

KOMATSU

PW148-11

EU Stage IV Engine

HYDRAULIC WHEELED EXCAVATOR



PW148

ENGINE POWER

90 kW / 121 HP @ 2.100 rpm

OPERATING WEIGHT

14.200 - 17.160 kg

BUCKET CAPACITY

max. 0,86 m³

Walk-Around

PW148-11





INCREASED FUEL EFFICIENCY AND ENVIRONMENTAL PERFORMANCE

Powerful and environmentally friendly

- NEW** • EU Stage IV engine
- NEW** • Adjustable idle shutdown
- Komatsu fuel-saving technology
- Excellent travel performance
- High lift capacity

Total versatility

- Compact design with short tail swing radius
- Ideal for a wide range of applications
- Additional hydraulic circuit
- A wide choice of options

First-class operator comfort

- NEW** • Premium air-suspended operator seat with integrated joystick consoles
- NEW** • Boom suspension system (ECSS)
- NEW** • KomVision surround view system
- NEW** • Improved widescreen monitor
- NEW** • Optional joystick steering system

State of the art controls

- Proportional controls for attachments
- NEW** • Improved, ergonomic switches
- 6 working modes

Easy maintenance

- NEW** • Improved service access
- Extended undercarriage maintenance interval
- Centralised greasing system
- NEW** • User-friendly location of the electric refuelling pump
- NEW** • Simple access to the AdBlue® tank

KOMTRAX

- Komatsu Wireless Monitoring System
- NEW** • 3G mobile communications
- Increased operational data and fuel savings
- NEW** • Integrated communication antenna



A maintenance program
for Komatsu customers

Specifications

ENGINE

Model	Komatsu SAA4D107E-3
Type	Common rail direct injection, water-cooled, emissionised, turbocharged, after-cooled diesel
Engine power	
at rated engine speed	2.100 rpm
ISO 14396	90 kW / 121 HP
ISO 9249 (net engine power)	86 kW / 115 HP
No. of cylinders	4
Bore × stroke	107 × 124 mm
Displacement	4,5 l
Air filter type	Double element type with monitor panel dust indicator and auto dust evacuator
Cooling	Suction type cooling fan with radiator fly screen

HYDRAULIC SYSTEM

Type	HydrauMind. Closed-centre system with load sensing and pressure compensation valves
Additional circuits	Depending on the specification up to 2 additional proportional control & quick coupler circuits can be installed
Main pump	Variable displacement piston pump supplying boom, arm, bucket, swing and travel circuits
Maximum pump flow	252 l/min
Relief valve settings	
Implement	380 kg/cm ²
Travel	420 kg/cm ²
Swing	280 kg/cm ²
Pilot circuit	36 kg/cm ²

BRAKE SYSTEM

Type	Dual circuit hydraulic braking system supplied from a separate gear pump
Service brakes	Pedal actuated wet multi-disc brakes integrated into the axle hubs
Parking brake	Electrically actuated wet multi-disc "spring actuation hydraulic release" brake integrated into the transmission

STEERING SYSTEM

Steering control	Hydraulic steering system supplied from a separate gear pump and controlled through LS orbitrol & priority valves
Minimum turning radius	6.450 mm (to center of outer wheel)

SWING SYSTEM

Type	Axial piston motor driving through planetary double reduction gearbox
Swing lock	Electrically actuated wet multi-disc brake integrated into swing motor
Swing speed	0 - 11 rpm
Swing torque	31 kNm

TRANSMISSION

Type	Fully automatic power shift transmission with permanent 4 wheel drive
Travel motors	One variable displacement axial piston motor
Maximum pressure	380 bar
Travel modes	Automatic + 3 travel modes
Max. travel speeds	
Hi / Lo / Creep	35,0 / 10,0 / 2,5 km/h
	A max. speed restriction of 20 km/h is available as an option
Maximum drawbar pull	8.300 kg
Axle oscillation	10° Lockable in any position from the operator cab

SERVICE REFILL CAPACITIES

Fuel tank	265 l
Radiator	22 l
Engine oil	18 l
Swing drive	2,5 l
Hydraulic tank	169 l
Transmission	3,0 l
Front differential	9,5 l
Rear differential	12,4 l
Front axle hub	2,5 l
Rear axle hub	2,5 l
Swing pinion grease bath amount	10,5 l
AdBlue® tank	29,6 l

ENVIRONMENT

Engine emissions	Fully complies with EU Stage IV exhaust emission regulations
Noise levels	
LwA external	101 dB(A) (2000/14/EC Stage II)
LpA operator ear	69 dB(A) (ISO 6396 dynamic test)
Vibration levels (EN 12096:1997)	
Hand/arm	≤ 2,5 m/s ² (uncertainty K = 0,34 m/s ²)
Body	≤ 0,5 m/s ² (uncertainty K = 0,16 m/s ²)
	Contains fluorinated greenhouse gas HFC-134a (GWP 1430). Quantity of gas 0,9 kg, CO ₂ equivalent 1,29 t

OPERATING WEIGHT (APPR.)

Undercarriage attachment type	Mono boom	Two-piece boom
Without	13.980 kg	14.215 kg
Rear blade	14.710 kg	14.945 kg
Rear outrigger	14.985 kg	15.220 kg
2 outriggers + blade	15.710 kg	15.945 kg
4 outriggers	15.980 kg	16.215 kg

Operating weight, including specified work equipment, 2.500 mm arm, operator, lubricant, coolant, full fuel tank, bucket (475 kg) and the standard equipment.

MAX. BUCKET CAPACITY AND WEIGHT

Arm length	Mono boom		
	2,1 m	2,5 m	3,0 m
Material weight up to 1,2 t/m ³	0,86 m ³ 600 kg	0,80 m ³ 550 kg	0,68 m ³ 500 kg
Material weight up to 1,5 t/m ³	0,73 m ³ 525 kg	0,68 m ³ 500 kg	0,58 m ³ 450 kg
Material weight up to 1,8 t/m ³	0,63 m ³ 475 kg	0,50 m ³ 450 kg	0,50 m ³ 425 kg

Arm length	Two-piece boom		
	2,1 m	2,5 m	3,0 m
Material weight up to 1,2 t/m ³	0,77 m ³ 550 kg	0,71 m ³ 525 kg	0,62 m ³ 475 kg
Material weight up to 1,5 t/m ³	0,65 m ³ 500 kg	0,60 m ³ 475 kg	0,53 m ³ 425 kg
Material weight up to 1,8 t/m ³	0,57 m ³ 450 kg	0,52 m ³ 425 kg	0,45 m ³ 400 kg

Max. capacity and weight have been calculated according to ISO 10567:2007.

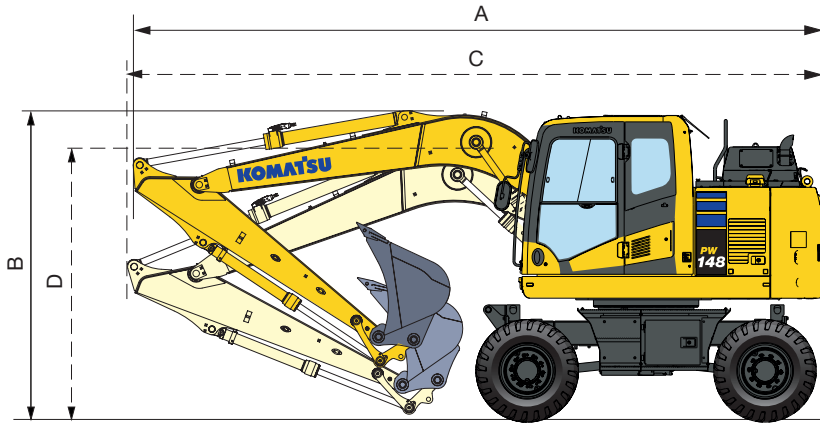
Please consult with your distributor for the correct selection of buckets and attachments to suit the application.

BUCKET AND ARM FORCE

Arm length	2,1 m	2,5 m	3,0 m
Bucket digging force	86 kN	86 kN	86 kN
Bucket digging force at PowerMax	93 kN	93 kN	93 kN
Arm crowd force	74 kN	62 kN	52 kN
Arm crowd force at PowerMax	80 kN	67 kN	56 kN

Dimensions & Performance Figures

MONO BOOM



Driving position

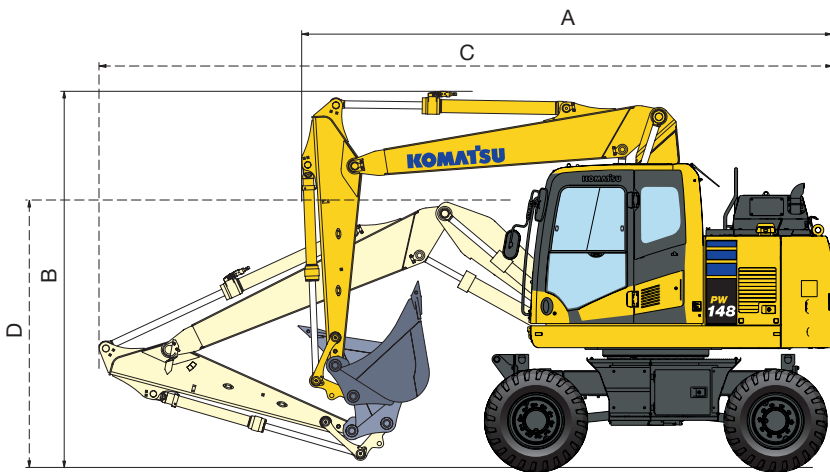
Arm length	A	B
2.100 mm	7.120 mm	3.645 mm
2.500 mm	7.120 mm	3.645 mm
3.000 mm *	7.165 mm	3.665 mm

Transport position

Arm length	C	D
2.100 mm	7.370 mm	2.845 mm
2.500 mm	7.375 mm	2.945 mm
3.000 mm	7.390 mm	3.220 mm

* Driving position without bucket

TWO-PIECE BOOM



Driving position

Arm length	A	B
2.100 mm	5.635 mm	3.970 mm
2.500 mm	5.635 mm	3.970 mm
3.000 mm *	6.155 mm	3.970 mm

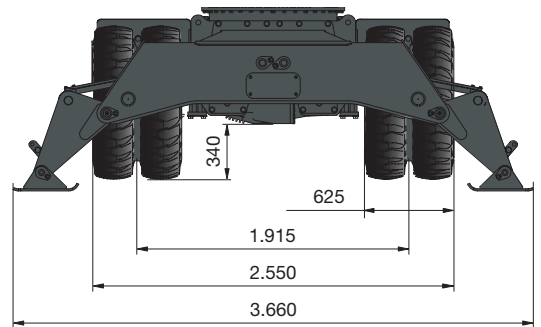
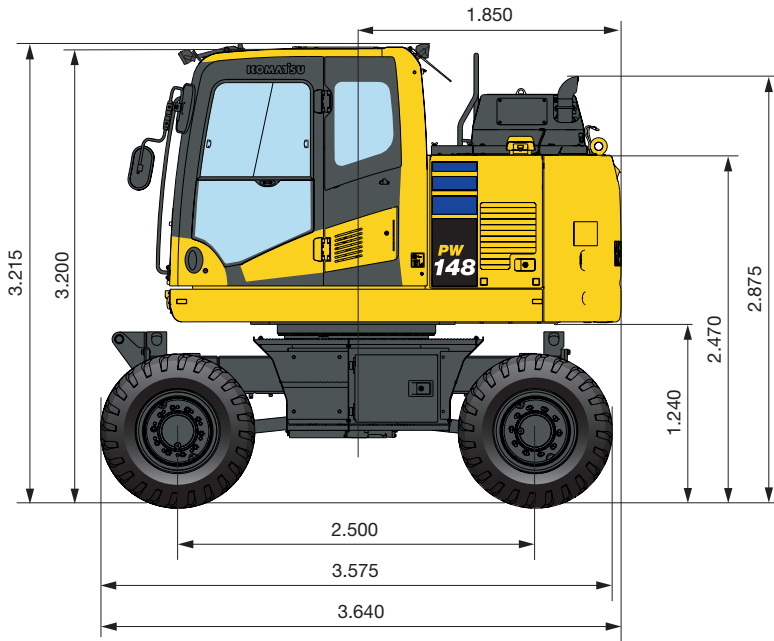
Transport position

Arm length	C	D**
2.100 mm	7.690 mm	3.155 mm
2.500 mm	7.690 mm	3.155 mm
3.000 mm	7.690 mm	3.155 mm

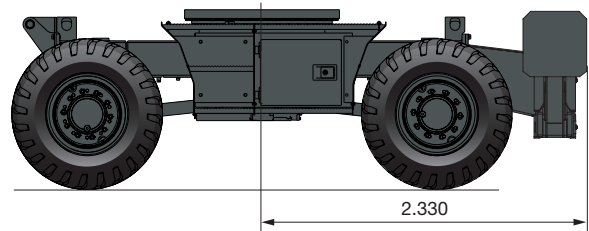
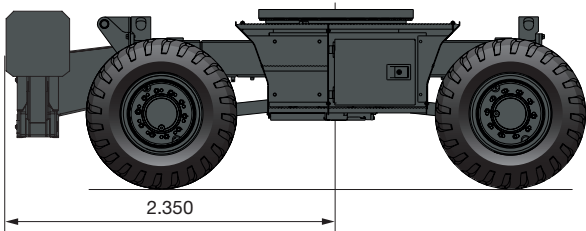
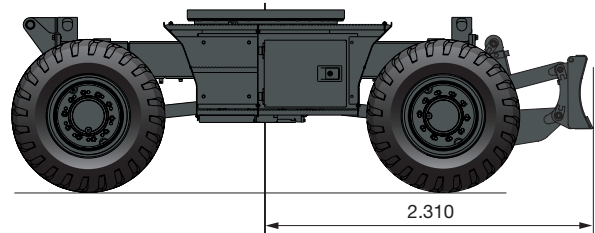
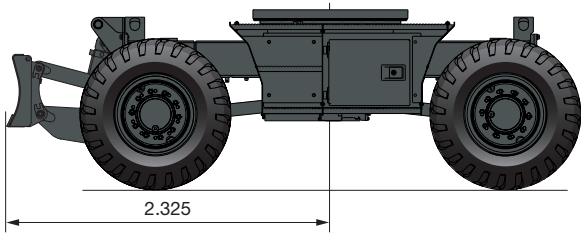
* Driving position without bucket

** Height to top of hose

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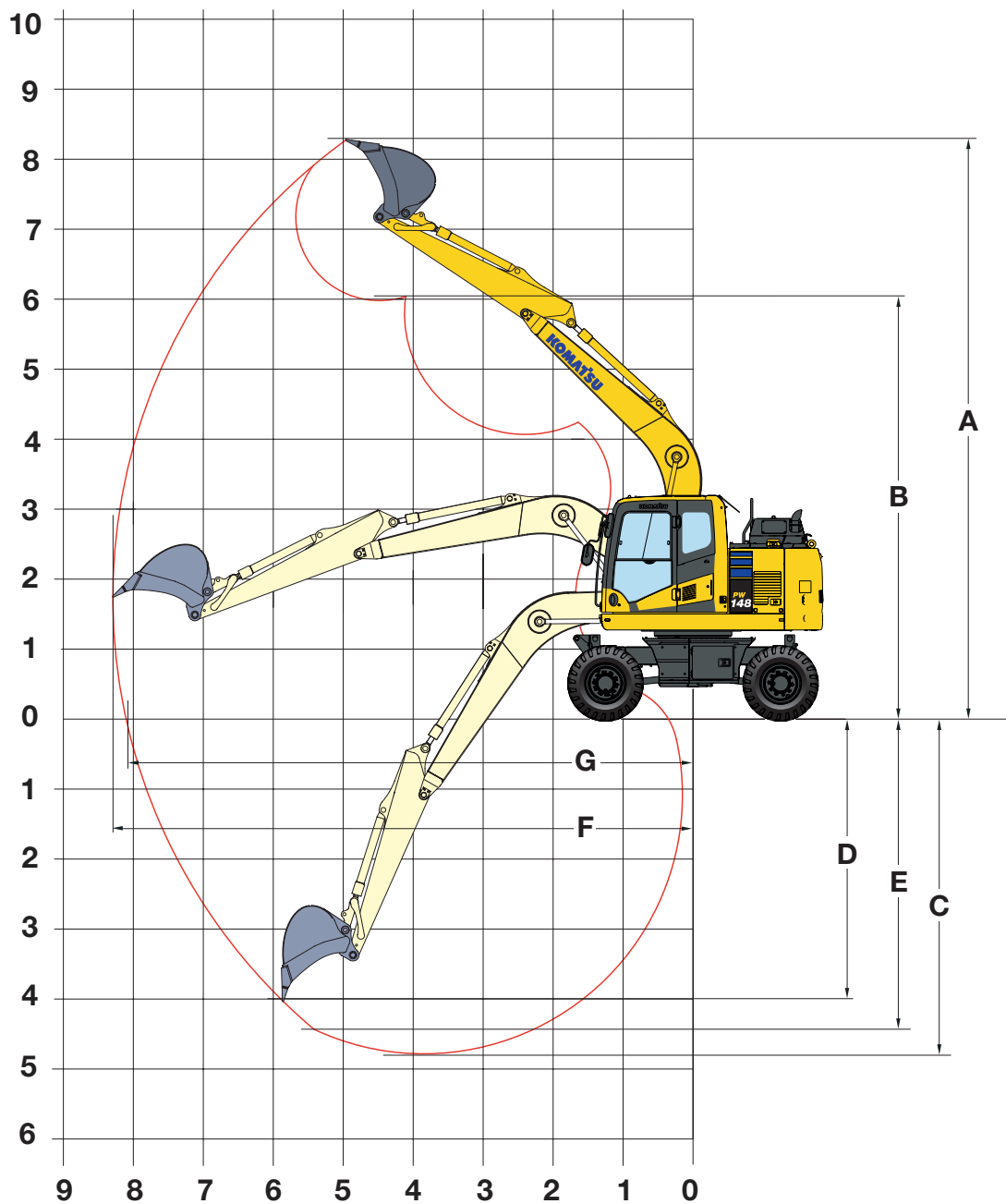
All dimensions with tyres Bandenmarkt Excavator 315/70 R22.5



Working Range

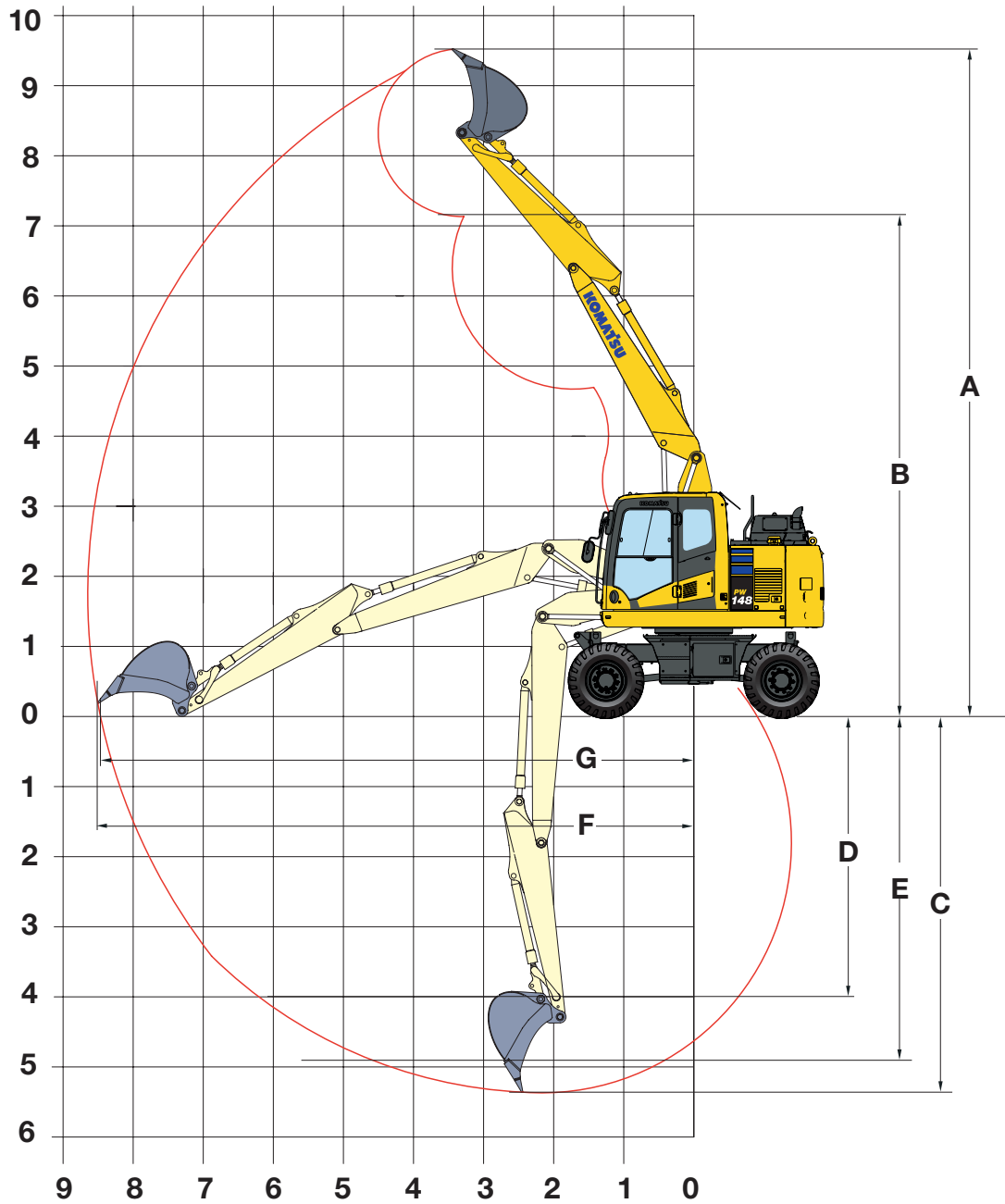
MONO BOOM

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ARM LENGTH	2.100 mm	2.500 mm	3.000 mm
A Max. digging height	7.980 mm	8.270 mm	8.703 mm
B Max. dumping height	5.731 mm	6.020 mm	6.447 mm
C Max. digging depth	4.462 mm	4.860 mm	5.362 mm
D Max. vertical wall digging depth	3.630 mm	4.005 mm	4.470 mm
E Max. digging depth of cut for 2,44 m level	4.025 mm	4.570 mm	4.955 mm
F Max. digging reach	7.907 mm	8.320 mm	8.807 mm
G Max. digging reach at ground level	7.740 mm	8.140 mm	8.640 mm
Min. swing radius	2.965 mm	2.910 mm	2.925 mm




TWO-PIECE BOOM

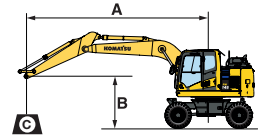


ARM LENGTH	2.100 mm	2.500 mm	3.000 mm
A Max. digging height	9.228 mm	9.518 mm	9.951 mm
B Max. dumping height	6.844 mm	7.133 mm	7.562 mm
C Max. digging depth	5.091 mm	5.489 mm	5.991 mm
D Max. vertical wall digging depth	3.555 mm	4.000 mm	4.495 mm
E Max. digging depth of cut for 2,44 m level	4.515 mm	4.935 mm	5.460 mm
F Max. digging reach	8.268	8.671 mm	9.168 mm
G Max. digging reach at ground level	8.100 mm	8.500 mm	9.000 mm
Min. swing radius	2.590 mm	2.670 mm	2.864 mm

Lifting Capacity

MONO BOOM

Arm length	A B	⊗		7,5 m		6,0 m		4,5 m		3,0 m		1,5 m		
		⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	
 <p>Without stabilizer</p>	2,1 m	7,5 m kg												
		6,0 m kg	*2.850	2.400										
		4,5 m kg	2.500	1.850		2.800	2.100	4.500	3.300					
		3,0 m kg	2.150	1.650		2.800	2.000	4.350	3.000	8.300	5.700			
		1,5 m kg	2.100	1.500		2.700	1.950	4.050	2.950					
		0,0 m kg	2.150	1.600		2.600	1.900	3.750	2.800	7.350	4.900			
	2,5 m	-1,5 m kg	2.450	1.750		2.550	1.800	3.900	2.700	7.350	4.900	*6.350	*6.350	
		-3,0 m kg	3.300	2.250				3.900	2.700	*6.550	5.000			
		7,5 m kg												
		6,0 m kg	*2.350	2.150		*2.550	2.150							
		4,5 m kg	*2.250	1.700		2.850	2.100							
		3,0 m kg	2.100	1.500		2.750	2.100	4.350	3.200	*8.050	5.900			
3,0 m	1,5 m kg	1.950	1.400		2.550	1.950	4.100	3.000	7.800	5.200				
	0,0 m kg	2.000	1.450		2.600	1.850	3.850	2.700	7.350	4.800				
	-1,5 m kg	2.200	1.600		2.550	1.850	3.850	2.700	7.350	4.850	*5.750	*5.750		
	-3,0 m kg	2.700	2.000				3.900	2.750	7.400	4.950				
	7,5 m kg	*2.300	*2.300											
	6,0 m kg	*2.000	1.800		2.900	2.150								
 <p>Front or rear blade</p>	2,1 m	7,5 m kg												
		6,0 m kg	*2.850	2.800										
		4,5 m kg	2.600	2.150		3.000	2.450	5.050	3.900					
		3,0 m kg	2.550	1.950		2.850	2.400	4.800	3.650	*8.850	6.750			
		1,5 m kg	2.400	1.800		3.050	2.300	4.600	3.450					
		0,0 m kg	2.250	1.850		2.700	2.250	4.050	3.300	*7.700	5.850			
	2,5 m	-1,5 m kg	2.650	2.100		2.950	2.250	4.350	3.250	8.300	5.850	*6.350	*6.350	
		-3,0 m kg	3.300	2.750				4.450	3.300	*6.550	6.000			
		7,5 m kg												
		6,0 m kg	*2.350	*2.400		*2.550	2.500							
		4,5 m kg	*2.250	2.000		3.050	2.500							
		3,0 m kg	*2.250	1.800		3.000	2.400	4.900	3.750	*8.050	6.900			
3,0 m	1,5 m kg	2.250	1.700		3.000	2.300	4.650	3.450	8.700	6.200				
	0,0 m kg	2.050	1.750		3.000	2.250	4.450	3.300	*8.150	5.900				
	-1,5 m kg	2.550	1.950		2.550	2.200	4.350	3.250	8.300	5.850	*5.750	*5.750		
	-3,0 m kg	3.200	2.400				4.400	3.250	*7.550	5.900				
	7,5 m kg	*2.300	*2.300											
	6,0 m kg	*2.000	*2.000		3.300	2.550								
 <p>Rear outrigger</p>	2,1 m	7,5 m kg												
		6,0 m kg	*2.850	*2.850										
		4,5 m kg	*2.700	*2.650		3.450	3.150	*5.150	4.900					
		3,0 m kg	*2.700	2.450		3.400	3.050	5.200	4.700	*8.850	*8.850			
		1,5 m kg	2.500	2.350		3.200	3.000	4.700	4.450					
		0,0 m kg	2.550	2.400		3.100	2.900	4.800	4.300	*7.700	*7.700			
	2,5 m	-1,5 m kg	2.900	2.700		2.950	2.850	4.750	4.250	9.000	8.000	*6.350	*6.350	
		-3,0 m kg	*3.500	*3.500				*4.600	4.300	*6.550	*6.550			
		7,5 m kg												
		6,0 m kg	*2.350	*2.350		*2.550	*2.550							
		4,5 m kg	*2.250	*2.250		3.500	3.150							
		3,0 m kg	*2.250	2.250		3.450	3.100	5.050	4.750	*8.050	*8.050			
3,0 m	1,5 m kg	*2.350	2.200		3.250	3.000	5.000	4.500	9.350	8.400				
	0,0 m kg	2.500	2.250		3.100	2.900	4.800	4.350	*8.150	8.000				
	-1,5 m kg	2.750	2.500		3.150	2.850	4.450	4.250	8.900	8.000	*5.750	*5.750		
	-3,0 m kg	3.450	3.150				4.750	4.250	*7.550	*7.550				
	7,5 m kg	*2.300	*2.300											
	6,0 m kg	*2.000	*2.000		*3.300	3.200								
3,0 m	4,5 m kg	*1.850	*1.850		3.300	3.150								
	3,0 m kg	*1.850	*1.850	2.150	2.150	3.400	3.050	4.950	4.800					
	1,5 m kg	*1.950	1.950	2.350	2.100	3.250	2.950	4.650	4.500	9.450	8.450			
	0,0 m kg	2.100	1.950	2.100	2.050	3.150	2.850	4.750	4.250	*8.600	7.950			
	-1,5 m kg	2.250	2.150			2.850	2.750	4.600	4.100	8.750	7.800	*5.000	*5.000	
	-3,0 m kg	2.900	2.600			2.850	2.750	4.600	4.100	*8.400	7.850	*8.050	*8.050	



A – Reach from swing center

B – Bucket hook height

C – Lifting capacities, including bucket linkage (84 kg) and bucket cylinder (96 kg)

⊗ – Rating over front


⊗ – Rating over side

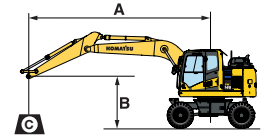
⊗ – Rating at maximum reach

When removing linkage or cylinder, lifting capacities can be increased by their respective weights.

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

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Arm length	A	⊗		7,5 m		6,0 m		4,5 m		3,0 m		1,5 m			
		B	⊗		⊗		⊗		⊗		⊗		⊗		
			⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	
 <p>Outrigger + blade</p>	2,1 m	7,5 m	kg												
		6,0 m	kg	*2.850	*2.850										
		4,5 m	kg	*2.700	*2.700	*4.050	3.950	*5.150	*5.150						
		3,0 m	kg	*2.700	*2.700	*4.850	3.900	*6.050	*6.000	*8.850	*8.850				
		1,5 m	kg	*2.800	*2.800	*5.100	3.750	*6.800	5.800						
		0,0 m	kg	*3.150	3.100	*5.100	3.700	*7.050	5.650	*7.700	*7.700				
	2,5 m	-1,5 m	kg	*3.900	3.450	*4.450	3.650	*6.400	5.550	*9.200	*9.200	*6.350	*6.350		
		-3,0 m	kg	*3.500	*3.500			*4.600	*4.600	*6.550	*6.550				
		7,5 m	kg												
		6,0 m	kg	*2.350	*2.350			*2.550	*2.550						
		4,5 m	kg	*2.250	*2.250			*4.150	4.000						
		3,0 m	kg	*2.250	*2.250	*4.700	3.900	*5.700	*5.700	*8.050	*8.050				
	3,0 m	1,5 m	kg	*2.350	*2.350	*5.050	3.800	*6.650	5.850	*10.050	*10.050				
		0,0 m	kg	*2.650	*2.650	*5.150	3.700	*7.050	5.650	*8.150	*8.150				
		-1,5 m	kg	*3.150	*3.150	*4.750	3.650	*6.700	5.550	*9.800	*9.800	*5.750	*5.750		
		-3,0 m	kg	*3.600	*3.600			*5.250	*5.250	*7.550	*7.550				
		7,5 m	kg												
		6,0 m	kg	*2.000	*2.000			*3.300	*3.300						
	3,0 m	4,5 m	kg	*1.850	*1.850			*3.950	*3.950						
		3,0 m	kg	*1.850	*1.850	*3.050	2.700	*4.350	3.900	*5.150	*5.150				
		1,5 m	kg	*1.950	*1.950	*3.600	2.700	*4.750	3.750	*6.200	5.850	*9.750	*9.750		
		0,0 m	kg	*2.100	*2.100	*3.350	2.650	*5.050	3.600	*6.850	5.550	*8.600	*8.600		
		-1,5 m	kg	*2.500	*2.500	*4.850	3.550	*6.750	5.450	*10.250	*10.250	*5.000	*5.000		
		-3,0 m	kg	*3.300	*3.300	*3.850	3.600	*5.700	5.400	*8.400	*8.400	*8.050	*8.050		



A – Reach from swing center

B – Bucket hook height

C – Lifting capacities, including bucket linkage (84 kg) and bucket cylinder (96 kg)


⊗ – Rating over front

⊗ – Rating over side

⊗ – Rating at maximum reach




When removing linkage or cylinder, lifting capacities can be increased by their respective weights.

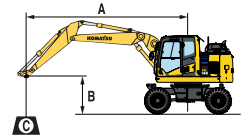
* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

 <p>Outrigger front + rear</p>	2,1 m	7,5 m	kg												
		6,0 m	kg	*2.850	*2.850										
		4,5 m	kg	*2.700	*2.700	*4.050	*4.050	*5.150	*5.150						
		3,0 m	kg	*2.700	*2.700	*4.850	*4.850	*6.050	*6.050	*8.850	*8.850				
		1,5 m	kg	*2.800	*2.800	*5.100	4.800	*6.800	*6.800						
		0,0 m	kg	*3.150	*3.150	*5.100	4.700	*7.050	*7.050	*7.700	*7.700				
	2,5 m	-1,5 m	kg	*3.900	*3.900	*4.450	*4.450	*6.400	*6.400	*9.200	*9.200	*6.350	*6.350		
		-3,0 m	kg	*3.500	*3.500			*4.600	*4.600	*6.550	*6.550				
		7,5 m	kg												
		6,0 m	kg	*2.350	*2.350			*2.550	*2.550						
		4,5 m	kg	*2.250	*2.250			*4.150	*4.150						
		3,0 m	kg	*2.250	*2.250	*4.700	*4.700	*5.700	*5.700	*8.050	*8.050				
	3,0 m	1,5 m	kg	*2.350	*2.350	*5.050	4.800	*6.650	*6.650	*10.050	*10.050				
		0,0 m	kg	*2.650	*2.650	*5.150	4.700	*7.050	*7.050	*8.150	*8.150				
		-1,5 m	kg	*3.150	*3.150	*4.750	4.650	*6.700	*6.700	*9.800	*9.800	*5.750	*5.750		
		-3,0 m	kg	*3.600	*3.600			*5.250	*5.250	*7.550	*7.550				
		7,5 m	kg												
		6,0 m	kg	*2.000	*2.000			*3.300	*3.300						
	3,0 m	4,5 m	kg	*1.850	*1.850			*3.950	*3.950						
		3,0 m	kg	*1.850	*1.850	*3.050	*3.050	*4.350	*4.350	*5.150	*5.150				
		1,5 m	kg	*1.950	*1.950	*3.600	3.400	*4.750	*4.750	*6.200	*6.200	*9.750	*9.750		
		0,0 m	kg	*2.100	*2.100	*3.350	3.300	*5.050	4.450	*6.850	*6.850	*8.600	*8.600		
		-1,5 m	kg	*2.500	*2.500	*4.850	4.550	*6.750	*6.750	*10.250	*10.250	*5.000	*5.000		
		-3,0 m	kg	*3.300	*3.300	*3.850	*3.850	*5.700	*5.700	*8.400	*8.400	*8.050	*8.050		

Lifting Capacity

TWO-PIECE BOOM

Arm length	A B	⊗		7,5 m		6,0 m		4,5 m		3,0 m		1,5 m	
		⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
 Without stabilizer	2,1 m	7,5 m kg	*3.550	3.300					*3.700	3.300			
		6,0 m kg	2.850	2.100		2.850	2.100	*4.050	3.450				
		4,5 m kg	2.250	1.650		2.800	2.100	4.500	3.300				
		3,0 m kg	1.950	1.500		2.700	2.000	4.250	3.050				
		1,5 m kg	1.950	1.350		2.550	1.900	4.000	2.700				
		0,0 m kg	1.950	1.450		2.550	1.800	3.850	2.700				
	-1,5 m kg	2.200	1.600		2.550	1.800	3.800	2.650	7.250	4.800			
	-3,0 m kg												
	2,5 m	7,5 m kg	*2.850	2.750				*3.950	3.450				
		6,0 m kg	*2.400	1.850		2.950	2.150						
		4,5 m kg	2.100	1.500		2.900	2.100	4.350	3.350				
		3,0 m kg	1.800	1.350	1.950	1.400	2.800	2.050	4.350	3.150			
1,5 m kg		1.800	1.300	1.950	1.400	2.550	1.900	4.050	2.850				
0,0 m kg		1.800	1.350	1.900	1.350	2.550	1.800	3.600	2.700	*5.450	4.750		
-1,5 m kg	2.050	1.450			2.550	1.800	3.800	2.650	7.200	4.700			
-3,0 m kg	2.650	1.850					3.750	2.700					
3,0 m	7,5 m kg	*2.300	2.150										
	6,0 m kg	*2.000	1.600		2.950	2.150							
	4,5 m kg	1.800	1.300	1.950	1.400	2.850	2.100	*3.850	3.400				
	3,0 m kg	1.650	1.200	1.950	1.350	2.700	2.000	4.150	3.150				
	1,5 m kg	1.550	1.100	1.850	1.350	2.600	1.850	4.050	2.850				
	0,0 m kg	1.600	1.150	1.800	1.250	2.400	1.700	3.750	2.600	*5.700	4.650		
-1,5 m kg	1.700	1.200	1.800	1.250	2.300	1.700	3.650	2.550	7.000	4.550	*3.900	*3.900	
-3,0 m kg	2.100	1.500			2.350	1.650	3.650	2.550	7.050	4.600			
 Front or rear blade	2,1 m	7,5 m kg	*3.550	*3.550					*3.700	*3.650			
		6,0 m kg	*2.900	2.400		*3.050	2.450	*4.050	3.950				
		4,5 m kg	2.550	1.950		3.200	2.450	5.000	3.800				
		3,0 m kg	2.100	1.750		3.100	2.350	4.750	3.600				
		1,5 m kg	2.050	1.650		3.000	2.250	4.500	3.350				
		0,0 m kg	2.100	1.700		2.700	2.200	4.350	3.200				
	-1,5 m kg	2.250	1.900		2.900	2.150	4.300	3.150	8.250	5.750			
	-3,0 m kg												
	2,5 m	7,5 m kg	*2.850	*2.850				*3.950	*3.950				
		6,0 m kg	*2.400	2.200		3.300	2.550						
		4,5 m kg	2.250	1.800		3.250	2.500	4.750	3.900				
		3,0 m kg	2.150	1.650	2.100	1.700	3.000	2.400	4.800	3.650			
1,5 m kg		2.100	1.550	2.200	1.650	2.750	2.250	4.550	3.400				
0,0 m kg		2.100	1.600	1.950	1.650	2.650	2.200	4.350	3.200	*5.450	*5.450		
-1,5 m kg	2.100	1.750			2.700	2.150	4.300	3.150	8.150	5.700			
-3,0 m kg	3.000	2.250					4.350	3.200					
3,0 m	7,5 m kg	*2.300	*2.300										
	6,0 m kg	*2.000	1.850		3.150	2.550							
	4,5 m kg	*1.900	1.550	2.150	1.650	3.250	2.450	*3.850	*3.850				
	3,0 m kg	1.650	1.400	2.100	1.650	3.100	2.350	4.850	3.650				
	1,5 m kg	1.800	1.350	2.100	1.600	2.850	2.250	4.200	3.350				
	0,0 m kg	1.850	1.350	2.100	1.500	2.850	2.100	4.300	3.150	*5.700	5.600		
-1,5 m kg	2.000	1.500	2.050	1.500	2.700	2.050	4.200	3.000	*7.800	5.550	*3.900	*3.900	
-3,0 m kg	2.100	1.800			2.800	2.050	4.200	3.000	*7.800	5.600			
 Rear outrigger	2,1 m	7,5 m kg	*3.550	*3.550					*3.700	*3.650			
		6,0 m kg	*2.900	*2.950		*3.050	*3.000	*4.050	*4.000				
		4,5 m kg	*2.700	2.500		3.450	3.150	5.000	4.900				
		3,0 m kg	2.400	2.250		3.300	3.000	5.100	4.650				
		1,5 m kg	2.350	2.150		3.200	2.900	4.850	4.350				
		0,0 m kg	2.400	2.250		3.100	2.850	4.700	4.200				
	-1,5 m kg	2.750	2.500		3.150	2.850	4.650	4.200	*8.500	7.950			
	-3,0 m kg												
	2,5 m	7,5 m kg	*2.850	*2.850				*3.950	*3.950				
		6,0 m kg	*2.400	*2.400		3.500	3.200						
		4,5 m kg	*2.300	*2.300		3.500	3.150	*4.950	*4.950				
		3,0 m kg	*2.250	2.100	2.400	2.200	3.400	3.050	5.200	4.700			
1,5 m kg		2.250	2.000	2.400	2.100	3.300	2.950	4.900	4.400				
0,0 m kg		2.250	2.100	2.350	2.100	3.150	2.850	4.700	4.200	*5.450	*5.450		
-1,5 m kg	2.550	2.250			2.950	2.800	4.650	4.200	8.100	7.850			
-3,0 m kg	3.200	2.900					4.700	4.200					
3,0 m	7,5 m kg	*2.300											
	6,0 m kg	*2.000			3.550	3.200							
	4,5 m kg	*1.900		2.400	2.150	3.450	3.150	*3.850	*3.850				
	3,0 m kg	*1.850		2.400	2.100	3.350	3.000	5.200	4.700				
	1,5 m kg	*1.900		2.300	2.100	3.200	2.850	4.900	4.400				
	0,0 m kg	2.000		2.250	2.000	3.100	2.750	4.650	4.150	*5.700	*5.700		
-1,5 m kg	2.200		2.250	2.000	3.000	2.700	4.500	4.050	*7.800	7.650	*3.900	*3.900	
-3,0 m kg	2.600				2.850	2.700	4.250	4.050	*7.800	7.700			



A – Reach from swing center

B – Bucket hook height

C – Lifting capacities, including bucket linkage (84 kg) and bucket cylinder (96 kg)

⊗ – Rating over front


⊗ – Rating over side

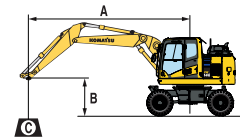
⊗ – Rating at maximum reach

When removing linkage or cylinder, lifting capacities can be increased by their respective weights.

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

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Arm length	A	B											
		7,5 m		6,0 m		4,5 m		3,0 m		1,5 m			
		Rating at maximum reach	Rating over front	Rating at maximum reach	Rating over front	Rating at maximum reach	Rating over front	Rating at maximum reach	Rating over front	Rating at maximum reach	Rating over front		
 <p>Outrigger + blade</p>	2,1 m	7,5 m	kg	*3.550	*3.550			*3.700	*3.700				
		6,0 m	kg	*2.900	*2.900			*3.050	*3.050	*4.050	*4.050		
		4,5 m	kg	*2.700	*2.700			*4.100	3.950	*5.200	*5.200		
		3,0 m	kg	*2.700	*2.700			*4.350	3.850	*5.850	*5.850		
		1,5 m	kg	*2.750	2.700			*4.700	3.750	*6.850	5.700		
		0,0 m	kg	*3.050	2.850			*5.050	3.650	*6.900	5.550		
	-1,5 m	kg	*3.550	3.150			*4.450	3.600	*6.200	5.500	*8.500	*8.500	
	-3,0 m	kg											
	2,5 m	7,5 m	kg	*2.850	*2.850			*3.950	*3.950				
		6,0 m	kg	*2.400	*2.400			*3.750	*3.750				
		4,5 m	kg	*2.300	*2.300			*4.000	*4.000	*4.950	*4.950		
		3,0 m	kg	*2.250	*2.250	*3.350	2.650	*4.200	3.900	*5.600	*5.600		
		1,5 m	kg	*2.350	*2.350	*3.600	2.700	*4.600	3.750	*6.600	5.750		
		0,0 m	kg	*2.550	*2.550	*3.350	2.700	*5.000	3.650	*6.950	5.550	*5.450	*5.450
	-1,5 m	kg	*2.950	2.900			*4.700	3.600	*6.450	5.500	*8.600	*8.600	
	-3,0 m	kg	*3.400	*3.400					*5.100	*5.050			
	3,0 m	7,5 m	kg	*2.300	*2.300								
		6,0 m	kg	*2.000	*2.000			*3.700	*3.700				
4,5 m		kg	*1.900	*1.900	*3.000	2.700	*3.750	*3.750	*3.850	*3.850			
3,0 m		kg	*1.850	*1.850	*3.250	2.700	*4.000	3.850	*5.200	*5.200			
1,5 m		kg	*1.900	*1.900	*3.350	2.650	*4.300	3.700	*6.050	5.750			
0,0 m		kg	*2.050	*2.050	*3.600	2.600	*4.700	3.600	*6.800	5.500	*5.700	*5.700	
-1,5 m	kg	*2.350	*2.350	*3.250	2.550	*4.750	3.500	*6.550	5.400	*7.800	*7.800		
-3,0 m	kg	*2.800	*2.800			*3.850	3.550	*5.550	5.400	*7.800	*7.800		




A – Reach from swing center

B – Bucket hook height

C – Lifting capacities, including bucket linkage (84 kg) and bucket cylinder (96 kg)


 – Rating over front

 – Rating over side

 – Rating at maximum reach

When removing linkage or cylinder, lifting capacities can be increased by their respective weights.

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

 <p>Outrigger front + rear</p>	2,1 m	7,5 m	kg	*3.550	*3.550			*3.700	*3.700				
		6,0 m	kg	*2.900	*2.900			*3.050	*3.050	*4.050	*4.050		
		4,5 m	kg	*2.700	*2.700			*4.100	*4.100	*5.200	*5.200		
		3,0 m	kg	*2.700	*2.700			*4.350	*4.350	*5.850	*5.850		
		1,5 m	kg	*2.750	*2.750			*4.700	*4.700	*6.850	*6.850		
		0,0 m	kg	*3.050	*3.050			*5.050	4.350	*6.900	*6.900		
	-1,5 m	kg	*3.550	*3.550			*4.450	*4.450	*6.200	*6.200	*8.500	*8.500	
	-3,0 m	kg											
	2,5 m	7,5 m	kg	*2.850	*2.850			*3.950	*3.950				
		6,0 m	kg	*2.400	*2.400			*3.750	*3.750				
		4,5 m	kg	*2.300	*2.300			*4.000	*4.000	*4.950	*4.950		
		3,0 m	kg	*2.250	*2.250	*3.350	*3.350	*4.200	*4.200	*5.600	*5.600		
		1,5 m	kg	*2.350	*2.350	*3.600	3.300	*4.600	*4.600	*6.600	*6.600		
		0,0 m	kg	*2.550	*2.550	*3.350	*3.350	*5.000	4.650	*6.950	*6.950	*5.450	*5.450
	-1,5 m	kg	*2.950	*2.950			*4.700	4.650	*6.450	*6.450	*8.600	*8.600	
	-3,0 m	kg	*3.400	*3.400					*5.100	*5.100			
	3,0 m	7,5 m	kg	*2.300	*2.300								
		6,0 m	kg	*2.000	*2.000			*3.700	*3.700				
4,5 m		kg	*1.900	*1.900	*3.000	*3.000	*3.750	*3.750	*3.850	*3.850			
3,0 m		kg	*1.850	*1.850	*3.250	*3.250	*4.000	*4.000	*5.200	*5.200			
1,5 m		kg	*1.900	*1.900	*3.350	3.150	*4.300	*4.300	*6.050	*6.050			
0,0 m		kg	*2.050	*2.050	*3.600	3.050	*4.700	4.600	*6.800	*6.800	*5.700	*5.700	
-1,5 m	kg	*2.350	*2.350	*3.250	3.050	*4.750	4.250	*6.550	*6.550	*7.800	*7.800		
-3,0 m	kg	*2.800	*2.800			*3.850	*3.850	*5.550	*5.550	*7.800	*7.800		

Notes

PW 148-11



Standard and Optional Equipment

ENGINE

Komatsu SAA4D107E-3 turbocharged common rail direct injection diesel engine	●
EU Stage IV compliant	●
Suction type cooling fan	●
Automatic engine warm-up system	●
Engine overheat prevention system	●
Auto-deceleration function	●
Adjustable idle shutdown	●
Engine ignition can be password secured on request	●
Alternator 24 V/85 A	●
Starter motor 24 V/4,5 kW	●
Batteries 2 × 12 V/125 Ah	●

HYDRAULIC SYSTEM

Electronic closed-centre load sensing (E-CLSS) hydraulic system (HydrauMind)	●
Pump and engine mutual control (PEMC) system	●
6-working mode selection system; power mode, economy mode, breaker mode, attachment power and attachment economy mode, and lifting mode	●
PowerMax function	●
Adjustable PPC wrist control levers for arm, boom, bucket and swing, with sliding proportional control for attachments and 5 auxiliary buttons, with FNR switch	●
Additional hydraulic circuit (HCU-B)	●
Additional hydraulic circuit (HCU-C)	○
Extension HCU-C to HCU-D	○
Boom suspension system (ECSS)	○
Prepared for hydraulic quick-coupler	○

UNDERCARRIAGE

Parallel blade (front and/or rear) with cylinder protection	○
2 or 4 outriggers with cylinder protection, individually adjustable	○
Twin tyres 10.00-20 16 PR	○
Twin tyres Bandenmarkt Excavator 315/70 R22.5	○
Twin tyres Nokian 10-20 (L5)	○
Single tyres Michelin 18.00-19.5	○
Tyres Bandenmarkt Grader 315/70 R22.5	○
Fenders	○

CABIN

SpaceCab™; Highly pressurised and tightly sealed hyper viscous mounted cab with tinted safety glass windows, large roof window with sun shade, pull-up type front window with locking device, removable lower window, front window wiper with intermittent feature, sun roller blind, cigarette lighter, luggage shelf, floor mat	●
Heated air suspension seat with lumbar support, arm rests and retractable seat belt	●
Automatic climate control system	●
12/24 Volt power supplies	●
Beverage holder and magazine rack	●
Hot and cool box	●
CD radio with auxiliary input (MP3 jack)	○
Heated, adjustable, suspended seat	○
Lower wiper	○
Rain visor (not with OPG)	○
Joystick steering system	○

SAFETY EQUIPMENT

KomVision surround view system	●
Electric horn	●
Overload warning device	●
Lockable fuel cap and covers	●
Audible travel alarm	●
Large handrails, rear-view mirrors	●
Battery main switch	●
Boom safety valves	●
Arm safety valve	●
Adjust cylinder safety valve	●
OPG Level II front guard (FOPS)	○
OPG Level II top guard (FOPS)	○
Audible travel alarm (white noise version)	○

LIGHTING SYSTEM

Working lights: 3 revolving frame, 1 counterweight (rear)	●
Additional RH & LH boom lamp	○
LED working lights	○
Beacon + rear facing cab lamp	○
Additional large capacity cab roof lights (4)	○
2 additional LED working lights boom foot	○

SERVICE AND MAINTENANCE

Automatic fuel line de-aeration	●
Double element type air cleaner with dust indicator and auto dust evacuator	●
KOMTRAX – Komatsu wireless monitoring system (3G)	●
Multifunction video compatible colour monitor with Equipment Management and Monitoring System (EMMS) and efficiency guidance	●
Toolkit	●
Komatsu CARE™ – a maintenance program for Komatsu customers	●
Centralised greasing system	●
Automatic greasing system	○

DRIVES AND BRAKES

Fully automatic 3-speed transmission driving through front and rear planetary axles	●
Oscillating front axle (10°) with automatic and manual cylinder locking	●
Cruise control	●
20, 25 or 35 km/h speed limitation	○
Transmission guard	○

WORK EQUIPMENT

Mono boom	○
Two-piece boom	○
2,1 m; 2,5 m; 3,0 m arms	○
Clamshell grip bar	○
Lehnhoff quick-couplers	○
Lehnhoff buckets	○

OTHER EQUIPMENT

Standard counterweight	●
Electric refuelling pump with automatic shut off function	●
Single chassis tool box	●
Additional chassis tool box	○
Biodegradable oil for hydraulic system	○
Customised paint	○

Further equipment on request

- standard equipment
- optional equipment

Your Komatsu partner:

KOMATSU

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