KOMATSU

WA485-11



Photos may include optional equipment.

Wheel loader

Engine power
Net 270 kW/362 HP @1600 min^{-1}

Operating weight
29202 kg

Bucket capacity
4.9 m^3 - 6.8 m^3

Higher

Komatsu - taking it



workloads lower fuel consumption lower maintenance costs

s wheel loaders to the next level of safety and economy

Increased productivity and work efficiency

- Komatsu hydraulic mechanical transmission (KHMT) for lower fuel consumption and better operability New
- Bucket with excellent digging performance New
- Increased digging force and operating capacity New
- Independent work equipment control New
- Increased climbing speed New
- Aggregate specificantion New

Improved operability

- Intuitive and simple work equipment control New
- Simple dump approach New
- Travel speed control dial New
- Auto hill holding function New



Comfortable work space

- Angle feedback joystick steering (AFJS) New
- Keyless start system New
- Newly designed cab New
- Exceptional visibility New
- Intuitive operation with command selector New
- 5-way adjustable console and integrated switches New
- Deluxe seat New

Enhanced safety

- Rear object detection system New
- Komvision monitoring system Upgrade
- LED lamps New

Simple and safe maintenance

- Powered tiltable engine hood New
- Radiator with improved ease of cleaning
- Downtime reduction New
- Maintenance-free battery
- Reduced maintenance costs New

Information and communication technology (ICT)

- 8-inch color liquid crystal display (LCD) monitor New
- ECO gauge & ECO guidance

Engine power

Net 270 kW/362 HP @1600 min^{-1}

Operating weight

29202 kg

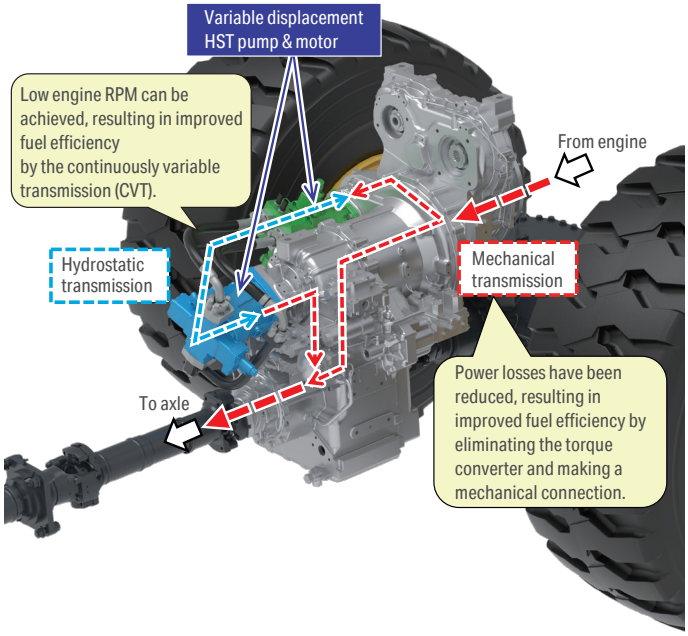
Bucket capacity

4.9 m^3 - 6.8 m^3

Productivity and workability

Highly efficient continuously variable transmission

The KHMT is consist of mechanical transmission and hydrostatic transmission (HST). By changing the displacement of the HST pump, engine speed can be maintained at a lower RPM. Changing the displacement of the HST motor, the transmission can perform stepless shifting. Pump and motor are switched depending on the situation optimally. Combining HST and the mechanical transmission provides both excellent controllability and high transmission efficiency, resulting in low fuel consumption.



Fuel efficiency (t/L)

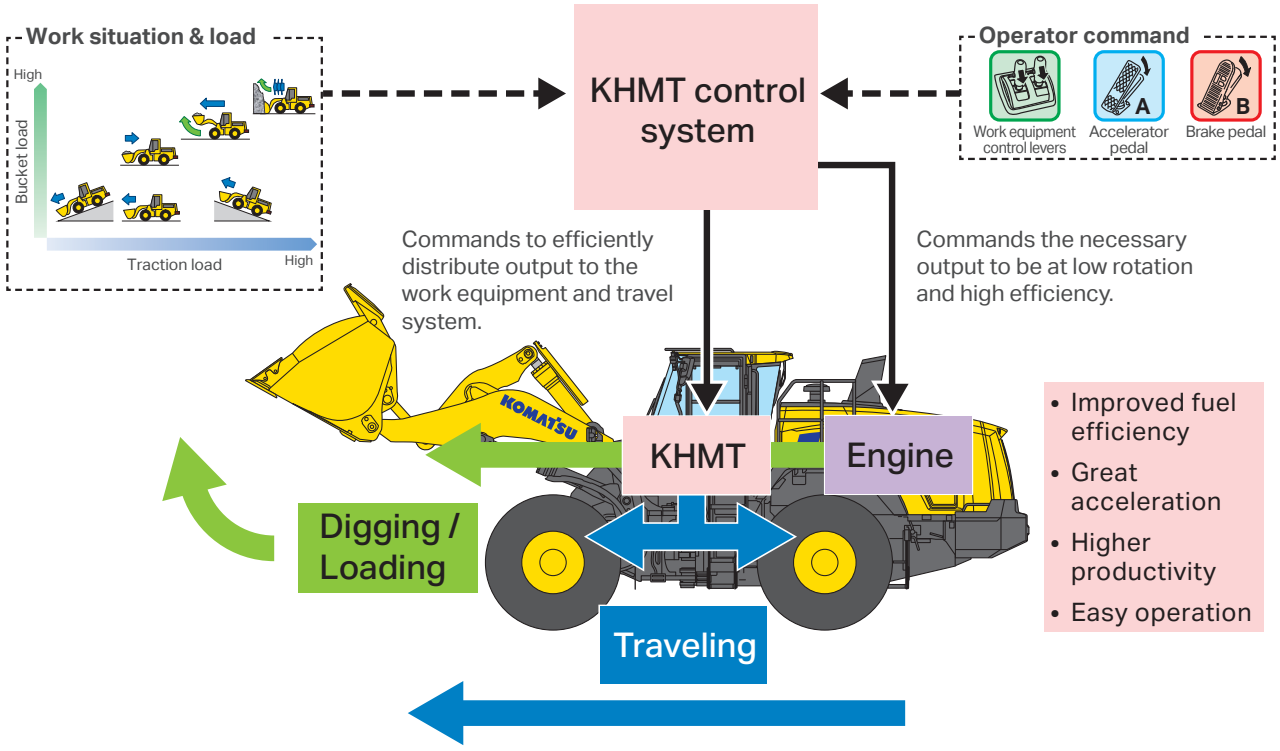
28% improvement

*Compared to WA480-8, in P mode, when load and carry.

Typical test data at Komatsu test center.

Optimized control system of KHMT New

KHMT's control system comprehensively assesses the work situation and load based on operator commands, and automatically controls power distribution to optimize acceleration, traction force, work machine power, etc. This control keeps the engine running at low speed and high efficiency, contributing to low fuel consumption. Additionally, the combination of the latest engine and KHMT provides higher output and superior acceleration performance than previous models.



Optimal shape bucket New

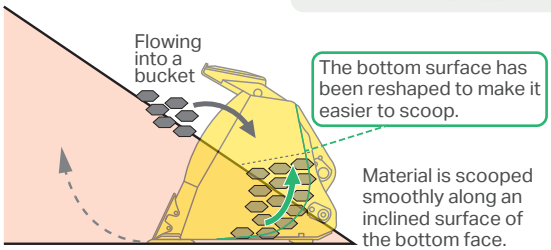
A bucket with excellent digging performance is equipped. It also has a 7% larger capacity.* The cross-sectional shape is optimally designed to make it easier to scoop up and reduce spillage, resulting in a higher bucket fill rate, and combined with the high digging force, it improves work efficiency.

Bucket capacity

5.8 m³

* With Bolt on Cutting Edge





Increased operating capacity New

The operating capacity has been increased by 12.5%,* allowing the vehicle to carry more per bucket. This brings more margin in working even with an improved fill rate due to the optimized new shape bucket.

*Compared to WA480-8

Breakout force (By lift cylinder) New

The breakout force has increased by 20% compared to WA480-8. This performance improvement further enhances productivity.

Breakout force (By lift cylinder)

+20%



Increased climbing speed

The climbing speed has been increased along with the higher engine output.

+13%

*Compared to WA480-8. In P mode on concrete road surface, 6 degree uphill.

Dumping clearance

3115 mm (BOC*)

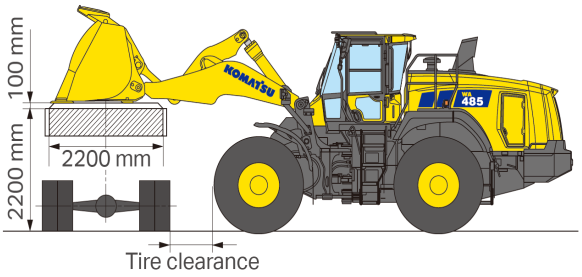
Dumping reach

1510 mm (BOC*)

Max. height of bucket hinge pin center

4500 mm

	Stock pile bucket	Loose material bucket
Bucket capacity	4.9 m³	5.5 m³
Tire size	26.5-25	
Tire clearance	880 mm	1045 mm



High function load meter New

The standard load meter has improved measurement accuracy and added convenient functions. This allows you to know the loading weight accurately and to work more efficiently.

- Automatic measurement function

This function allows the boom to automatically rise and do the measurement when you simply push the button near the work equipment lever. The boom rises at a speed suitable for the measurement. So, you can take highly accurate measurements easily.

- Dump monitoring function

When loading a truck, if the bucket becomes overloaded, the amount of load can be adjusted while checking the bucket load amount in real time on the monitor. This makes it possible to load an appropriate amount onto a truck efficiently.

- Make calibration easier

Calibration with no load can be easily done by simply pressing an automatic measurement switch for 2seconds or more before starting work each day or in between tasks, ensuring weighing accuracy. Calibration with load has also been simplified by using on-site sediment and truck scales. Dedicated calibration weights will no longer be necessary.

Auto idle stop timer setting

In order to prevent unnecessary fuel consumption the engine is switched off automatically when the engine is at an idle condition. The time to shut down can be set between 3 - 60 minutes.

Improved operability

Simple operation for work equipment New

The speed of the work equipment can be controlled using only the operating lever. The engine speed is optimally controlled according to the operation of the work equipment lever without pressing the accelerator pedal.

- Work equipment control levers

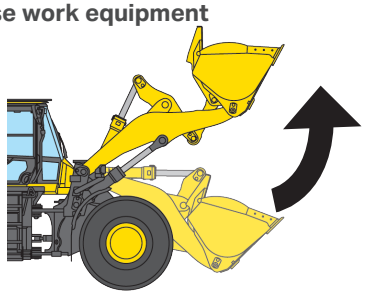


- Accelerator pedal



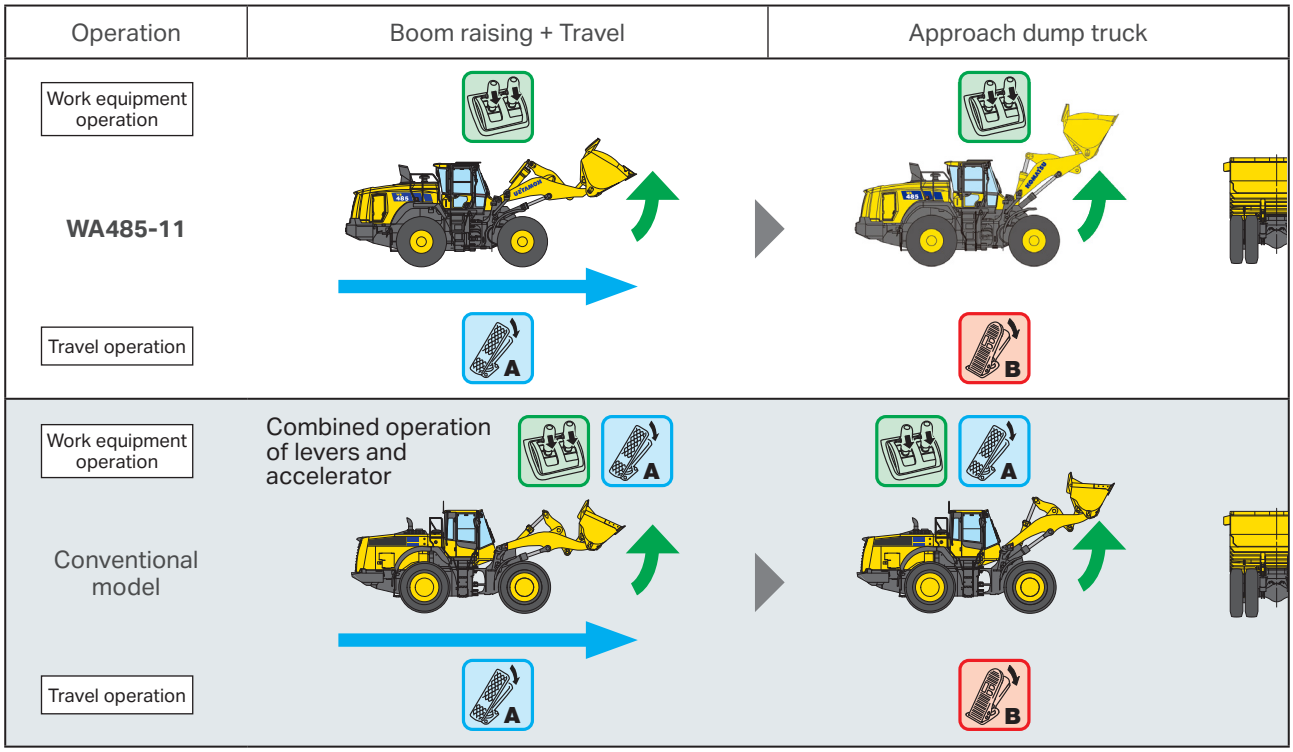
- Brake pedal



Operation	**Raise work equipment** 
WA485-11	**Only operation of work equipment control levers**  Control speed by lever angle
Conventional model	**Combined operation of work equipment**  Control work equipment speed by accelerator

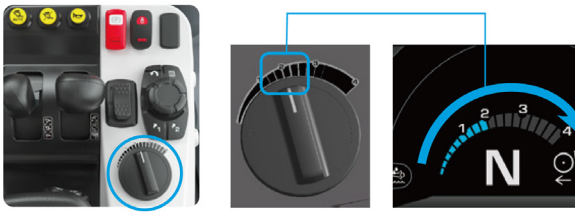
Easy approach New

The speed of the work equipment can be controlled only with the work equipment lever, and the accelerator pedal work can be focused on controlling travel, so even when operating the work equipment and travel at the same time, such as when loading to a dump truck, there is no need to press the accelerator and the brake pedal at the same time. This makes compound operations incredibly easy. It also improves fuel efficiency by eliminating brake drag.



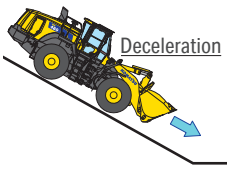
Travel speed control dial New

The maximum travel speed can be adjusted with the travel speed control dial. It is effective for V-shape loading, flat ground driving, and downhill driving, reducing the burden on the operator to control vehicle speed.



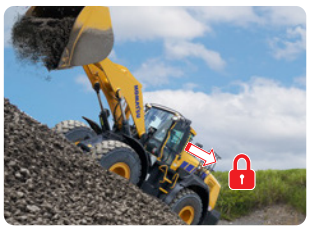
Downhill

The travel speed can be adjusted using the travel speed control dial. This allows the machine to travel downhill at a constant speed, preventing the load from spilling out of the bucket. This also has the effect of preventing the brakes from overheating.



Auto hill holding function New

Auto hill holding function prevents the vehicle from sliding downhill even if operator doesn't apply the brakes on a slope. Effective for pilling up work, etc., it makes the loader operation easier and contributes to reducing operator fatigue.



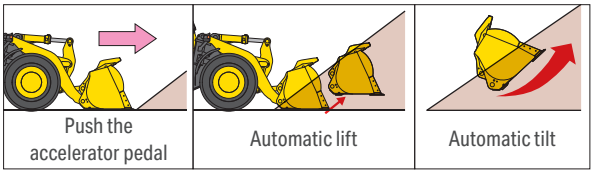
Max power switch New

If the max power switch is pressed while the traction control is ON, setting of the traction control is temporarily canceled and the traction force increases. In addition, when the max power switch is pressed during E-mode, power mode setting is temporarily changed from E mode to P mode, and traction force increases. Setting of the traction control and power mode are restored when the max power switch is pressed again or the directional lever is moved. This switch is effective when large traction force is required in pile up work and travel uphill, etc



Automatic digging system New

New automatic digging system actuates the bucket tilt and lifting operations by detecting the sensing pressure applied to the work equipment. This system can alleviate operator fatigue and realize the ideal load capacity.



Remote boom positioner

The operator can set the stopping angle of boom in both raise and lower directions from the cab. Once the positioner is set, the boom is stopped at the position with no shock. The bucket stopping height can be adjusted to match the dump vessel height, contributing to safe and easy work.

Bucket control switch Upgrade

With the functions of the bucket control switch, the operator can set the bucket to any angle swing the bucket without using the bucket control lever. When the operator presses the bucket control switch, the bucket moves to the set position.







Operator environment

Newly designed cab New

A pressurized, large, pillar-less cab provides a quiet operator environment with impressive visibility. Visibility is improved by adding a lower glass area and eliminating the rear pillar. It contributes to comfortable operation together with the newly designed console. In addition, the outside air intake type, fully automatic, large-capacity air conditioner is installed as standard. It keeps the inside of cab comfortable all year round.

Front & rear cab glass surface area (m^2)

+21%

*Compared to WA480-8



Exceptional visibility New

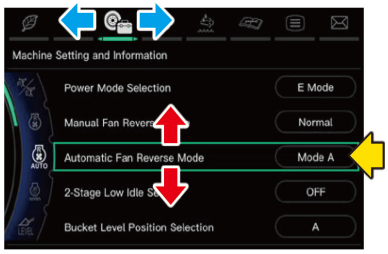
The interior is newly designed and a glass area is added to the lower position of the front corner of the cab and side door. The areas around the wheels can now be visually checked easily.



Command selector New

A command selector was newly introduced for operating the main monitor, allowing for intuitive operation. In addition, shortcut switches can be set for frequently used menus.





New design operator seat New

The newly designed seat is based on ergonomics, supporting comfortable operation for long periods of time even in harsh work environments.

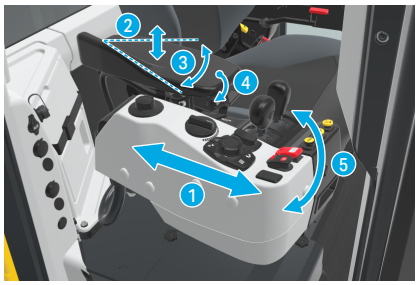
Deluxe seat New

A deluxe seat is available, made of luxurious fabric and genuine leather. It also has a three-stage adjustable heater function and the ability to adjust both side holds on the seat and backrest. It is equipped with a cooler function (Three-stage adjustment) that sends cooled air to the area where the body and seat come into contact to eliminate stuffiness and heat build-up, providing a more comfortable environment for all operators. (When angle feedback joystick steering (AFJS) is selected, the deluxe seat is automatically selected.)



5-way adjustable console and integrated switches New

A new 5-way adjustable console is adopted to suit various types of operator posture.
And switches for frequent use during operation are integrated into R.H. console and front pillar. Operator can access these switches without changing posture.
The switches are equipped with a pilot lamp and are easy to see even in night.



1. Console fore/aft
2. Armrest height
3. Armrest swing New
4. Armrest tilt New
5. Console tilt New



New steering column New

The operator can easily adjust the steering column angle with a pedal. The steering column is flip up type and set in the storage position in order to secure foot space when the operator gets on and off the machine.



Multifunction audio New

It has functions of AM/FM radio, AUX and Bluetooth® wireless technology enabled products can be connected. A hands-free microphone is equipped as standard.

Large utility space (L.H.) New

Multi-purpose space is secured on the left side of seat. A drink holder is installed. A large cooler box can be placed on the floor.

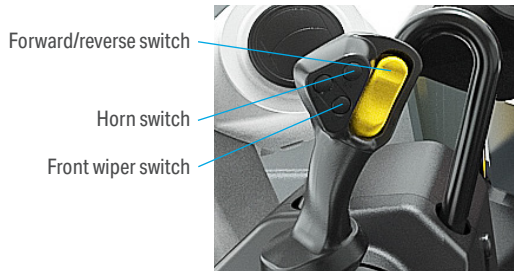


Comfortable work space

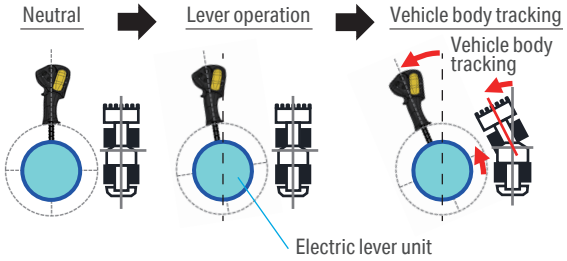
Angle feedback joystick steering (AFJS) New

AFJS, which articulates the vehicle body according to the tilt angle of the joystick, is available as a standard. By adopting a control system that converts the amount of joystick operation into electrical signals, it achieves a smooth steering feel and reduces operating force and wrist strain. While improving the responsiveness from the conventional Komatsu steering, we have achieved intuitive and easy-to-understand operations by applying reaction force to the joystick lever. Additionally, operator fatigue due to lever operation has been significantly reduced compared to conventional models*.

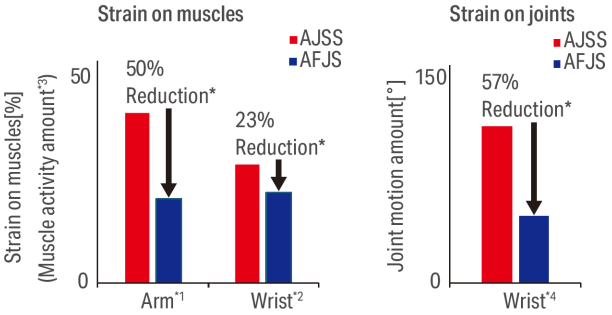
*Compared to WA475-10 advanced joystick steering system (AJSS)



• Vehicle movement matches the angle of the lever



Fatigue reduction effect confirmed in in-house testing



Fatigue reduction confirmation test results (18 persons · times * : $p < 0.1$)

*1 Brachioradialis muscle (Supporting muscle of elbow movement)

*2 Extensor carpi radialis (Wrist movement muscle)

*3 Reference voluntary contraction:% Reference voluntary contraction

*4 Wrist flexion/extension

Supervised by H.Tsujimura, ME, PhD, Shiga University of Medical Science

Work equipment control levers New

Ergonomically shaped levers and a switch layout that eliminates the need to change grips reduce fatigue caused by prolonged operation.



Standard accessories to make work more comfortable

1. Smartphone holder
2. External input (AUX) jack
3. 12 V power outlet socket
4. Space for instruction manual storage (Under upper cover)
5. Magazine rack

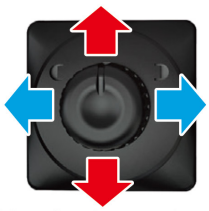


Mono-lever with integrated 3rd spool control (Optional) New

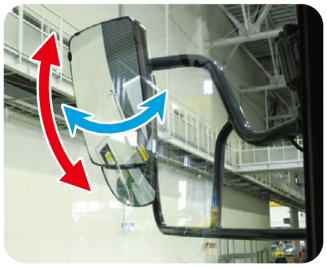
The mono-lever is integrated with a optional 3rd spool control switch and a directional selector switch which can be controlled with your thumb. This lever improve ease of operation. The 3rd spool control can be selected from either continuous mode or proportional flow mode.

Electric mirror with heater New

Heated and power adjustable mirrors can be adjusted with a switch inside the cab.



Electric mirror angle adjustment switch



Keyless start system New

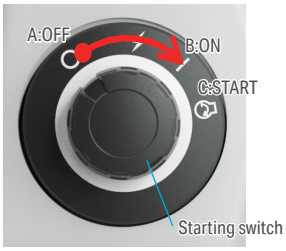
Instead of starting the engine using a conventional key, we have adopted a keyless start system with enhanced security.



Start monitor
Turn the start switch from position A to position B.

Security certification
Passcode entry or electronic key.

Engine start
Turn the start switch to position C to start the engine.



① Passcode entry

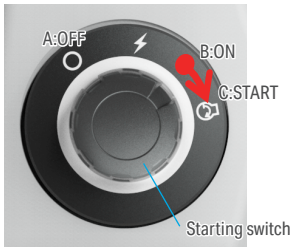


Enter the passcode registered for the operator

② Electronic key

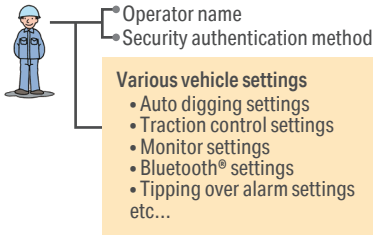


Connect to Bluetooth® and authenticate with a dedicated key.



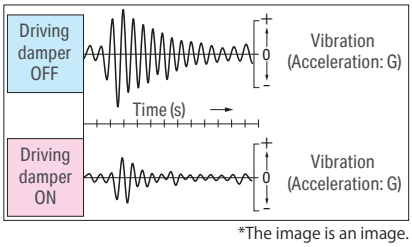
Operator ID

ID for each operator can be registered in a vehicle and store various vehicle settings in the operator ID. Once an operator ID is registered in a vehicle, the previous vehicle settings of the operator will be carried over the next time the operator log in, which is efficient as it saves the trouble of resetting the settings.



Electronically controlled suspension system

It significantly reduces various vibrations caused by uneven driving surfaces, providing excellent driving performance and significantly reducing operator fatigue. It is effective in reducing material spillage during work and in load and carry operations, and allows for smooth running without load, leading to increased speed. It automatically turns on when the travel speed increases and turns off when digging, so there is no need for troublesome switch operations.



*The image is an image.

Roll curtain New

A roll curtain is provided above the glass in front of the cab. It can be pulled down when needed to prevent hot sunlight.



Enhanced safety

Rear object detection system New

The system uses two radars mounted on the rear side of the machine to detect persons, objects, and working machines approaching in the direction of travel during reversing. If there is a risk of collision, a warning buzzer and indicator light will alert the operator. False detection reduction functions specially designed for wheel loaders are provided to improve safety without compromising productivity.



3 false detection reduction functions

- Steering-linked function

The functions predicts the direction of travel from the steering angle and changes the warning range accordingly to reduce unnecessary warnings.

- Travel speed linked function

The functions changes the warning range according to the travel speed, closer at lower speeds and farther at higher speeds, to reduce unnecessary warnings.

- Piling up operation linked function

The functions detects piling up operations and automati-cally turns off the warning function to prevent false detections of the ground. This function can be enabled or disabled.

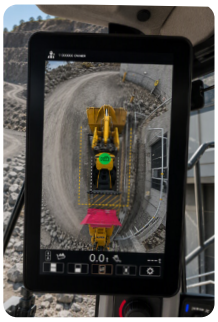
- This is not a system to reduce collisions under all conditions. There are limitations to performance. Overly relying on or misusing the system can lead to accidents.
- Before using this system, be sure to read the operation and Maintenance Manual, understand the system, and use it correctly.
- This system is not intended to prevent operator inattention, such as looking away or careless operation.

360° KomVision surround-view system New

Four wide-angle high-definition cameras provide a seamless 360° view of the safety zone around the wheel loader. This allows the operator to focus on the task at hand, even in busy or low-light conditions.

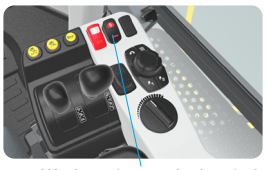


With KomVision, various camera views are available, while the bird's-eye view provides a clear view from above the machine.



Work equipment lock switch

A work equipment lock switch is provided near the work equipment lever. This prevents accidental operations due to unintentional lever movements.



Work equipment lock switch

Engine shutdown secondary switch

The engine stop switch is incorporated to allow shutdown of the machine when accessing the key switch is not possible.



Secondary steering

Even if the engine stalls, the operator can steer the machine by using the auxiliary electric pump.

Two independent brake systems

Brake system have high-reliability by the use of two independent hydraulic circuits, providing hydraulic backup should one of the circuits fail.

Seat belt caution indicator

A warning indicator on the monitor appears when the seat belt is not engaged.



ROPS/FOPS cab

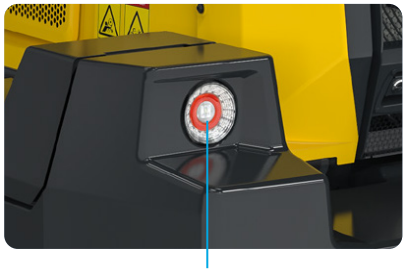
The ROPS/FOPS cab is standard for operator's safety. The large front curved pillar-less glass provides excellent front visibility.

ROPS (ISO 3471) : Roll-over Protective Structure
FOPS (ISO 3449) : Falling Objects Protective Structure



LED lamp New

LED lamps are equipped on various positions of the machine. The visibility under low light environment is improved, and work at night with ease. The rear combination lamp is built into a counterweight, for a crash-resistant structure.



Rear combination lamp



LED rear work lamp



LED front working lamp



LED headlamp



LED rear working lamp

Highly visible handrails New

The handrails are painted a different color from surrounding parts for improved visibility.



Highly visible seatbelt New

The vehicle comes standard equipped with a two-point seatbelt in a highly noticeable color. A four-point seatbelt is also available as an option.



Two-point seatbelt



Four-point seatbelt

Wheel chocks

The vehicle is equipped with wheel chocks to prevent unexpected vehicle movement.



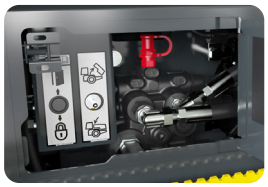
Remote courtesy lights New

Entering: The LED work light automatically turns on when the operator presses the button on the electronic key and the electronic key connects to the vehicle, so that the vehicle can be safely entered and exited even in dark areas.
Exiting: The work light turns on for a set duration of time when the cab door is opened, allowing the operator to safely exit and walk away from the vehicle even in dark areas with poor footing.

Easy maintenance

Powered tiltable engine hood New

The powered tiltable engine hood has greatly improved maintenance access. An engine hood side cover is provided for daily inspection and maintenance. A special small window is provided to access the air cleaner located in the engine room. The operator can access the engine areas that are serviced every day from L.H. and R.H. hood side covers.



Swing-out type cooling fan

The hydraulic cooling fan is swing out type, which can be opened and closed with a single touch. The radiator can be cleaned from rear as well.



Auto reversing fan

The engine cooling fan is driven hydraulically. It can be set to reverse automatically during operation. Fan reverse mode and timing can be controlled through the monitor.

Easy window cleaning New

Wide steps, roof handrail and anchor points of tie-off are installed. It provides easy window cleaning.



Roof handrail



Anchor point of tie-off

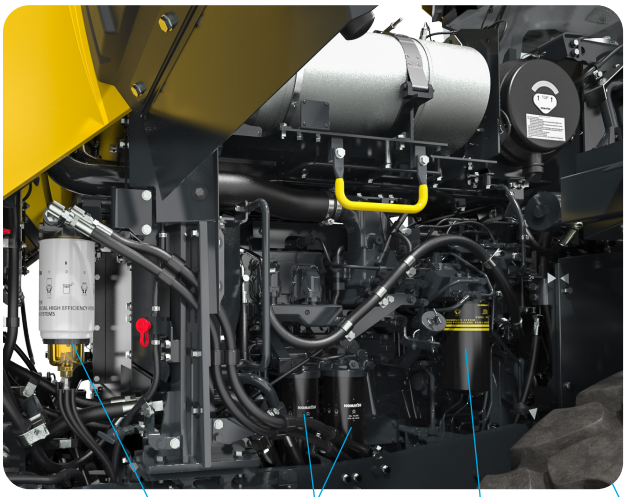


Steps

Downtime reduction New

The aftertreatment devices and engine can be easily replaced by opening the engine hood. Inaddition, the cab can be easily replaced as well. Moreover, the air conditioner blower motor is also easier to remove and install than previous models, while the evaporator is easier to clean. Downtime is reduced even if a trouble occurs.

From R.H. side of machine





21% reduction in maintenance costs New

Extended change interval for hydraulic oil

2000 hours → **6000 hours**

Extended change interval for hydraulic oil filter

2000 hours → **6000 hours**

Extended KDPF cleaning interval

4500 hours → **8000 hours**

*Compared to WA480-8



Air cleaner New

The air cleaner is located on the right side platform for easy access.



DEF tank

To facilitate refilling, the DEF tank is installed near access and egress ladder on the right-hand side of the vehicle for easy access. The cap has a chain attached so that it won't fall off when refilling.



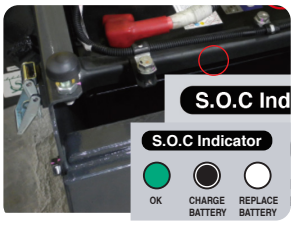
Engine hood side covers New

The operator can access the parts and cooling core to be serviced every day from the engine R.H. and L.H. hood side covers. The side-by-side type radiator can be easily cleaned.



Maintenance-free battery

Maintenance-free battery saves maintenance time. Operator needs only to check the indicator to know the status. (OK/Charge/Replace)



Easy sampling

Added sampling port for oil and coolant on machine, so you can sample very easily.



New Komatsu engine

New komatsu engine -U.S.EPA tier4 Final and EU StageV emissions regulations, equipped with the latest engine that achieves low fuel consumption and high output New

The basic structure has been completely redesigned with Komatsu's technology, incorporating an optimally designed latest engine from scratch. By improving combustion and optimally designing the exhaust gas after-treatment system, we have developed a clean engine with high reliability, low fuel consumption, and high output. We have also focused on ease of maintenance, achieving both a further reduction in environmental impact and excellent economic efficiency.

Engine specification

Rated power (Net)	**270** kW (+21%)
Max. torque (Net)	**2258** N·m (+68%)

*Compared to WA480-8



Improve critical engine components New

Key engine components such as cylinder blocks, crankshafts, and pistons were reviewed from the viewpoint of materials and structure.Significantly improves material strength and fuel efficiency, increases engine life by 33%, increases engine output by 21%, and improves fuel consumption per output by 10%. Achieved high durability, high output, and low fuel consumption. In addition, by adopting the latest technology, we have been able to improve the engine output while maintaining the same level of noise as the previous engine, creating an environmentally friendly engine.

Electronic control system

The electronic control system performs high-speed processing of all signals from sensors installed in the vehicle and engine to ensure total control of equipment in all conditions of use. While keeping the powerful and quick response of Komatsu equipment, the system helps reduce NOx and particulate matter (PM) emissions to a great extent, improve fuel consumption, and reduce noise level. Conditions of the engine are displayed via an on-board network on the monitor inside the cab, providing necessary information to the operator. Furthermore, managing the information via KOMTRAX helps customers engage in appropriate maintenance and diagnosis.

Extend maintenance interval New

The Komatsu diesel particulate filter (KDPF) cleaning interval has been extended from 4500 hours to 8000 hours, while valve clearance inspection/adjustment has been extended from 2000 hours to 4000 hours.
By changing the filter type, Komatsu closed crankcase ventilation (KCCV) filter replacement, that was previously required, is no longer necessary.

Replacement interval	WA485-11	WA480-8
KDPF cleaning	**8000 h**	4500 h
Valve clearance inspection/adjustment	**4000 h**	2000 h
KCCV filter replacement	**Unnecessary**	2000 h

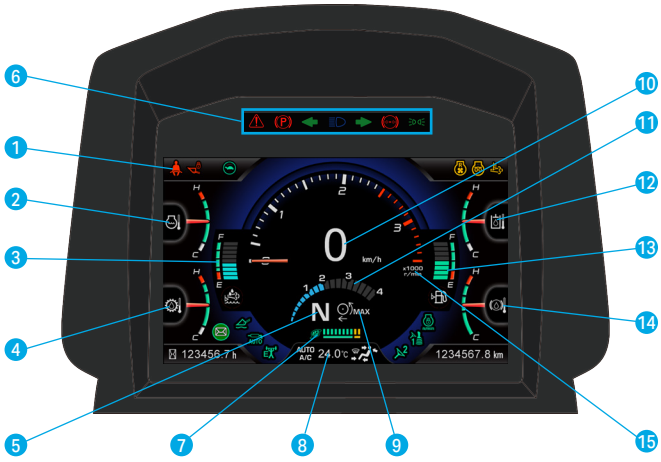
Delayed engine shutdown New

Even if the starting switch is turned off, if the engine or aftertreatment is hot, the engine will continue to run to cool it down, and when the temperature has dropped, the engine will automatically stop and the main power will be turned off, keeping the engine in a safe state.

Information and communication technology (ICT)

High resolution 8-inch LCD machine monitor with command selector New

The machine monitor displays various machine information and allows for various settings of the machine. The LCD monitor is an 8-inch color LCD and displays maintenance information, operation record, ECO guidance record, etc. The command selector is used to select various screens. Data is displayed in 27 languages to globally support operators around the world.

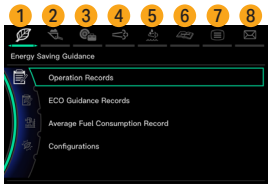


Machine monitor

1. Pilot lamps
2. Engine coolant temperature gauge
3. DEF level gauge
4. Transmission oil temperature gauge
5. Shift lever position
6. LED unit
7. ECO gauge
8. Air conditioner
9. Traction control level
10. Speedometer
11. Travel speed control dial gauge
12. Hydraulic oil temperature gauge
13. Fuel gauge
14. Brake oil temperature gauge
15. Engine tachometer

Visual user menu

Pressing the menu switch on the command selector displays the user menu screen. The menus are grouped for each function, and use easy-to-understand icons which enable the machine to be operated intuitively.



1. Energy Saving Guidance
2. Load Meter
3. Machine Setting and Information
4. Aftertreatment Devices Regeneration
5. SCR Information
6. Maintenance Item
7. Operator and Monitor Setting
8. Mail check

Machine monitor with troubleshooting function to minimize downtime

Various meters, gauges and warning functions are centrally arranged on the machine monitor. The monitor simplifies start-up inspection and promptly warns the operator with a lamp and buzzer if any abnormalities should occur.



KOMTRAX

The Komatsu remote monitoring and management technology provides insightful data about your equipment and fleet in user-friendly format.



Energy saving operation ECO guidance

In order to support optimum operation, the following guidance messages are displayed for fuel saving operation.

1) Excessive engine idling event
2) Hydraulic relief pressure event
3) Excessive digging event

The ECO guidance menu enables the operator to check the operation record, fuel consumption history and ECO guidance record by pushing the button. The records can be used to reduce the overall fuel consumption.

Maintenance information is clearly displayed on the monitor screen

- Maintenance time display



- Aftertreatment devices regeneration display



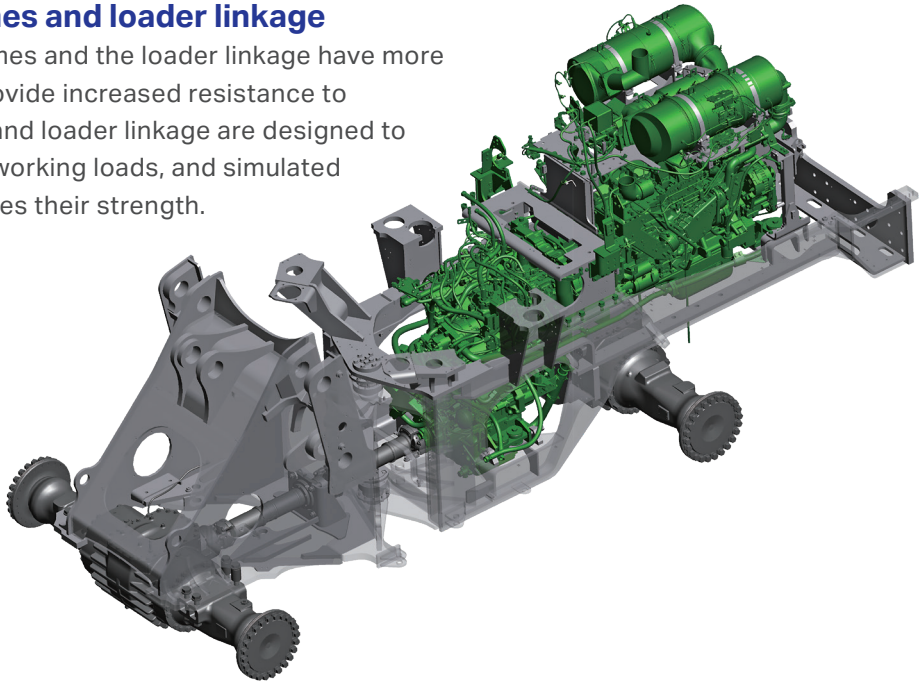
- Supports the DEF level and refill timing



Reliability and durability

High-rigidity frames and loader linkage

The front and rear frames and the loader linkage have more torsional rigidity to provide increased resistance to stresses. The frames and loader linkage are designed to accommodate actual working loads, and simulated computer testing proves their strength.



Komatsu components

Komatsu manufactures the engine, hydraulic mechanical transmission, hydraulic units and electric parts on this wheel loader.Komatsu loaders are manufactured with an integrated production system under strict quality system.

Wet multiple-disc brakes and fully hydraulic braking system

Wet multiple-disc brakes are fully sealed. Contaminants are kept out, reducing wear and resulting maintenance. Brakes require no adjustments for wear, meaning lower maintenance costs and higher reliability. The parking brake is also an adjustment-free, wet multiple-disc for high reliability and long life. Added reliability is designed into the braking system by the use of two independent hydraulic circuits, providing hydraulic backup should one of the circuits fail.

Highest quality coating of machine body

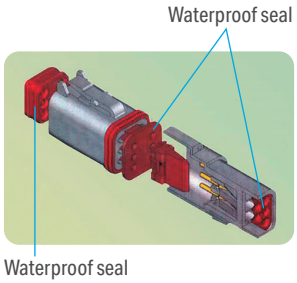
Highest quality coating parts are applied to the exterior of the machine body. For sheet metal parts, cationic electrodeposition coating is used for the base treatment, and melamine baking coating is used for the topcoat. For plastic parts, urethane coating is used. This ensures excellent surface finish quality and maintains a beautiful, glossy appearance over a long period, even in harsh environments.

Flat face-to-face O-ring seals

O-ring face seals having high sealing performance are used for hydraulic piping joints.

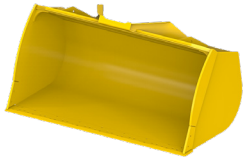
Sealed connectors

Main harnesses and controller connectors are equipped with sealed connectors providing high reliability, water resistance and dust resistance.

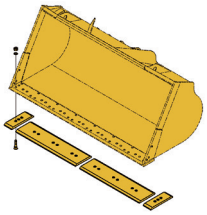


Buckets & attachments

Buckets

Type	Feature	Image
Loose/Light Material Bucket	This bucket is used for loading materials with comparatively light specific gravity. It is based on the general purpose bucket, with a lengthened cutting edge and width to give increased capacity.	

Cutting edges and teeth

Type	Feature	Image
Cutting edges	This edge is made for use in loading loose sand and soil, or for loading stockpiled materials. It is bolted to the leading edge of stock pile buckets and may be detached and reversed. The cutting edges are manufactured from especially heat treated, high tension steel, and since they are reversible, both edges can be used. This effectively doubles their working life.	Bolt on Cutting Edges (BOC) 

Standard and optional equipment

Engine

Engine, Komatsu DBA127	●
KDPF	●
Alternator, 24 V/140 A	●
Starting motor, 24 V/11.0 kW	●
Maintenance free batteries, 2 x 12 V / 136 A	●
Engine pre-cleaner with extension	○

Cab

Seat, suspension type with reclining	●
Seat mounted 5-way adjustable console R.H.	●
Electronic pilot control fingertip control with directional selector switch, two levers	●
Multifunction mono-lever loader control with transmission F-N-R switch	○
ROPS/FOPS (ISO 3471/ISO 3449) cab	●
Color multi-monitor	●
Angle feedback joystick steering (AFJS)	●
Steering wheel, tiltable, telescopic	○
Auto air conditioner	●
Multifunction Audio	●
DC12 V electrical outlets	●
Floor mat	●
Rain visor	●
Rear defroster (Electric)	●
Front wiper (With washer and intermittent)	●
Machine monitor with trouble shooting function	●
Rear window washer and wiper	●
Seat belt	●
Huge utility space	●
Cup holder	●

Lighting system

Rear working lamps on grill, LED, L.H. and R.H. side, 2 lamps	●
Rear working lamps, LED, L.H. and R.H. side, 2 lamps	●
Additional rear working lamps on platform, LED, L.H. and R.H. side, 2 lamps	●
Front working lamps, LED, L.H. and R.H. side, 4 lamps	●
Front working lamps, LED, L.H. and R.H. side, 2 lamps	●
Side working lamps, LED, L.H. and R.H. side, 2 lamps	●
Stop and tail lamps, LED and turn signal lamps	●
Headlamps, LED, L.H. and R.H. side	●
Directional signal	●
Hazard lamps	●
Back-up lights, LED	●

Safety equipment

Service brakes, wet disc type	●
Back-up alarm	●
Electric mirror with heater	●
Komvision monitoring system	●
Horn, electric	●
Parking brake, electric	●
Anchorage points	●
Handrails for platform	●
Handrails for roof	●
Step for cleaning window	●
Secondary steering	●
Rear object detection system	●

Tires

26.5R25(L-4)	●
775/65R29 (L3)	●

Other

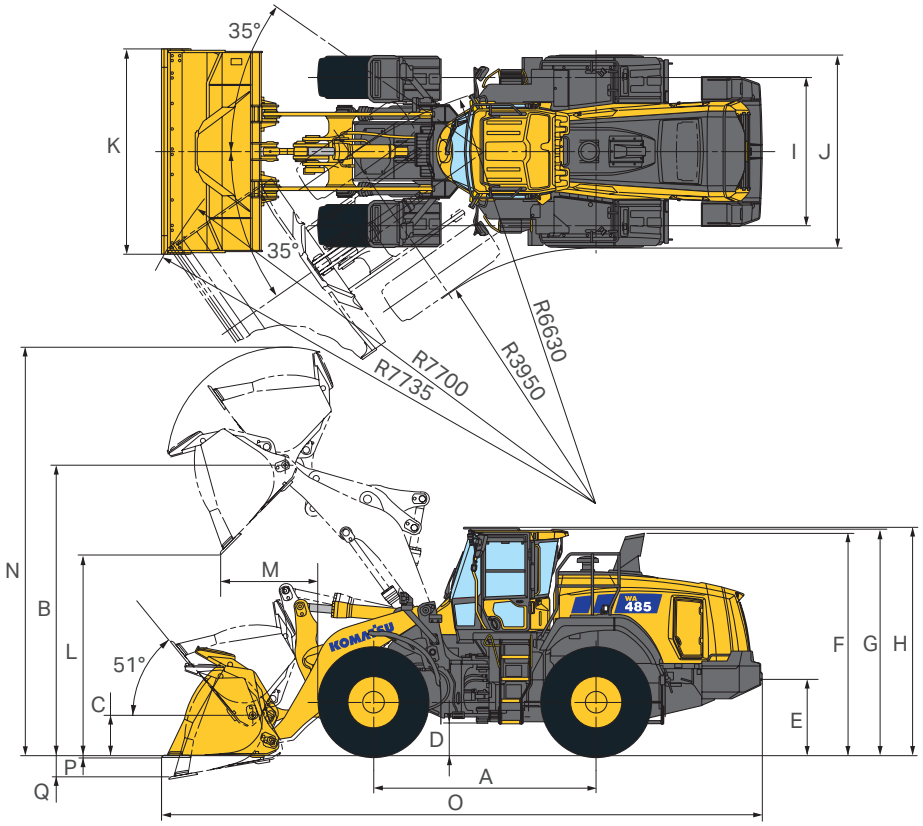
Engine shutdown secondary switch	●
Radiator, wide core	●
Radiator mask, swing out	●
Komatsu hydraulic mechanical transmission (KHMT)	●
Loader linkage with standard boom	●
2-spool valve for boom and bucket controls	●
3-spool valve with lever and piping	○
Counterweight, standard	●
Additional counterweight	●
Lift cylinders and bucket cylinder	●
Electronically controlled suspension system	●
Remote bucket positioner, in-cab adjustable, 3 positions	●
Loadmeter (two lever only)	●
Remote boom positioner, in-cab adjustable	●
Auto idle stop timer setting	●
Auto shift control	●
Battery disconnect switch	●
Hydraulic-driven fan with automatic reverse rotation	●
Vandalism protection	●
Front fenders	●
Front fenders with extensions	●
Rear full fenders	●
KOMTRAX	●
ECO guidance	●
Fuel pre-filter with water separator	●
Cutting edge (Bolt on type)	○

Further equipment on request

● Standard equipment

○ Optional equipment

Dimensions and specifications



			Aggregate spec Loose material bucket**
	Bucket capacity	Heaped ISO rated	5.8 m^3
		Heaped 110% fill factor	6.4 m^3
		Struck	5.0 m^3
A	Wheelbase		3450 mm
B	Hinge pin height, max. height		4500 mm
C	Hinge pin height, carry position		595 mm
D	Ground clearance		505 mm
E	Hitch height		1200 mm
F	Overall height, top of the stack		3450 mm
G	Overall height, ROPS cab		3500 mm
H	Overall height, top of the roof rail		3540 mm
I	Tread		2300 mm
J	Width over tires		3060 mm
K	Bucket width		3170 mm
	Bucket weight		2680 kg
L	Dumping clearance, max. height and 45˚ dump angle*		2905 mm
M	Reach at max. height and 45˚ dump angle*		1615 mm
N	Operating height (Fully raised)		6380 mm
O	Overall length		9750 mm (With BOC)
	Loader clearance circle diameter (Bucket at carry. outside conrner of bucket)		7765 mm
P	Digging depth: 0°		30 mm
Q	Digging depth: 10°		395 mm
	Static tipping load	Straight	21895 kg
	Static tipping load	40° full turn	18735 kg
	Breakout force		192 kN (19543 kg)
	Operating weight		29202 kg

All dimensions, weights, and performance values based on 26.5R25(L-4) tires, ROPS/FOPS(ISO 3471/ISO 3449) cab, and based on ISO 7131 and 7546 standards. Static tipping load, operating weight and overall length shown include lubricant, coolant, full fuel tank, ROPS/FOPS(ISO3471/ISO3449) cab and operator.Machine stability and operating weight affected by counterweight, tire size, and other attachments.

* At the end of tooth or bolt on cutting edge (BOC). ** Equipped with a large capacity bucket and additional counterweight (+610 kg) compared to standard specifications. This specification allows for an operating capacity that is 550 kg greater than standard specification when specialized for stock pilling and loading processed material, such as sand, gravel and aggregate.

Engine

Model	Komatsu DBA127
Type	Water-cooled, 4-cycle
Aspiration	Turbocharged, aftercooled
Number of cylinders	6
Bore x stroke	130 mm x 160 mm
Piston displacement	12.74 L
Governor	All-speed, electronic
Horsepower	
SAE J1995	Gross 271 kW 363 HP
ISO 14396	271 kW 363 HP
ISO 9249/SAE J1349*	Net 270 kW 362 HP
Rated rpm	1600 min^{-1}
Fan drive method for radiator cooling	Hydraulic
Fuel system	Direct injection
Lubrication system:	
Method	Gear pump, force-lubrication
Filter	Full-flow type
Air cleaner	Dry type with double elements and dust evacuator, plus dust indicator

* Net horsepower at the maximum speed of radiator cooling fan is 259 kW 347 HP.
U.S. EPA Tier 4 Final and EU Stage V emissions certified.

Transmission

Type	Hydraulic Mechanical planetary type
Travel speed	
Measured with 26.5R25 tires	
Forward	3.0 - 38.0 km/h
Reverse	3.0 - 28.0 km/h

Axles and final drives

Drive system	Four-wheel drive
Front	Fixed, semi-floating
Rear	Center-pin support, semi-floating, 26˚ total oscillation
Reduction gear	Spiral bevel gear
Differential gear	Conventional type
Final reduction gear	Planetary gear, single reduction

Brakes

Service brakes	Hydraulically actuated, wet multiple-disc brakes actuate on four wheels
Parking brake	Wet multiple-disc brake
Secondary brake	One of dual service brake circuits is commonly used.

Steering system

Type	Articulated type, full-hydraulic power steering
Steering angle	35˚ each direction (40˚ end stop)
Minimum turning radius at the center of outside tire	6630 mm

Weight and dimension changes

Applying the following weight and dimensions changes to operating weight, static tipping load, width over tires and overall length.

Tires or attachments	Operating weight	Tipping load		Width over tires	Overall length
		Straight	Full turn		
775/65R29(L-3)	+323 kg	+595 kg	+525 kg	+155 mm	0 mm

* "With additional counterweight" does not apply for aggregate specification because the aggregate specification includes additional counterweight.

Hydraulic system

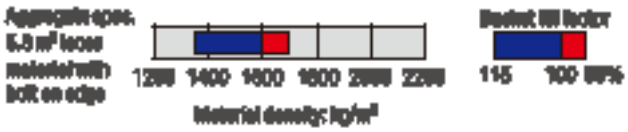
Steering system:	
Hydraulic pump	Piston pump
Capacity	157.7 L/min
Relief valve setting	24.5 MPa 250 kgf/cm^2
Hydraulic cylinders:	
Type	Double-acting, piston type
Number of cylinders	2
Bore x stroke	95 mm x 441 mm
Loader control:	
Hydraulic pump	Piston pump
Capacity	333 L/min
Relief valve setting	35.3 MPa 360 kgf/cm^2
Hydraulic cylinders:	
Type	Double-acting, piston type
Number of cylinders – bore x stroke:	
Lift cylinder	2 – 150 mm x 818 mm
Bucket cylinder	1 – 180 mm x 621 mm
Control valve	2-spool type
Control positions:	
Boom	Raise, hold, lower, and float
Bucket	Tilt-back, hold, and dump
Hydraulic cycle time (Rated load in bucket)	
Raise	6.1 s
Dump	2.1 s
Lower (Empty)	3.2 s

Service refill capacities

Cooling system	66 L
Fuel tank	359 L
Engine	41 L
Hydraulic system	132 L
Axle front	56.5 L
rear	56.5 L
Transfer case	40 L
DEF tank	60 L

Bucket selection guide

The size and type of the bucket should be properly selected depending on the density of the material and the expected bucket fill factor. Depending on the conditions, Komatsu buckets may perform more than rated capacity thanks to powerful boom linkage, efficient bucket shape and high rimpull.



For more information:

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New Zealand - Ph: **0800 566 2878** | Web: **komatsu.co.nz**

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