NET HORSEPOWER
195 kW **261 HP** @ 2000 rpm

OPERATING WEIGHT
22355– 22490 kg
49,282– 49,579 lb

BUCKET CAPACITY
3.6–5.2 m^3 **4.7–6.8 yd^3**

KOMATSU®

WA450-5

WA 450

WHEEL LOADER

GALEO

SPECIFICATIONS

ENGINE

Model . . . . . .Komatsu SAA6D125E-3
EPA Tier 2 emission ready
Type . . . . . .Water-cooled, 4-cycle
Aspiration . . . . . .Air-to-air aftercooled, turbocharged
Number of cylinders 6
Bore x stroke . . . . . .125 mm x 150 mm **4.9" x 5.9"**
Piston displacement . . . . . 11.04 ltr **674 in³**
Horsepower rating @ 2000 rpm (SAE J1349)
Gross power . . . . . 205 kW **274 HP**
Flywheel/net power . . . . . 195 kW **261 HP**
Fuel system . . . . . Direct injection
Governor . . . . . Electronic, all-speed control
Lubrication system:
Lubrication method . . . . . Gear pump, force-lubrication
Filter . . . . . Full-flow type
Air cleaner . . . . . Dry type with double radial-sealed elements and dust evacuator, plus dust indicator

TRANSMISSION

Torque converter:
Type . . . . . 3-element, single-stage, single-phase
Transmission:
Type . . . . . Full-powershift, countershaft type
Travel speed (measured with 26.5-25 tires):

	1st		2nd		3rd		4th	
	km/h	**mph**	km/h	**mph**	km/h	**mph**	km/h	**mph**
Forward	6.3	**3.9**	12.1	**7.5**	21.7	**13.5**	34.9	**21.7**
Reverse	6.7	**4.2**	12.8	**8.0**	23.0	**14.3**	36.0	**22.4**

AXLES AND FINAL DRIVES

Drive system . . . . . Four-wheel drive
Front . . . . . Fixed, semi-floating
Rear . . . . . Center-pin support, semi-floating, 30° total oscillation
Reduction gear . . . . . Spiral bevel gear
Differential gear . . . . . Conventional type
Final reduction gear . . . . . Planetary gear, single reduction

BRAKES

Service brakes . . . . . Hydraulically actuated, in-board mounted wet disc brakes actuate on four wheels
Parking brake . . . . . Wet disc brake

STEERING SYSTEM

Type . . . . . Articulated type, full-hydraulic power steering
Steering angle . . . . . 40° each direction
Minimum turning radius at
the center of outside tire . . . . . 5900 mm **19'4"**

HYDRAULIC SYSTEM

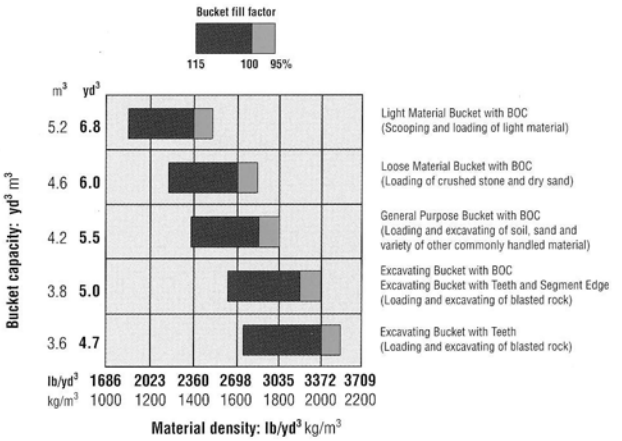
Steering system:
Hydraulic pump . . . . . Gear pump
Capacity . . . . . 146 ltr/min **38.6 U.S. gal/min** at rated rpm
Relief valve setting . . . . . 210 kgf/cm² **3,000 psi**
Hydraulic cylinders:
Type . . . . . Double-acting, piston type
Number of cylinders 2
Bore x stroke . . . . . .100 mm x 441 mm **3.9" x 17.3"**

Loader control:
Hydraulic pump . . . . . Gear pump
Capacity . . . . . 303 + 120 ltr/min **80.0 + 31.7 U.S. gal/min** at rated rpm
Relief valve setting . . . . . 210 kgf/cm² **3,000 psi**
Hydraulic cylinders:
Type . . . . . Double-acting, piston type
Number of cylinders—bore x stroke:
Boom cylinder . . . . . 2—180 mm x 764 mm **7.1" x 30.0"**
Bucket cylinder . . . . . .1—200 mm x 575 mm **7.9" x 22.6"**
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 . . . . . 6.0 sec
Dump . . . . . 1.4 sec
Lower (empty) . . . . . 3.7 sec
Total . . . . . 11.1 sec

SERVICE REFILL CAPACITIES

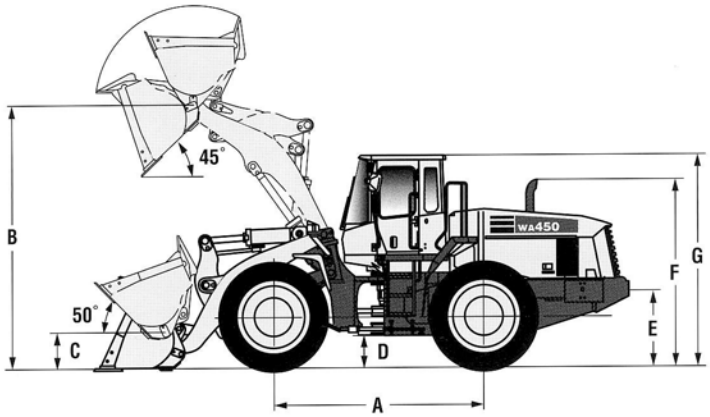
Cooling system . . . . . 50 ltr **13.2 U.S. gal**
Fuel tank . . . . . 390 ltr **103.0 U.S. gal**
Engine . . . . . 38 ltr **10.0 U.S. gal**
Hydraulic system . . . . . 186 ltr **49.1 U.S. gal**
Axle (each front and rear) . . . . . 52 ltr **13.7 U.S. gal**
Torque converter and transmission . . . . . 60 ltr **15.9 U.S. gal**

BUCKET SELECTION GUIDE



DIMENSIONS

Measured with 26.5-25-20PR (L3) tires



	Tread	2300 mm	**7'7"**
	Width over tires	3010 mm	**9'11"**
A	Wheelbase	3450 mm	**11'4"**
B	Hinge pin height, max. height	4360 mm	**14'4"**
C	Hinge pin height, carry position	585 mm	**1'11"**
D	Ground clearance	525 mm	**1'9"**
E	Hitch height	1240 mm	**4'2"**
F	Overall height, top of the stack	3080 mm	**10'2"**
G	Overall height, ROPS cab	3460 mm	**11'5"**

Bucket		**General Purpose Bolt-on Cutting Edge**		**Excavating with Bolt-on Cutting Edge**		**Excavating with Teeth**		**Light Material Bolt-on Cutting Edge**	
Bucket Capacity	Heaped	4.2 m^3	**5.5 yd^3**	3.8 m^3	**5.0 yd^3**	3.6 m^3	**4.7 yd^3**	5.2 m^3	**6.8 yd^3**
	Struck	3.5 m^3	**4.6 yd^3**	3.2 m^3	**4.2 yd^3**	3.1 m^3	**4.1 yd^3**	4.5 m^3	**5.9 yd^3**
Bucket Width		3170 mm	**10'5"**	3170 mm	**10'5"**	3170 mm	**10'5"**	3170 mm	**10'5"**
Bucket Weight		2050 kg	**4,519 lb**	2150 kg	**4,740 lb**	2070 kg	**4,564 lb**	2185 kg	**4,817 lb**
Static Tipping Load	Straight	17985 kg	**39,722 lb**	17885 kg	**39,428 lb**	17965 kg	**39,605 lb**	17850 kg	**39,351 lb**
	40° full turn	15610 kg	**34,413 lb**	15510 kg	**34,192 lb**	15590 kg	**34,369 lb**	15475 kg	**34,096 lb**
Dumping Clearance, maximum height and 45° dump angle		3185 mm	**10'6"**	3235 mm	**10'8"**	3110 mm	**10'3"**	3035 mm	**10'0"**
Reach at **7'** 2130 mm 45° dump angle		1980mm	**6'6"**	1930 mm	**6'4"**	2040mm	**6'8"**	2130 mm	**7'0"**
Reach at maximum height and 45° dump angle		1235 mm	**4'1"**	1255 mm	**4'1"**	1355 mm	**4'5"**	1455 mm	**4'9"**
Operating Height	Fully raised	5960 mm	**19'7"**	5875 mm	**19'4"**	5875 mm	**19'4"**	6185 mm	**20'4"**
Overall Length	Bucket on ground	8815 mm	**28'11"**	8745 mm	**28'8"**	8900 mm	**29'2"**	9025 mm	**29'7"**
Turning Radius*		6980 mm	**22'11"**	6965 mm	**22'10"**	7020 mm	**23'0"**	7040 mm	**23'1"**
Digging Depth	0°	80 mm	**3.2"**	80 mm	**3.2"**	100 mm	**3.9"**	80 mm	**3.2"**
	10°	315 mm	**1'0"**	315 mm	**1'0"**	355 mm	**1'2"**	350 mm	**1'2"**
Breakout Force		192 kN	**43,162 lb**	203 kN	**45,634 lb**	220 kN	**49,456 lb**	165 kN	**37,092 lb**
Operating Weight		22355 kg	**49,282 lb**	22455 kg	**49,502 lb**	22375 kg	**49,326 lb**	22490 kg	**49,579 lb**

*At the end of tooth or B.O.C.

All dimensions, weights, and performance values based on SAE J732c and J742b standards. Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab, additional counterweight, and operator. Machine stability and operating weight affected by counterweight, tire size, and other attachments.

Weight Changes

	Operating Weight		**Tipping Load Straight**		**Tipping Load Full Turn**		**Width Over Tires**		**Ground Clearance**		**Change in Vertical Dimensions**	
	kg	**lb**	kg	**lb**	kg	**lb**	mm	**ft in**	mm	**ft in**	mm	**ft in**
Tires: 26.5-25-20PR(L-4)	+425	**+937**	+330	**+728**	+290	**+639**	3010	**9'11"**	525	**1'9"**	+65	**3"**
Remove ROPS cab	–660	**–1,455**	–610	**–1,345**	–590	**–1,300**						