



WA485-11

wheel loader



Innovation



Performance



Efficiency



Reliability



Engineered for high
productivity and low
total cost of ownership

Photo may include optional equipment

Net horsepower

362 HP (270 kW) @ 1,600 rpm

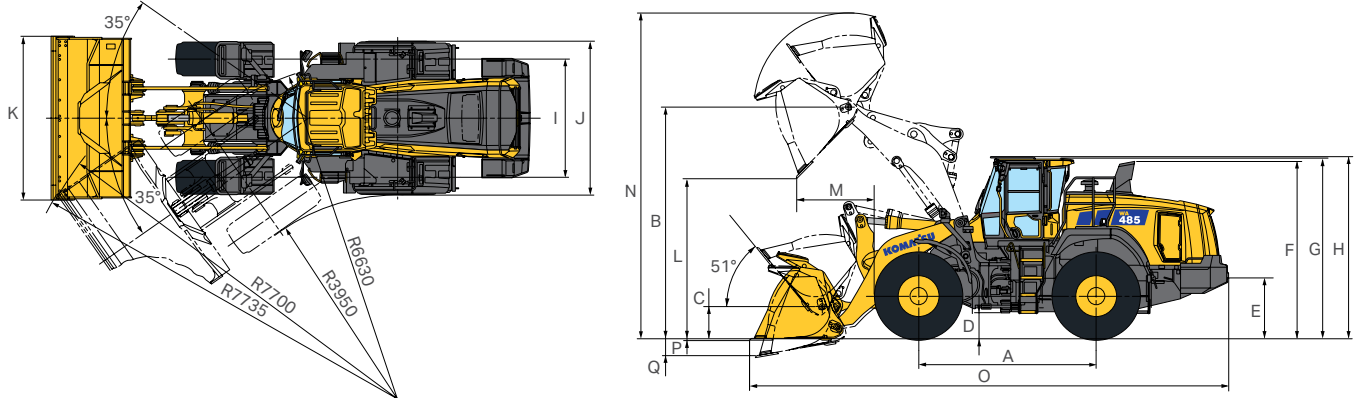
Operating weight

61,432-64,992 lbs. (27,865-29,480 kg)

Bucket capacity

6.4-7.6 yd³ (4.9-5.8 m³)

Dimensions



		Standard boom, straight edge, bolt on cutting edge		High lift boom
		Standard spec Stock pile bucket	Yard loader spec Loose material bucket	High lift spec, bolt on cutting edge Excavating bucket
Bucket capacity	Heaped ISO rated	6.4 yd ³ (4.9 m ³)	7.2 yd ³ (5.5 m ³) or 7.6 yd ³ (5.8 m ³)	6.0 yd ³ (4.6 m ³)
	Heaped 110% fill factor	7.1 yd ³ (5.4 m ³)	8.0 yd ³ (6.1 m ³)	6.7 yd ³ (5.1 m ³)
	Struck	5.5 yd ³ (4.2 m ³)	6.1 yd ³ (4.7 m ³)	5.2 yd ³ (4.0 m ³)
A	Wheelbase	11' 4" (3,450 mm)	11' 4" (3,450 mm)	11' 4" (3,450 mm)
B	Hinge pin height, max. height	14' 9" (4,500 mm)	14' 9" (4,500 mm)	16' 4" (4,981 mm)
C	Hinge pin height, carry position	2' 1" (630 mm)	1' 11" (595 mm)	2' 4" (715 mm)
D	Ground clearance	1' 8" (505 mm)	1' 8" (505 mm)	1' 8" (505 mm)
E	Hitch height	3' 11" (1,200 mm)	3' 11" (1,200 mm)	3' 11" (1,200 mm)
F	Overall height, top of the stack	11' 4" (3,450 mm)	11' 4" (3,450 mm)	11' 4" (3,450 mm)
G	Overall height, ROPS cab	11' 6" (3,500 mm)	11' 6" (3,500 mm)	11' 6" (3,500 mm)
H	Overall height, top of the roof rail	11' 7" (3,540 mm)	11' 7" (3,540 mm)	11' 7" (3,540 mm)
I	Tread	7' 6" (2,300 mm)	7' 7" (2,315 mm)	7' 7" (2,315 mm)
J	Width over tires	10' 1" (3,060 mm)	10' 5" (3,165 mm)	10' 5" (3,170 mm)
K	Bucket width	10' 5" (3,170 mm)	10' 5" (3,170 mm)	10' 7" (3,215 mm)
Bucket weight		5,478.5 lbs. (2,485 kg)	5,699 lbs. (2,585 kg)	5,214 lbs. (2,365 kg)
L	Dumping clearance, max. height and 45° dump angle*	10' 3" (3,115 mm)	9' 11" (3,025 mm)	12' (3,645 mm)
M	Reach at max. height and 45° dump angle*	4' 11" (1,510 mm)	5' 3" (1,600 mm)	4' 8" (1,405 mm)
Reach at 6' 11.8" (2,130 mm) clearance and 45° dump angle*		7' 2" (2,195 mm)	7' 4" (2,245 mm)	8' 3" (2,515 mm)
Reach with arm horizontal and bucket level*		10' 4" (3,150 mm)	10' 9" (3,280 mm)	11' 2" (3,405 mm)
N	Operating height (fully raised)	20' 9" (6,335 mm)	20' 9" (6,315 mm)	22' 2" (6,760 mm)
O	Overall length	30' 7" (9,315 mm, with BOC)	31' 5" (9,575 mm, with BOC)	32' 2" (9,795 mm)
Loader clearance circle diameter (bucket at carry, outside corner of bucket)		25' 4" (7,735 mm)	25' 6" (7,765 mm)	51' 11" (15,820 mm)
P	Digging depth: 0°	1.2" (30 mm)	1.2" (30 mm)	4.7" (120 mm)
Q	Digging depth: 10°	1' 3" (375 mm)	1' 3" (395 mm)	1' 4" (395 mm)
Static tipping load Straight		47,157 lbs. (21,390 kg)	48,954 lbs. (22,205 kg)	47,025 lbs. (21,330 kg)
Static tipping load 40° full turn		40,499 lbs. (18,370 kg)	41,921 lbs. (19,015 kg)	40,543 lbs. (18,390 kg)
Breakout force		207 kN (21,116 kgf)	192 kN (19,543 kgf)	216 kN (21,999 kgf)
Operating weight		61,432-64,992 lbs. (27,865-29,480 kg)	61,432-64,992 lbs. (27,865-29,480 kg)	65,675 lbs. (29,790 kg)

* 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	3.37 gal (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	1.9-23.6 mph (3.0-38.0 km/h)
Reverse	1.9-17.4 mph (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.

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)	+1,312 lbs. (595 kg)	+1,157 lbs. (525 kg)	+6.1" (155 mm)	0" (0 mm)
With additional counterweight*	+1,345 lbs. (610 kg)	+3,188 lbs. (1,446 kg)	+2,652 lbs. (1,203 kg)	0" (0 mm)	+5.3" (135 mm)

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

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)

Hydraulic system

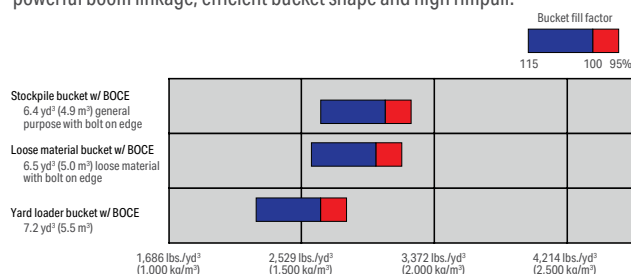
Steering system:	
Hydraulic pump	Piston pump
Capacity	41.7 gal/min (157.7 L/min)
Relief valve setting	3,555 psi (24.5 MPa 250 kgf/cm ²)
Hydraulic cylinders:	
Type	Double-acting, piston type
Number of cylinders	2
Bore x stroke	3.7" x 1' 5" (95 mm x 441 mm)
Loader control:	
Hydraulic pump	Piston pump
Capacity	88 gal/min (333 L/min)
Relief valve setting	5,120 psi (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 2' 8" (150 mm x 818 mm)
Bucket cylinder	1 – 7.1" x 2' 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	17.4 gal (66 L)
Fuel tank	94.8 gal (359 L)
Engine	10.8 gal (41 L)
Hydraulic system	34.9 gal (132 L)
Axle front	14.9 gal (56.5 L)
rear	14.9 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 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.



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 mirrors 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	●

Tires

26.5R25(L-3)	●
775/65 R29(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, 3 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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