



WA475-11

wheel loader



Innovation



Performance



Efficiency



Reliability



Next-level performance
and economy in a
versatile loader

Photo may include optional equipment

Net horsepower

343 HP (256 kW) @ 1,600 rpm

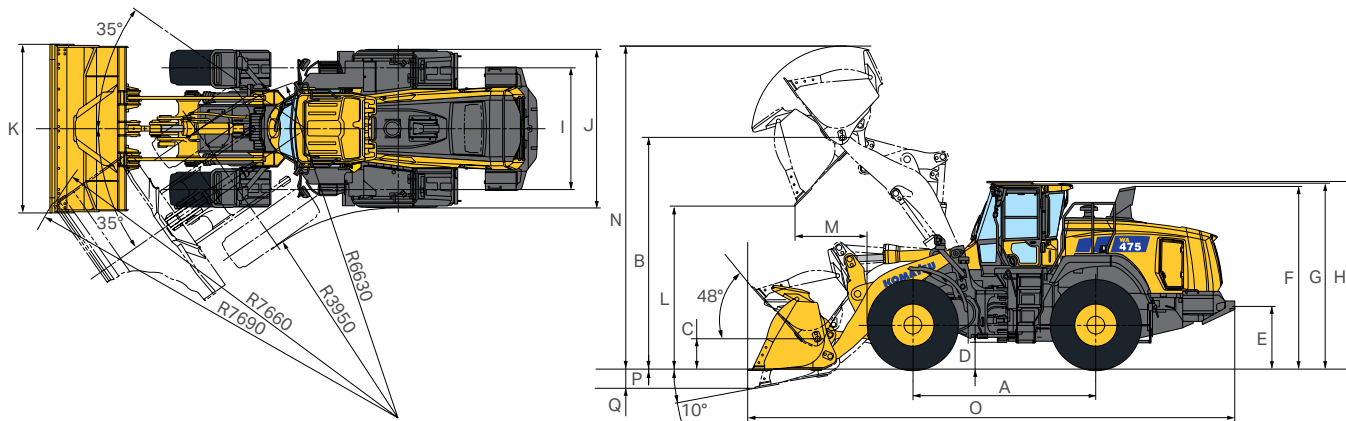
Operating weight

56,482-57,077 lbs. (25,620-25,890 kg)

Bucket capacity

5.5-6.8 yd³ (4.2-5.2 m³)

Dimensions



			Straight edge				High lift boom
			Stock pile BOC * (standard)		Loose material BOC *		Light material BOC *
	Bucket capacity	Heaped ISO rated	5.5 yd³ (4.2 m³)	6.0 yd³ (4.6 m³)	6.3 yd³ (4.8 m³)	6.8 yd³ (5.2 m³)	5.0 yd³ (3.8 m³)
		Heaped 110% fill factor	6.0 yd³ (4.6 m³)	6.7 yd³ (5.1 m³)	6.9 yd³ (5.3 m³)	7.5 yd³ (5.7 m³)	5.5 yd³ (4.2 m³)
		Struck	4.7 yd³ (3.6 m³)	5.2 yd³ (4.0 m³)	5.5 yd³ (4.2 m³)	5.9 yd³ (4.5 m³)	4.2 yd³ (3.2 m³)
A	Wheelbase		11' 3" (3,450 mm)	11' 3" (3,450 mm)	11' 3" (3,450 mm)	11' 3" (3,450 mm)	11' 4" (3,450 mm)
B	Hinge pin height, max. height		14' 3" (4,370 mm)	14' 3" (4,370 mm)	14' 3" (4,370 mm)	14' 3" (4,370 mm)	16' (4,872 mm)
C	Hinge pin height, carry position		1' 9" (580 mm)	1' 9" (580 mm)	1' 9" (580 mm)	1' 9" (580 mm)	2' 5" (730 mm)
D	Ground clearance		1' 7" (505 mm)	1' 7" (505 mm)	1' 7" (505 mm)	1' 7" (505 mm)	1' 8" (505 mm)
E	Hitch height		3' 9" (1,200 mm)	3' 9" (1,200 mm)	3' 9" (1,200 mm)	3' 9" (1,200 mm)	4' 1" (1,235 mm)
F	Overall height, top of the stack		11' 3" (3,450 mm)	11' 3" (3,450 mm)	11' 3" (3,450 mm)	11' 3" (3,450 mm)	11' 4" (3,450 mm)
G	Overall height, ROPS cab		11' 5" (3,500 mm)	11' 5" (3,500 mm)	11' 5" (3,500 mm)	11' 5" (3,500 mm)	11' 6" (3,500 mm)
H	Overall height, top of the roof rail		11' 6" (3,540 mm)	11' 6" (3,540 mm)	11' 6" (3,540 mm)	11' 6" (3,540 mm)	11' 7" (3,540 mm)
I	Tread		7' 7" (2,315 mm)	7' 7" (2,315 mm)	7' 7" (2,315 mm)	7' 7" (2,315 mm)	7' 7" (2,315 mm)
J	Width over tires		10' 5" (3,165 mm)	10' 5" (3,165 mm)	10' 5" (3,165 mm)	10' 5" (3,165 mm)	10' 5" (3,170 mm)
K	Bucket width		10' 4" (3,170 mm)	10' 4" (3,170 mm)	10' 4" (3,170 mm)	10' 4" (3,170 mm)	10' 7" (3,215 mm)
	Bucket weight		4,817 lbs. (2,185 kg)	5,181 lbs. (2,350 kg)	5,313 lbs. (2,410 kg)	5,412 lbs. (2,455 kg)	4,664 lbs. (2,115 kg)
L	Dumping clearance, max. height and 45° dump angle		10' 1" (3,075 mm)	9' 9" (3,010 mm)	9' 8" (2,980 mm)	9' 6" (2,930 mm)	12' (3,645 mm)
M	Reach at max. height and 45° dump angle		4' 4" (1,350 mm)	4' 6" (1,410 mm)	4' 8" (1,450 mm)	4' 9" (1,495 mm)	4' 10" (1,460 mm)
	Reach at 7" (2,130mm) clearance and 45° dump angle		6' 6" (2,020 mm)	6' 7" (2,050 mm)	6' 8" (2,070 mm)	6' 9" (2,095 mm)	8' 3" (2,510 mm)
	Reach with arm horizontal and bucket level		9' 7" (2,935 mm)	9' 9" (3,025 mm)	10' 1" (3,070 mm)	10' 3" (3,145 mm)	10' 11" (3,330 mm)
N	Operating height (fully raised)		20' (6,090 mm)	20' 2" (6,170 mm)	20' 4" (6,210 mm)	20' 6" (6,270 mm)	21' 5" (6,520 mm)
O	Overall length		30' 1" (9,185 mm)	30' 4" (9,270 mm)	30' 6" (9,320 mm)	30' 8" (9,390 mm)	31' 10" (9,705 mm)
	Loader clearance circle diameter (bucket at carry, outside corner of bucket)		25' 2" (7,690 mm)	25' 3" (7,715 mm)	25' 4" (7,730 mm)	25' 4" (7,750 mm)	52' (15,835 mm)
P	Digging depth: 0°		1.2" (30 mm)	1" (30 mm)	1" (30 mm)	1" (30 mm)	9.1" (230 mm)
Q	Digging depth: 10°		1' 2" (375 mm)	1' 3" (385 mm)	1' 3" (395 mm)	1' 4" (410 mm)	1' 7" (480 mm)
	Static tipping load	Straight	45,768 lbs. (20,760 kg)	50,068 lbs. (22,715 kg)	49,800 lbs. (22,590 kg)	44,357 lbs. (20,120 kg)	40,500 lbs. (18,370 kg)
		40° full turn	39,595 lbs. (17,960 kg)	43,157 lbs (19,590 kg)	42,901 lbs. (19,470 kg)	38,272 lbs. (17,360 kg)	34,745 lbs. (15,760 kg)
	Breakout force		197 kN (20,110 kgf)	184 kN (18,800 kgf)	179 kN (18,235 kgf)	171 kN (17,445 kgf)	206 kN (21,049 kgf)
	Operating weight		56,482 lbs. (25,620 kg)	60,395 lbs. (27,395 kg)	60,486 lbs. (27,455 kg)	57,078 lbs. (25,890 kg)	60,451 lbs. (27,420 kg)

All dimensions, weights, and performance values based on 26.5R25(L-3) 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, Additional counterweight ROPS/FOPS(ISO 3471/ISO 3449) 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)

** 775/65R29L3 BS T&R T/L RD wide tire

Specifications

Engine

Model	Komatsu DBA127
Type	Water-cooled, 4-cycle
Aspiration	Turbocharged, aftercooled
Number of cylinders	6
Bore x stroke	5.1" x 6.3" (130 mm x 160 mm)
Piston displacement	12.74 L
Governor	All-speed, electronic
Horsepower	
SAE J1995	Gross 345 HP (257 kW)
ISO 14396	345 HP (257 kW)
ISO 9249/SAE J1349*	Net 343 HP (256 kW)
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 328 HP (245 kW). 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	21' 9" (6,630 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)	+1,929 lbs. (+875 kg)	+1,411 lbs. (+640 kg)	+1,246 lbs. (+565 kg)	+61" (+155 mm)	0" (0 mm)
Remove additional counterweight	-1,797 lbs. (-815 kg)	-4,409 lbs. (-2,000 kg)	-3,682 lbs. (-1,670 kg)	0" (0 mm)	-6.9" (-175 mm)

Hydraulic system

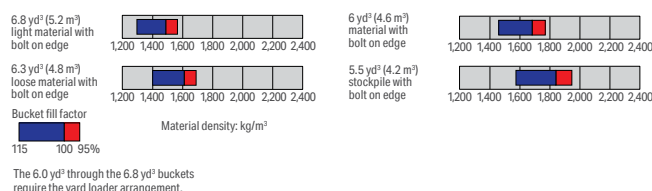
Steering system:	
Hydraulic pump	Piston pump
Capacity	157.7 L/min
Relief valve setting	24.5 MPa 250 kgf/cm ²
Hydraulic cylinders:	
Type	Double-acting, piston type
Number of cylinders	2
Bore x stroke	3.75" x 17.4" (95 mm x 441 mm)
Loader control:	
Hydraulic pump	Piston pump
Capacity	333 L/min
Relief valve setting	35.3 MPa 360 kgf/cm ²
Hydraulic cylinders:	
Type	Double-acting, piston type
Number of cylinders – bore x stroke:	
Lift cylinder	2- 5.9" x 30" (150 mm x 764 mm)
Bucket cylinder	1- 7.1" x 21.25" (180 mm x 540 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	5.7 s
Dump	1.8 s
Lower (empty)	3.1 s

Service refill capacities

Cooling system	17.4 gal (66 L)
Fuel tank	94.8 gal (359 L)
Engine	10.8 gal (41 L)
Hydraulic system	34.8 gal (132 L)
Axle front	15 gal (56.5 L)
rear	15 gal (56.5 L)
Transfer case	10.6 gal (40 L)
DEF tank	15.9 gal (60 L)

Bucket selection guide

The size and type of the bucket will 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.



Equipment

Engine

Engine, Komatsu DBA127	•
Komatsu Diesel Particulate Filter	•
Alternator, 24 V/140 A	•
Starting motor, 24 V/11.0 kW	•
Maintenance free batteries, 2 x 12 V / 136 A	•
Engine air intake pre-cleaner with extension	•

Cab

Seat, air suspension type with reclining	•
Seat mounted 5-way adjustable console right-hand	•
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	•
High-definition color 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	•
Large 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	•
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	•

Standard equipment	•
Optional equipment	○

Safety equipment

Service brakes, wet disc type	•
Back-up alarm	•
Electric controlled mirror with heater	•
Rearview monitoring system	•
Horn, electric	•
Parking brake, electric	•
Anchorage points for tie off	•
Handrails for platform	•
Handrails for roof	•
Front frame step for cleaning window	•
Secondary steering	•
Rear object detection system	•
Seat belt reminder green beacon (external)	•

Tires

26.5R25 (L-3)	•
775/65R29 (L-3)	○

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, three positions	•
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 with extensions	•
Rear full fenders	•
Komtrax	•
ECO guidance	•
Fuel pre-filter with water separator	•
Cutting edge (bolt on type)	○
Limited slip differential (front and rear)	•
Various bucket options	○
Various tire options	○

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