610	818	829	64.1	43.0	70
HD785-8	895	1200	1217	92.2	60.0	65
HD1500-8	1180	1580	1604	139	78.0 / 94.0	56.5
730E-10	1492	2000	2029	186	133	64.5
830E-5	1865	2500	2535	227	158	64.5
930E-5	2014	2700	2738	290	202	64.5
980E-5	2610	3500	3550	363	250	64.5

## Crawler dozers

Model	Engine power (ISO 14396)			Operating weight	Blade capacity	Max. blade size
	kW	HP	PS	kg	m <sup>3</sup>	mm × mm
D155AX-8	268	360	364	41690	9.40	4060 × 1880 (Sigma)
D375A-8	578	775	786	72900	22.0	5215 × 2525 (U tilt)
D475A-8	777	1040	1056	112620	34.4	6205 × 2610 (U tilt)

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