SPECIFICATIONS

ENGINE

Model	Water-cooled, 4-cycle
Number of cylinders	,
Bore	170 mm
Stroke	170 mm
Piston displacement	
Governor	All-speed, electronic
Horsepower:	' '
	Gross 396 kW 530 HP
ISO 9249 / SAE J1349	Net 395 kW 529 HP
	1800 rpm
Fan drive method for radiator c	oolingHvdraulic
Fuel system	
Lubrication system:	
,	Gear pump, force-lubrication
	Full-flow type
Air cleanerDry	
,	t evacuator, plus dust indicator

*EPA Tier 4 Final emissions certified

TRANSMISSION

Torque converter.......three-elements, one-stage, two-phase Transmission Automatic full-powershift, planetary type

Travel speed	Forward*	Reverse*
1st	6.7 km/h	7.3 km/h
2nd	11.7 km/h (12.4 km/h)	12.8 km/h (13.5 km/h)
3rd	20.3 km/h (21.7 km/h)	22.0 km/h (23.7 km/h)
4th	33.8 km/h (37.7 km/h)	37.0 km/h (41.0 km/h)

*P-mode Measured with 35/65-33 tyres (): Lock-up clutch ON

AXLES AND FINAL DRIVES

	Four-wheel drive
Front	Fixed, full-floating
Rear	Centre-pin support, full-floating,
	22° 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
Emergency brake	One of dual service brake circuits
	is commonly used



STEERING SYSTEM

TypeArticulated type,	fully-hydraulic power steering
Steering angle	43° each direction
Minimum turning radius at	
the centre of outside tyre	7075 mm



HYDRAULIC SYSTEM

Steering system:	
Hydraulic pump	Piston type
Capacity	163 ltr/min at rated rpm
Relief valve setting	34 3 MPa 350 kgf/cm ²
Hydraulic cylinders:	o i.o ivii a ooo ngiyom
Type	Double acting pictor type
Number of cylinders	
Bore x stroke	100 mm x 486 mm
Loader control:	
Hydraulic pump	Pieton numn
Capacity	220 + 220 ltr/min
Capacity	
Delia farata a a ultar	at rated rpm
Relief valve setting	34.3 MPa 350 kgi/cm²
Hydraulic cylinders:	
Type	
Number of cylinders—bore x	
	2- 200 mm x 1067 mm
Bucket cylinder	1- 225 mm x 776 mm
Control valve	
Control positions:	, ,,,
Boom	. Raise, hold, lower, and float
Bucket	
Hydraulic cycle time (rated load	
Raise	
Dump	
Lower (Empty)	4.I S

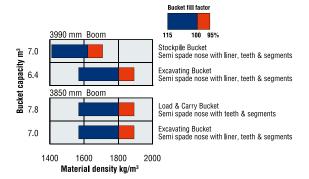


SERVICE REFILL CAPACITIES

Cooling system	150 ltr
Fuel tank	718 ltr
Engine	86 ltr
Hydraulic system	443 ltr
Axle front	185 ltr
rear	193 ltr
Torque converter and transmission	78 ltr
DEE tank	60 ltr



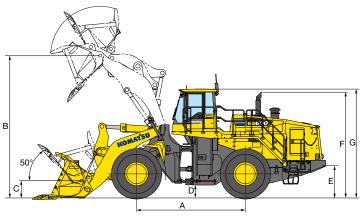
BUCKET SELECTION GUIDE



SPECIFICATIONS

DIMENSIONS

Measured with 35/65-33-36PR (L-4) tyres, ROPS/FOPS cab



Tread width (centre of tread	2650 mm	
Width over tyres		3590 mm
A Wheelbase		4500 mm
B Hinge pin height,	3850 mm boom	5665 mm
max. height	3990 mm boom	5885 mm
C Hinge pin height,	3850 mm boom	670 mm
carry position	3990 mm boom	720 mm
D Ground clearance		525 mm
E Hitch height		1320 mm
F Overall height, top of the sta	ick	4375 mm
G Overall height, ROPS cab		4500 mm

	3990 mi	m Boom	3850 mm Boom			
	Excavating Bucket	Stockpile Bucket	Excavating Bucket	Load & Carry Bucket		
	Spade nose Teeth and BSE *1					
Bucket capacity: heaped	6.4 m ³	7.0 m ³	7.0 m ³	7.8 m ³		
struck	5.3 m ³	5.8 m ³	5.8 m ³	6.6 m ³		
Bucket width	3805 mm	3805 mm	3805 mm	3805 mm		
Bucket weight	5975 kg	6152 kg	6152 kg	5791 kg		
Dumping clearance, max. height and 45° dump angle *2	3965 mm	3915 mm	3700 mm	3615 mm		
Reach at max. height and 45° dump angle *2	1835 mm	1885 mm	1915 mm	2000 mm		
Reach at 2130 mm clearance and 45° dump angle	3030 mm	3065 mm	2920 mm	2970 mm		
Reach with arm horizontal and bucket level*	4175 mm	4245 mm	4105 mm	4225 mm		
Operating height (fully raised)	7925 mm	8040 mm	7280 mm	7885 mm		
Overall length (bucket on ground)	12145 mm	12215 mm	12030 mm	12150 mm		
Loader clearance circle (bucket at carry, outside corner of bucket)	17050 mm	17090 mm	16770 mm	16990 mm		
Digging depth: 0°	130 mm	130 mm	130 mm	130 mm		
10°	530 mm	540 mm	540 mm	560 mm		
Static tipping load: straight	38220 kg	38036 kg	37845 kg	43265 kg		
40° full turn	32675 kg	32520 kg	32805 kg	37080 kg		
Breakout force	385 kN 39500 kgf	370 kN 38200 kgf	375 kN 38600 kgf	355 kN 36200 kgf		
Operating weight	56280 kg	56460 kg	55400 kg	57460 kg		

^{*1} Bolt-on segment edges. *2 At the end of the tooth

All dimensions, weights, and performance values based on SAE J732c and J742b standards.

Static tipping load, operating weight and overall length shown include lubricant, coolant, full fuel tank, ROPS cab, and operator. Machine stability and operating weight affected by counterweight, tyre size, and other attachments.

Apply the following weight changes to operating weight, static tipping load and overall length.



WEIGHT CHANGES

	Operating	Tipping lo	ad straight	Tipping loa	ad full turn	Width	Ground clearance	Change in vertical dimensions
Tyres or attachments	weight	3990 mm Boom	3850 mm Boom	3990 mm Boom	3850 mm Boom	over tyres		
	kg	kg	kg	kg	kg	mm	mm	mm
35/65-R33 (L-4)	-780	-565	-585	-485	-500	3615	460	-65
35/65-R33 (L-5)	-235	-175	-180	-150	-150	3615	460	-65



STANDARD EQUIPMENT

- Air cleaner, double element with dust indicator
- Engine, Komatsu SAA6D170E-7 diesel
- Fuel pre-filter with water separator
- Hydraulic-driven fan with reverse rotation
- KDPF, SCR
- Komatsu SmartLoader Logic
- Pre-cleaner, 2x centrifugal type
- Radiator mask, swing out
- Radiator, modulating core

ELECTRICAL SYSTEM:

- Alternator, 140 A, 24 V
- Batteries, large capacity, 2 x 12 V / 200 Ah
- Circuit breaker
- Komatsu Auto Idle Shutdown
- Lights
 - Access stair lamp, LH side
 - Back-up lights, LED
 - Directional signal
 - Engine bay light.
 - Front work Lamps, 2x Axle, LED, guarded.
 - Front work lamps, 2x Cabin, Halogen.
 - Hazard lamps
 - Head lamps, LH and RH side
 - LED Beacon & Guard.
 - Rear work lamps, 2x Cabin, 2x Radiator,
 - Side work lights, 2x LH and RH Side, LED.
 - Stop and tail lamps, LED and turn signal lamp
- Starting motor, 24 V x 2 / 11.0 kW

CAB:

- 2 x DC12V electrical outlets
- Advanced Steering System
- Auto air conditioner
- AM/FM radio with AUX input jack
- Colour multi-monitor
- Electronically Controlled Suspension System (ECSS)
- Electronic pilot control fingertip control
- Floor mat
- Front wiper (with washer and intermittent)
- Rear defroster (electric)
- Rear window washer and wiper
- ROPS/FOPS (ISO 3471/ISO 3449) cab
- Seat, suspension type with reclining
- Seat belt (two-point)
- Starter receptacle
- Sun visor

SAFETY EQUIPMENT:

- Back-up alarm
- Coxon pressure release radiator cap
- Emergency Egress Gate
- Emergency Stop Switch, 1x Cab, 3x External, ground level
- Emergency/Secondary Steering system
- Engine shutdown secondary switch
- Hand rails for platform
- Handrails, full deck and 100mm kickplates
- Horn, electric
- Lockable battery isolation switch
- Lockable starter isolation switch
- Parking brake, electric
- Rear view mirrors
- Rear view monitoring system
- Service brakes, wet disk type
- Wheel Chock

TYRES:

- 35/65R33(L5) WA600-8
- 35-65R33(L4) WA600-8LC
- Large bore tyre valves

OTHER:

- 2-spool valve for boom and bucket control
- 3990 mm boom
- Additional counterweight (850 kg)
- Automatic digging system
- Automatic Greasing System, ground level refill
- Automatic shift transmission
- Brake cooling system
- Counterweight, standard
- Ecology guidance, ecology gauge
- Engine RPM set system
- Fast-fill Fuel system
- Front fenders
- Inline filters, steering and hydraulic
- Integrated load meter
- Jumpstart Receptacle
- KOMTRAX® with KOMTRAX PLUS® function and ground level download port
- Lift cylinders and bucket cylinder
- Lock-up clutch torque converter
- Modulation clutch
- Powertrain Underguard
- Rear access stair with handrail, RH side.
- Remote boom positioner, in-cab adjustable
- Remote bucket positioner, in-cab adjustable, three positions
- Service centre for Engine, Hydraulic, Transmission Oils (EVAC System).
- Transmission speed ranges, 4 forward and 4 reverse
- Vandalism protection kit
- Work equipment shock reduction control



OPTIONAL EQUIPMENT

- 3850 mm boom
- 3-spool valve with lever and piping
- Additional Lighting
- Bluetooth AM/FM Radio

- Broadband reverse alarm
- Fire extinguishers
- Fire suppression systems

Load-and-carry specification

- Rear Proximity/Reverse Sensors
- **UHF** Radio
- Various bucket options
- Weigh Scale system