



Wheel loader

Engine power 217 kW / 291 HP @ 1600 rpm

Operating weight 25335 - 30070 kg

Bucket capacity 4.2 - 5.5 m³





Bucket capacity **4.2 - 5.5 m³**

Overwhelming performance The next generation loader

Powerful and environmentally friendly

- EU Stage V engine
- Komatsu Hydraulic Mechanical Transmission (K-HMT)
- Massive reduction in fuel consumption & emissions
- 15% higher engine torque, at lower rpm

First-class comfort

- Completely redesigned cab
- Tinted UV-protection glass
- High-performance air conditioning
- New monitoring system

Maximised efficiency

- High efficiency buckets
- Komatsu traction control system (K-TCS)
- Massive lifting power and break-out force
- High precision steering
- · Load Pilot with efficiency guidance

State-of-the-art controls

- Independent control of driveline and work equipment
- Auto hill-holding function
- Travel speed control dial

Easy maintenance

- Tiltable one-piece engine hood
- Wide core radiator with auto reverse fan
- Factory fitted automatic lubrication system

Komtrax

- Komatsu Wireless Monitoring System
- 4G mobile communications
- Integrated communication antenna
- Increased operational data and fuel savings



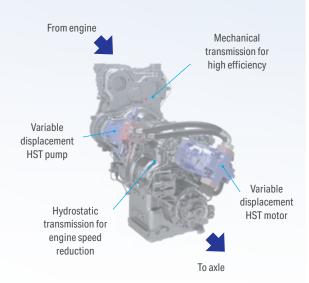
A maintenance program for Komatsu customers

3



Komatsu Hydraulic Mechanical Transmission (K-HMT)

K-HMT combines the benefits of hydrostatic and mechanical powertrains. This innovative technology, developed by Komatsu, provides extra power to the WA475-10, along with ultra-low fuel consumption and industry-leading productivity. An electronic controller works to maintain the engine speed low and constant. Minimum interaction is required, and operations are easier.



Massive lifting force

The Z-bar linkage is optimised for significantly quicker loading cycles. More lifting power and higher break-out forces make bucket filling easier. In combination with Komatsu high-efficiency buckets, this provides significantly increased production rates, with more tonnes-per-hour.

Adjustable idle shutdown

The Komatsu auto idle shutdown automatically turns off the engine after it idles for a set period of time. This feature can easily be programmed from 5 to 60 minutes, to reduce unnecessary fuel consumption and exhaust emissions, and to lower operating costs. An Eco-gauge and the Eco guidance tips on the cab monitor further encourage efficient operations.

Powerful and environmentally friendly

Komatsu EU Stage V

The Komatsu EU Stage V engine is productive, dependable and efficient. With ultra-low emissions, it provides a lower environmental impact and a superior performance to help reduce operating costs and lets the operator work in complete peace of mind.

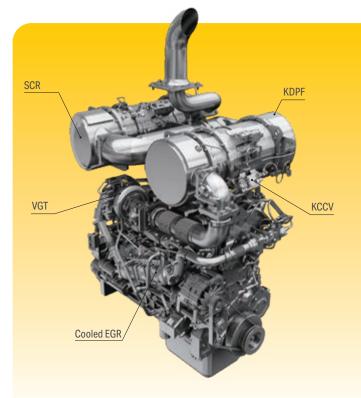
Increased engine power

The engine is specifically designed to work together with K-HMT technology. It develops a higher performance and provides up to 15% more engine torque at lower engine speeds, compared to the previous model.

Heavy-duty aftertreatment

The aftertreatment system combines a Komatsu Diesel Particulate Filter (KDPF) and Selective Catalytic Reduction (SCR). The SCR injects the correct amount of AdBlue[®] into the system at the proper rate to break down NOx into water (H₂O) and non-toxic nitrogen gas (N₂). NOx emissions are reduced by 80% vs. EU Stage IIIB engines.





Exhaust Gas Recirculation (EGR)

Cooled EGR is a technology well-proven in current Komatsu engines. The increased capacity of the EGR cooler now ensures very low NOx emissions and a better engine performance.

High-Pressure Common Rail (HPCR)

To achieve complete fuel burn and lower exhaust emissions, the heavy-duty High-Pressure Common Rail fuel injection system is computer controlled to deliver a precise quantity of pressurised fuel into the redesigned engine combustion chamber by multiple injections.

Komatsu Closed Crankcase Ventilation (KCCV)

Crankcase emissions (blow-by gas) are passed through a CCV filter. The oil mist trapped in the filter is returned back to the crankcase while the filtered gas is returned to the air intake.

Variable Geometry Turbo (VGT)

The VGT provides optimal airflow to the engine combustion chamber under all speed and load conditions. Exhaust gas is cleaner, fuel economy is improved while machine power and performance are maintained.

Maximised efficiency

Komatsu traction control system (K-TCS)

K-TCS controls the K-HMT and the engine to optimise traction automatically depending on work conditions. The provided rim pull can be set to 4 different levels to prevent wheels from spinning, regardless of ground conditions. Constant traction increases productivity and reduces tire wear and costs.

Travel speed control dial

Machine speed can be kept constant thanks to the integrated travel speed control dial, with no need to apply the brake even when travelling downhill.

High precision steering

The re-designed steering system is more powerful and accurate. This eases Load & Carry operations on rough terrain and enhances the smooth controllability of the machine.

Automatic digging system

The automatic digging system actuates the bucket tilt and lifting operations by detecting the sensing pressure applied to the work equipment. The system adapts to different types of material with no human intervention required. Operator fatigue is greatly reduced and ideal load capacity ensured.

Drive line with automatic braking function

The WA475-10 has an automatic engine brake that helps to slow down the machine smoothly when the operator takes a foot off the accelerator. It also reduces brake wear. In addition, the new auto hill-holding function makes it very easy to operate on a slope.



P

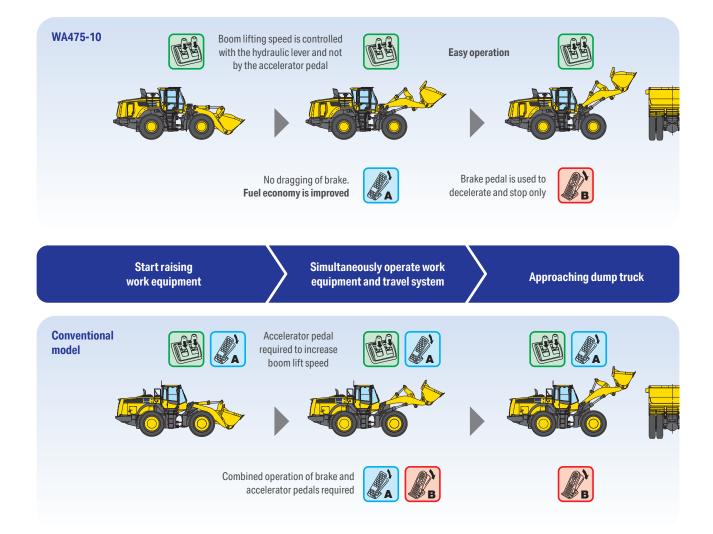
Load Pilot with efficiency guidance

The new Load Pilot is a large easy-to-read display located in the centre of the main monitor. Its various modes can display the current payload, inform the operator about the weight of material already loaded and how much remains to be loaded to reach a pre-set target, or show daily load records. Load Pilot uses the machine's data for material movement and fuel consumption to provide precise values for fuel efficiency and overall machine performance, and helps the operator work more efficiently.

Independent control of driveline and work equipment

This revolutionary system eases operations and enables shorter V-shape cycles. Boom speed is now controlled with the hydraulic lever and not by the accelerator pedal. The right balance between traction and boom lifting speed can easily be found and the WA475-10 can smoothly approach the loading area.





First-class comfort

Newly designed cab: unrivalled operator convenience

The all-new Komatsu SpaceCab[™] on the Komatsu "Dash 10" wheel loaders features more comfort and visibility, making these models a dream to operate. Entering and exiting the WA475-10 is facilitated by angled steps, large handrails and rear hinged doors with a wide opening angle. A standard second door further eases egress and communications on the jobsite. High visibility and ergonomic controls help to maximise the operator's productivity. The lever console features a new commandselector dial and is adjustable on five axes to suit any operator. A slightly increased internal air pressure prevents dust and other particulates from entering the cab.

Perfect all-round visibility

A bay style window, a large curved front screen and floor-to-ceiling glass surfaces contribute to allround visibility. All glass surfaces are tinted and feature a UV radiation filter to minimise the heat caused by the sun.



State-of-the-art controls





Komatsu Short Lever Steering (K-SLS) (option)



Newly designed controls. The command selector switch (1) allows convenient navigation through the monitor menus, as in a passenger car. The new travel speed control dial (2) keeps the machine's speed constant when travelling downhill.

New monitoring system and controls

All operational switches are illuminated and centralised on the front pillar and in optimum reach of the operator. The rear-view monitor is height adjustable to match the operator's requirements.

New, fully air-suspended operator station

The wide spacious cab features a new, fully air-suspended operator seat that includes the side consoles mounted together with a high back, fully adjustable, standard heated seat for improved comfort. A seat ventilation is optionally available to maximise comfort.

"By Wire" operating

The Electronic Pilot Control (EPC) lever console is integrated with the seat and can be easily adjusted to suit any operator. The short levers are fingertip controlled for precise and fatigue-free operating, with a no-vibration modulating function for slowing and stopping a lowering bucket. The upper and lower boom cut-out position can be pre-set with a switch.

EPC multifunction lever (option)

The EPC multifunction lever with an integrated forward/reverse switch allows the simplest and most comfortable operation of the equipment. With one hand the driver can simultaneously control the attachment and switch between forward and reverse. The multifunction lever is the perfect choice for earthmoving jobs.

Komatsu Short Lever Steering (K-SLS) (option)

The new finger-type joystick steering allows more accurate steering by the operator who can now sit relaxed in the new airsuspended and fully adjustable seat to control the machine with no big effort needed for frequent steering. Less fatigue and work in a perfectly adapted operating position will improve concentration and the quality and efficiency of the work.

Advanced joystick steering system (AJSS) (option)

The advanced "feedback" steering system allows both steering and directional selection to be controlled by wrist and finger. With the feedback function, the machine steering angle is exactly the same angle as the lever tilt angle. The operability of the lever is greatly improved thanks to the new ergonomic design with extra large directional toggle switch.



Aggregate handling linkage

Aggregate handling linkage (option) This innovative Z-bar linkage is especially designed for face excavating and loading applications with direct mounted

excavating and loading applications with direct mounted buckets. Its view-through design offers enhanced visibility for truck loading or hopper feeding. The aggregate handling linkage is the perfect choice for loading large material volumes at fast cycle times. Its superior breakout force makes loading operations child's play, even for an untrained operator. More experienced drivers will also appreciate this feature, particularly when working with high-density material such as heavy soil or aggregate.

Tool linkage

Tool linkage (option)

The new tool linkage dramatically increases tilting torque (vs Z bar) in the most exposed position - boom raised, fully dumped. This allows precise, easy handling of heavy loads such as unloading logs from a truck. The new tool linkage kinematics ensure the bell crank cannot interfere when using large buckets. This allows immediate use of existing customer buckets without modification or replacement.

475



KOMATSU



Image shows Advanced Joystick Steering System (AJSS) (option)

Lower operating costs

Komatsu ICT contributes to the reduction of operating costs by assisting to comfortably and efficiently manage operations. It raises the level of customer satisfaction and the competitive edge of our products.

Large TFT colour monitor

Info displayed "at a glance" on the central dashboard. A 7-inch, full color, high-resolution monitor provides key machine metrics including KDPF status and data for AdBlue[®] level and fuel consumption, and the setting of the machine's travel speed.

Eco guidance

Messages from the Eco guidance system are displayed in realtime during operations and on the exit screen when the ignition is turned off. The Eco guidance menu enables the operator to check operation logs and fuel consumption. These records are useful to reduce overall fuel usage and can be saved and sorted by the operator.



"At a glance" information on the central dashboard

Working Hours (Engine On)	0.0	h
Average Fuel Consumption	10.0	£/1
Actual Working Hours	0.0	h
Ave. Fuel Consumption (Actual Working)	10.0	₿/?
Fuel Consumption	0	4
Idling Hours	0.0	h

A multifunction monitor displays and controls a wealth of operational and maintenance information



Fuel consumption history display

Information & communication technology



Knowledge

You get quick answers to basic and critical questions about your machines – what they're doing, when they did it, where they're located, how they can be used more efficiently and when they need to be serviced. Performance data is relayed by wireless communication technology (satellite, GPRS or 4G depending on model) from the machine to a computer and to the local Komatsu distributor – who's readily available for expert analysis and feedback.

Convenience

Komtrax enables convenient fleet management on the web, wherever you are. Data is analysed and packaged specifically for effortless and intuitive viewing in maps, lists, graphs and charts. You can foresee eventual maintenance issues and required spare parts, and troubleshoot a problem before Komatsu technicians arrive on site.



The way to higher productivity

Komtrax uses the latest wireless monitoring technology. Compatible on PC, smartphone or tablet, it delivers insightful and cost saving information about your fleet and equipment, and offers a wealth of information to facilitate peak machine performance. By creating a tightly integrated web of support it allows proactive and preventive maintenance and helps to efficiently run a business.

Power

The detailed information that Komtrax puts at your fingertips 24 hours a day, 7 days a week gives the power to make better daily and long-term strategic decisions – at no extra cost. Problems can be anticipated, maintenance schedules customised, downtime minimised and machines kept where they belong: working on the jobsite.



Easy maintenance



Excellent serviceability

A powered tilting hood provides full access to the engine compartment. Side doors give quick and convenient access for daily checks and service. Full rear fenders are standard, a gauge on the AdBlue® fill cap minimises overfilling. Servicing costs are remarkably reduced, which provides a lower lifecycle cost.

Equipment Management and Monitoring System (EMMS)

The large high resolution monitor panel displays various machine information and allows for multiple settings. The "Operation Records" menu shows records of the average fuel consumption, idling hours, and other features. Abnormality codes are clearly displayed and stored to alert you and simplify troubleshooting. The monitor also provides for advanced monitoring of the system parameters through the service mode to aid in troubleshooting and reduce downtime.



Wide core radiator with auto reverse fan

A wide core radiator prevents clogging even when working in a dusty environment. To minimise manual cleaning, a reversible fan blows dust out, automatically or on demand. The "automatic reverse" function allows to set the cleaning length and the time between cleaning to adjust perfectly to the working conditions.

Komatsu Care

Komatsu Care is a maintenance program that comes as standard with your new Komatsu machine. It covers factory-scheduled maintenance, performed with Komatsu Genuine parts by Komatsu-trained technicians. Depending on your machine's engine, it also offers extended coverage of the Komatsu Diesel Particulate Filter (KDPF) and of the Selective Catalytic Reduction (SCR). Please contact your local Komatsu distributor for terms and conditions.



Factory fitted automatic lubrication system

The automatic lubrication system reduces the daily service work to the absolute minimum. Robust piping ensures consistent lubrication and operating reliability, and significantly increases the machine's service life. The system is electronically monitored and features a signal light in the cabin.

Diesel particulate filter regeneration

No interruption or extension of daily work is required to regenerate the diesel particulate filter system. Due to its superior Komatsu technology, KDPF regeneration takes place automatically, at any time.





Well located service doors allow convenient and safe access to daily service points



Basic maintenance screen



Aftertreatment device regeneration screen for the KDPF



Tailored solutions



Working gear division

Komatsu wheel loaders combined with a wide range of genuine Komatsu attachments provide the perfect solution for any industry sector. For special applications our "Working Gear" division offers purpose-built machines and attachments. The tailor made solutions allow high performance and outstanding reliability even under toughest conditions.

Waste & Recycling

Renowned for high quality standards and reliability, Komatsu meets the huge demand placed on machines by the waste management industry with a wide range of options and modifications available ex factory for our base machines. This provides the flexibility to adapt the Komatsu wheel loader range to the specific requirements of different waste handling applications and jobsite conditions. Whether you choose the full waste specification or individual components, you're guaranteed increased machine performance, availability and efficiency.

Salt & Chemical

A corrosive environment is one of the toughest challenges for any machine. Upgraded with a special coating on the metal parts and with various optional modifications to fit the application at hand, Komatsu "Salt & Chemical" configured wheel loaders hold up even under the most aggressive conditions. Reduced downtime, less maintenance and repair costs and a long lifetime: Komatsu machines perform as well and last as long as in a non-corrosive environment.

Komatsu quality & safety

Designed and built by Komatsu

The engine, hydraulics, power train, front and rear axles are original Komatsu components. All these components are subject to the highest quality standards right down to the smallest screw. All components are fully co-ordinated with one another, thus offering the maximum efficiency and reliability.

Optimal jobsite safety

Safety features on the Komatsu WA475-10 comply with the latest industry standards and work in synergy to minimise risks to people in and around the machine. The greatly improved visibility, along with a seat belt caution indicator and back-up alarm increase jobsite safety. Serrated steps, wide catwalks and large handrails allow safe and easy access to the cab and to maintenance check points.

Robust torsion-resistant main frame

The frame design with hinge points far apart guarantees the high stability for the overall construction and reduces bearing stress in the torsional ranges.

Heavy-duty axles

The heavy-duty axles allow exceptional service life even under the toughest working conditions. The optional limited slip differentials are most suitable for soft and slippery ground like sand or wet soil.





Front cleaning step for safe and easy access to the front window



Full LED lighting for improved visibility

Specifications

Engine

Model	Komatsu SAA6D125E-7
Туре	Common rail direct injection, water-cooled, emissionised, turbocharged, after-cooled diesel
Engine power	
at rated engine speed	1600 rpm
ISO 14396	217 kW / 291 HP
Max. torque / engine speed	1560 Nm / 1330 rpm
No. of cylinders	6
Bore × stroke	125 × 150 mm
Displacement	11.041
Fan drive type	Hydraulic, reversible
Alternator	90 A / 24 V
Starter motor	11 kW / 24 V
Filter	Main-flow filter with water separator
Air filter type	Dry-air filter with automatic dust emission and preliminary purification including a dust display
Fuel	Diesel fuel, conforming to EN590 Class 2/ Grade D. Paraffinic fuel capability (HVO, GTL, BTL), conforming to EN 15940:2016

Transmission

Туре	Komatsu Hydraulic Mechanical Transmission (K-HMT)		
Max. travel speeds (forwards/bacl	kwards) (tyres 26.5 R25)		
1. speed range	1 - 8 km/h	1 - 8 km/h	
2. speed range	14 km/h	14 km/h	
3. speed range	24 km/h	28 km/h	
4. speed range	38 km/h	-	

Chassis and tyres	
System	4-wheel drive
Front axle	Komatsu HD axle, semi-floating (LSD-differential optional)
Rear axle	Komatsu HD axle, semi-floating, 26° swing angle (LSD-differential optional)
Differential	Spiral bevel gear pair
Final drive	Planetary gear in an oil bath
Tyres	26.5 R25

Brakes

Hydraulically actuated,
wet multi-disc brakes on all wheels
Wet multi-disc
Uses the parking brake

Hydraulic system

Туре	Komatsu CLSS (Closed Centre Load Sensing System)
Hydraulic pump	Variable piston pump
Working pressure	360 kg/cm ²
Maximum pump flow	306 I/min
No. of hydraulic/bucket cylinders	2/1
Туре	Double-action
Bore diameter × stroke	
Boom cylinder	150 × 764 mm
Bucket cylinder	180 × 540 mm
Hydraulic cycle with rated load bucket fillir	ıg
Raise time	5.8 s
Lowering time (empty)	3.1 s
Dumping time	1.6 s

Steering system

System	Articulated frame steering
Туре	Completely hydraulic power steering
Steering angle to either side	40°
Steering pump	Variable piston pump
Working pressure	250 kg/cm ²
Pumping capacity	145 l/min
No. of steering cylinders	2
Туре	Double-action
Bore diameter × stroke	95 × 441 mm
Smallest turn (outer edge of the tyre 26.5 R25)	6265 mm
(outor ougo or the tyre 2010 1120)	

Cabin

Two-door SpaceCab™ in conformity with ISO 3471 with ROPS (Roll Over Protective Structure) in conformity with SAE J1040c and FOPS (Falling Object Protective Structure) in conformity with ISO 3449. The air-conditioned pressurised cabin is mounted upon hydrobearings and is noise dampened.

Service refill capacities

Fuel tank	380
Engine oil	381
Hydraulic system	135
Cooling system	65 I
Front axle	59 I
Rear axle	59 I
Transmission case	401
AdBlue® tank	36 I

Environment	
Engine emissions	Fully complies with EU Stage V exhaust emission regulations
Noise levels	
LwA external	107 dB(A) (2000/14/EC Stage II)
LpA operator ear	70 dB(A) (ISO 6396 dynamic test)
Vibration levels (EN 12096:1997)	
Hand/arm	\leq 2.5 m/s ² (uncertainty K = 2.31 m/s ²)
Body	\leq 0.5 m/s ² (uncertainty K = 0.58 m/s ²)
Contains fluorinated greenhouse gas Quantity of gas 1.1 kg, CO ₂ equivaler	. ,



.

Dimensions and performance figures

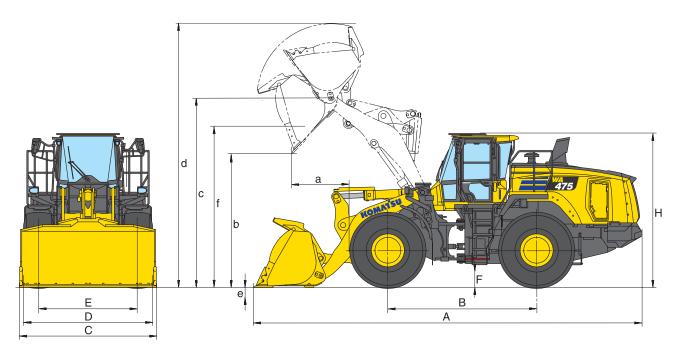
Measurements and working specifications

Bucket type		Bucket with raised bottom		Bucket with raised bottom		Bucket with raised bottom	
		w. teeth	w. BOC	w. teeth	w. BOC	w. teeth	w. BOC
Bucket capacity (heaped, ISO 7546)	m ³	4.5	4.7	4.5	4.7	4.7	4.9
Sales code		C76	C77	C86	C87	C82	C83
Material density	t/m³	1.8	1.7	1.8	1.7	1.7	1.6
Bucket weight	kg	2255	2290	2240	2285	2315	2365
Static tipping load, straight	kg	20070	19900	20180	19985	20010	19820
Static tipping load, articulated	kg	17355	17195	17450	17275	17295	17120
Break-out force hydraulic	kN	198	189	209	198	198	189
Lifting capability hydr. at ground level	kN	240	238	243	239	240	237
Operating weight	kg	25670	25705	25655	25704	25730	25780
Turning radius at corner of tyres	mm	6265	6265	6265	6265	6265	6265
Turning radius at bucket edge	mm	7080	7020	7125	7070	7155	7095
a Reach at 45°	mm	1590	1445	1530	1390	1590	1445
b Dumping height at 45°	mm	2760	2885	2815	2940	2760	2885
c Hinge pin height	mm	4345	4345	4345	4345	4345	4345
d Height top edge of bucket	mm	6090	6090	6030	6030	6090	6090
e Digging depth	mm	150	180	150	180	150	180
f Max. loading height at 45°	mm	4030	4030	4030	4030	4030	4030
A Overall length, bucket grounded	mm	9610	9445	9535	9365	9610	9445
B Wheel base	mm	3450	3450	3450	3450	3450	3450
C Bucket width	mm	2990	2990	3160	3170	3160	3170
D Width over tyres	mm	2990	2990	2990	2990	2990	2990
E Track width	mm	2240	2240	2250	2250	2245	2245
F Ground clearance	mm	500	500	500	500	500	500
H Overall height	mm	3480	3480	3480	3480	3480	3480

All measurements with tyres 26.5 R25 (L3 with -25 mm offset) and additional counterweight (A15).

High-lift equipment includes heavy counterweight (A25).

Details of dumping heights and reach to cutting edge or bolt-on cutting edge (BOC) or teeth.



Measurements and working specifications

	Bucket type		Bucket with flat bottom		Bucket with flat bottom		High-lift equipment	
			w. teeth	w. BOC	w. teeth	w. BOC	(Change in data	
	Bucket capacity (heaped, ISO 7546)	m ³	4.2	4.4	4.5	4.7	-	
	Sales code		C52	C53	C32	C33	-	
	Material density	t/m³	1.9	1.8	1.8	1.7	-0.2	
	Bucket weight	kg	2280	2320	2355	2395	-	
	Static tipping load, straight	kg	20100	19920	19940	19770	-3215	
	Static tipping load, articulated	kg	17380	17215	17230	17070	-2940	
	Break-out force hydraulic	kN	209	198	198	189	-	
	Lifting capability hydr. at ground level	kN	243	239	240	237	-44	
	Operating weight	kg	25695	25735	25770	25810	+910	
	Turning radius at corner of tyres	mm	6265	6265	6265	6265	-	
	Turning radius at bucket edge	mm	7055	7000	7080	7020	+287	
а	Reach at 45°	mm	1530	1390	1590	1445	+175	
b	Dumping height at 45°	mm	2815	2940	2760	2885	+510	
С	Hinge pin height	mm	4345	4345	4345	4345	+510	
d	Height top edge of bucket	mm	6030	6030	6090	6090	+510	
е	Digging depth	mm	150	180	150	180	+140	
f	Max. loading height at 45°	mm	4030	4030	4030	4030	+480	
А	Overall length, bucket grounded	mm	9535	9365	9610	9445	+600	
В	Wheel base	mm	3450	3450	3450	3450	-	
С	Bucket width	mm	2990	2990	2990	2990	-	
D	Width over tyres	mm	2990	2990	2990	2990	-	
Е	Track width	mm	2245	2245	2240	2245	-	
F	Ground clearance	mm	500	500	500	500	-	
Н	Overall height	mm	3480	3480	3480	3480	-	

Change in data caused by:

		Heavy counterweight (A25)	Without add. counterweight (A05)	Tyres 26.5 R25 L4	Tyres 26.5 R25 XMINE L5	Tyres 775/65 R29 L3
Operating weight	kg	+641	-545	+368	+1040	+655
Static tipping load, straight	kg	+1455	-1280	+310	+790	+465
Static tipping load, 40° articulated	kg	+1215	-1070	+275	+695	+410
Overall length	mm	-	-175	±0	±0	±0
Reach at 45°	mm	-	-175	-10	-35	+2
Dump height at 45°	mm	-	-	+16	+45	+3
Width over tyres	mm	-	-	±0	+60	+116
Overall height	mm	-	-	+16	+45	+3

High efficiency bucket range







High efficiency buckets with flat bottom

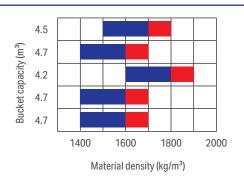
High efficiency buckets with raised bottom

Komatsu buckets enable easier bucket fill and significantly higher fill factors, contributing to more efficiency and less fuel consumption. They feature a longer bottom allowing for more content, a wider opening for an easier fill and a new rear shape that enables material to flow easily into the bucket. Their rounded sides give them a higher fill factor, and an integrated spill guard protects the bucket linkage. Flush screws (with BOC) reduce resistance when filling and keep material from clogging when dumping.

Bucket selection guide

Bucket fill factor

115 100 95%



Bucket with raised bottom with teeth (C76) Bucket with flat bottom with BOC (C33) Bucket with flat bottom with teeth (C52) Bucket with raised bottom with teeth (C82) Bucket with raised bottom with BOC (C87)

Typical material density – loose (in kg/m³)

Basalt	1960
Bauxite, kaolin	1420
Earth, dry, ex store	1510
Earth, wet, excavated	1600
Gypsum, broken	1810
Gypsum, crushed	1600
Granite, broken	1660
Limestone, broken	1540
Limestone, crushed	1540
Gravel, unscreened	1930
Gravel, dry	1510
Gravel, dry, 6 - 50 mm	1690
Gravel, wet, 6 - 50 mm	2020
Sand, dry, loose	1420

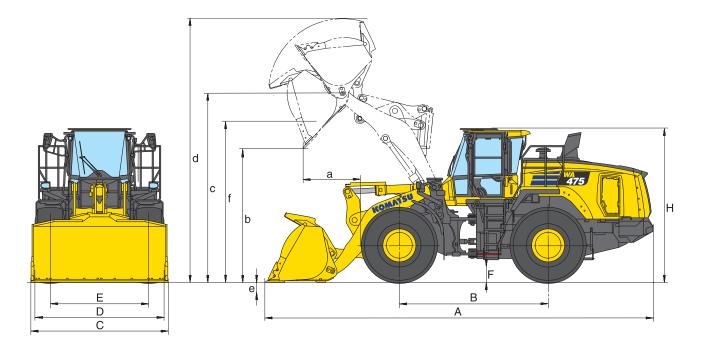
Sand, damp	1690
Sand, wet	1840
Sand and clay, loose	1600
Sand and gravel, dry	1720
Sandstone	1510
Slate	1250
Slag, broken	1750
Stone, crushed	1600
Clay, natural	1660
Clay, dry	1480
Clay, wet	1660
Clay and gravel, dry	1420
Clay and gravel, wet	1540

Aggregate handling linkage

Measurements and working specifications

Bucket type		Bucket with raised bottom			
		w. teeth	w. BOC	w. teeth	w. BOC
Bucket capacity (heaped, ISO 7546)	m ³	5.0	5.3	5.2	5.5
Sales code		C17	C18	C12	C13
Material density	t/m³	1.7	1.6	1.6	1.5
Bucket weight	kg	2420	2475	2490	2550
Static tipping load, straight	kg	21345	21135	21319	20995
Static tipping load, articulated	kg	18395	18205	18380	18070
Break-out force hydraulic	kN	192	183	187	178
Lifting capability hydr. at ground level	kN	238	234	236	232
Operating weight	kg	26555	26610	26630	26685
Turning radius at corner of tyres	mm	6265	6265	6265	6265
Turning radius at bucket edge	mm	7710	7675	7725	7690
a Reach at 45°	mm	1500	1530	1535	1565
b Dumping height at 45°	mm	2610	2535	2575	2500
c Hinge pin height	mm	4345	4345	4345	4345
d Height top edge of bucket	mm	6405	6160	6455	6210
e Digging depth	mm	150	180	150	180
f Max. loading height at 45°	mm	4030	4030	4030	4030
A Overall length, bucket grounded	mm	9340	9415	9390	9465
B Wheel base	mm	3450	3450	3450	3450
C Bucket width	mm	3200	3200	3200	3200
D Width over tyres	mm	2990	2990	2990	2990
E Track width	mm	2240	2240	2240	2240
F Ground clearance	mm	500	500	500	500
H Overall height	mm	3480	3480	3480	3480

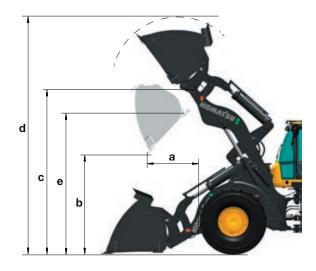
All measurements with tyres 26.5 R25 (L3 with -25 mm offset) and heavy counterweight (A25). Details of dumping heights and reach to cutting edge or bolt-on cutting edge (BOC) or teeth.



Tool linkage

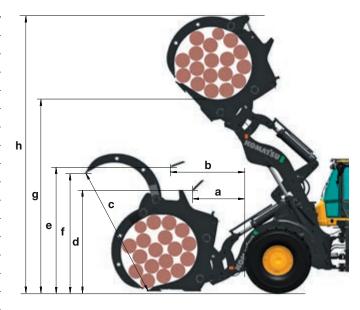
Bucket with raised bottom

	Bucket capacity (heaped, ISO 7546)	m ³	4.7
	Sales code		QC77
	Material density	t/m³	1.6
	Bucket width	mm	3000
	Bucket weight	kg	2000
	Static tipping load, straight	kg	19300
	Static tipping load, 40° articulated	kg	15825
	Break-out force hydraulic	kN	177
а	Reach at 45°	mm	1440
b	Dumping height at 45°	mm	2600
С	Hinge pin height	mm	4345
d	Height top edge of bucket	mm	6475
е	Max. loading height at 45°	mm	3765
	Digging depth	mm	125
	Operating weight	kg	26745



Log grapple (transport & sorting)

	Grapple cross-sectional area	m²	3.1
	Sales code		Q912
	Grapple width	mm	1810
	Payload	kg	8300
	Hinge pin height	mm	4345
b	Reach at max. lifting height at 20° discharge	mm	1985
а	Reach at max. lifting height at 45° discharge	mm	1395
С	Max. grapple opening	mm	3525
d	Discharge height at 45°	mm	2660
е	Discharge height at 20°	mm	3285
f	Max. grapple opening in loading position	mm	3130
g	Manipulation height	mm	5105
h	Max. height	mm	7350
	Operating weight	kg	28800
	Heavy counterweight	(A25)	
	Tyres	26.	5R25 L4



Typical material density (in ton/m³) for light material and high-dump buckets

- M	 •		
Waste glass, fine	1.4	Waste paper, loose	0.6
Waste glass, coarse	1.0	Waste paper, processed	1.0
Compost, dry	0.8	Hard coal, high density	1.2
Compost, wet	1.0	Hard coal, low density	0.9
Wood chips, saw dust	0.5	Domestic waste, loose & dry	0.8

If not stated otherwise, all measurements with tool linkage boom, quick-coupler, tyres 26.5 R25 L3 and additional counterweight (A15)

High-dump bucket (bulk materials)

	Bucket capacity (heaped, ISO 7546)	m³	12.0
	Sales code		Q913
	Material density	t/m³	0.5
	Tube style spill guard		without
	Bucket width	mm	4000
	Bucket weight	kg	4200
	Hinge pin height	mm	4345
а	Reach at 45°	mm	1890
b	Dumping height at 45°	mm	4575
С	Height top edge of bucket	mm	7660
d	Max. loading height at 45°	mm	4850
	Static tipping load, 40° articulated (L3 tyres)	kg	14575
	Static tipping load, 40° articulated (L5 tyres)	kg	15270
	Operating weight (L3 tyres)	kg	28965
	Operating weight (L5 tyres)	kg	30070
_			

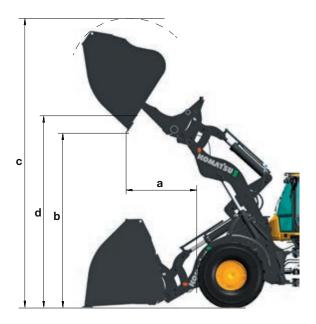
Dump cylinders located inside bucket

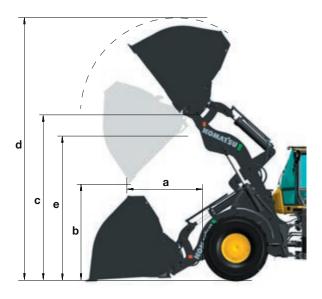
Light material bucket

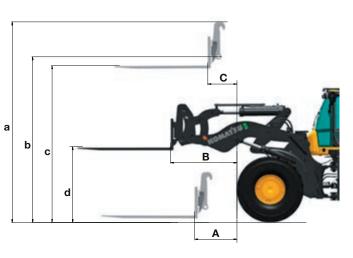
	Bucket capacity (heaped, ISO 7546)	m³	13.0
	Sales code		Q914
	Material density	t/m³	0.5
	Tube style spill guard		without
	Bucket width	mm	4000
	Bucket weight	kg	3900
а	Reach at 45°	mm	1865
b	Dumping height at 45°	mm	2215
С	Hinge pin height	mm	4345
d	Height top edge of bucket	mm	6995
е	Max. loading height at 45°	mm	3780
	Static tipping load, 40° articulated (L3 tyres)	kg	17150
	Static tipping load, 40° articulated (L5 tyres)	kg	14300
	Operating weight (L3 tyres)	kg	28645
	Operating weight (L5 tyres)	kg	29750

Fork tines

	Fork tine length	mm	1500
А	Max. reach at ground level	mm	1150
В	Max. reach	mm	1795
С	Max. reach at max. stacking height	mm	0775
а	Max. height fork-carrier	mm	5295
b	Hinge pin height	mm	4345
С	Max. stacking height	mm	4120
d	Height of forks at maximum reach	mm	1930
	Max. tipping load, straight	kg	20250
	Max. tipping load, articulated	kg	17600
	Max. payload as per EN 474-3, 80%	kg	10000*
	Max. payload as per EN 474-3, 60%	kg	10000*
	Operating weight	kg	25335







* Payload limited by fork tine

Standard and optional equipment

Engine

Komatsu SAA6D125E-7 turbocharged common rail direct injection diesel engine	٠
EU Stage V compliant	•
Komatsu Diesel Particulate Filter (KDPF)	٠
Selective Catalytic Reduction (SCR)	٠
Engine mode selection system	•
Komatsu SmartLoader Logic	٠
Adjustable idle shutdown	٠
Fuel filter with water separator	•
Batteries 2 × 180 Ah / 2 × 12 V	٠

Chassis and tyres

Heavy-duty axles	٠
Front fenders	٠
Full rear fenders	٠
Limited-slip differential (LSD) front and rear	0
Tyres 26.5 R25 L3, L4, L5	0
Tyres 775/65 R29	0

Hydraulic system

Independent control of driveline and work equipment	٠
2-spool main control valve	٠
EPC fingertip control, two levers, including: - Bucket stop modulation - Boom stop pre-setting - Automatic dig function	•
Automatic return-to-dig	٠
3-spool main control valve	0
EPC fingertip control, three levers	0
EPC 1-lever (multifunction lever) with sliding proportional control for attachments	0

Transmission and brakes

Komatsu Hydraulic Mechanical Transmission (K-HMT)	٠
Komatsu traction control system (K-TCS)	٠
Combined brake and inching pedal	٠

Cabin

Spacious double door driver's cab to DIN/ISO	٠
ROPS/FOPS frame according to SAE/ISO	٠
Heated, high back air suspension seat, console mounted height adjustable arm rests	٠
Retractable seat belt	•
Automatic climate control system	•
Multifunction video compatible colour monitor with Equipment Management and Monitoring System (EMMS) and efficiency guidance	•
DAB+ Radio with Bluetooth®, USB, AUX and hands-free kit	٠
Heated rear window	٠
Rear window wiper	٠
Adjustable steering column	٠
2× 12 V power supply	٠
Auto hill-holding function	٠
Heated, high back air suspension seats with pneumatically adjustable lumbar support, console mounted height adjustable arm rests	0
4-point seat belt	0
Sun roller blind	0
Komatsu Short Lever Steering (K-SLS)	0
Advanced Joystick Steering System (AJSS)	0

Lighting system

•
•
•
0
0

Service and maintenance

Hydrostat-driven radiator fan with automatic reversing function	٠
Wide core side-by-side radiator	٠
Komtrax – Komatsu Wireless Monitoring System (4G)	٠
Komatsu Care – a maintenance program for Komatsu customers	٠
Tool-set	٠
Automatic central lubrication	٠
Filling tool for central lubrication system	0
Turbo II air pre-cleaner, cyclone type	0

Safety equipment

Emergency steering system	٠
Vandalism protection	٠
Back-up alarm	٠
Battery main switch	•
Handrails on left/right	٠
Rear-view mirror, heated and remote controlled	٠
Rear-view camera system	٠
Fire extinguisher	0
Beacon (LED)	0
Roof rail	0
Optical back-up alarm (strobe light)	0

Attachments

Hydraulic quick-coupler	0
High efficiency buckets with flat or raised bottom	0
High-dump buckets	0
Fork carrier and tines	0
Waste handling buckets	0
Light material buckets	0

Other equipment

Counterweight (A05)	٠
Electronically controlled load stabilizer (ECSS II)	٠
High-lift equipment w. add. counterweight	0
Aggregate handling linkage	0
Tool linkage	0
Load Pilot with efficiency guidance	0
Special custom colour	0
Additional counterweight (A15)	0
Heavy counterweight (A25)	0
Salt & Chemical specification	0
Waste-handler specification	0
Cold area kit (engine and cab pre-heating)	0

Further equipment on request

• standard equipment

○ optional equipment



A wide range of buckets and attachments is available. Your Komatsu distributor is ready to assist you with the selection of suitable options.

This specification sheet may contain attachments and optional equipment that are not available in your area. Please consult your local Komatsu distributor for those items you may require.

Materials and specifications are subject to change without notice.

Your Komatsu partner:



komatsu.eu