

Specifications



Engine

Model	HINO J08E-UN
Type	Direct injection, water-cooled, 4-cycle, 6-cylinder diesel engine with intercooler turbo-charger
No. of cylinders	6
Bore and stroke	112 mm X 130 mm
Displacement	7.684 L
Rated power output	191 kW/2,100 min ⁻¹ (with fan)
	200 kW/2,100 min ⁻¹ (ISO 9249: without fan)
Max. torque	979 N•m/1,600 min ⁻¹ (with fan)
	998 N•m/1,600 min ⁻¹ (ISO 9249: without fan)



Hydraulic System

Pump	
Type	Two variable displacement piston pumps + one gear pump
Max. discharge flow	2 x 294 L/min, 1 x 21 L/min
Relief valve setting	
Boom, arm and bucket	34.3 MPa {350 kgf/cm ² }
Power Boost	37.8 MPa {385 kgf/cm ² }
Travel circuit	34.3 MPa {350 kgf/cm ² }
Swing circuit	29.0 MPa {296 kgf/cm ² }
Control circuit	5.0 MPa {50 kgf/cm ² }
Pilot control pump	Gear type
Main control valves	8-spool
Oil cooler	Air cooled type



Swing System

Swing motor	Axial-piston motor
Brake	Hydraulic; locking automatically when the swing control lever is in neutral position
Parking brake	Wet multiple plate
Swing speed	10.2 min ⁻¹ {rpm}



Attachments

Backhoe bucket and arm combination (reference only)

Use	Backhoe bucket			
		Normal digging		
Bucket capacity	ISO heaped	m ³	1.9	1.6
	ISO struck	m ³	1.45	1.2
Opening width	With side cutters	mm	1,740	1,470
	Without side cutters	mm	1,740	1,470
No. of bucket teeth			5	5
Bucket weight		kg	2,070	1,570
Combinations	Short 2.60 m arm		○	–
	Long 3.30 m arm		–	○

○ Recommended



Travel System

Travel motors	Variable displacement piston pump
Travel brakes	Hydraulic
Parking brakes	Wet multiple plate
Travel shoes	48 each side
Travel speed	5.6/3.3 km/h
Drawbar pulling force	320 kN (SAE)
Gradeability	70% {35°}



Cab & Control

Cab
All-weather, sound-suppressed steel cab mounted on the high suspension mounts filled with silicone oil and equipped with a heavy, insulated floor mat.
Control
Two hand levers and two foot pedals for travel
Two hand levers for excavating and swing
Electric rotary-type engine throttle



Boom, Arm & Bucket

Boom cylinders	140 mm x 1,550 mm
Arm cylinder	170 mm x 1,788 mm
Bucket cylinder	150 mm x 1,193 mm



Refilling Capacities & Lubrications

Fuel tank	503 L
Cooling system	35 L
Engine oil	26.0 L
Travel reduction gear	2 x 8.0 L
Swing reduction gear	7.4 L
Hydraulic oil tank	245 L tank oil level
	407 L hydraulic system

Specifications



Working Ranges

Unit: m

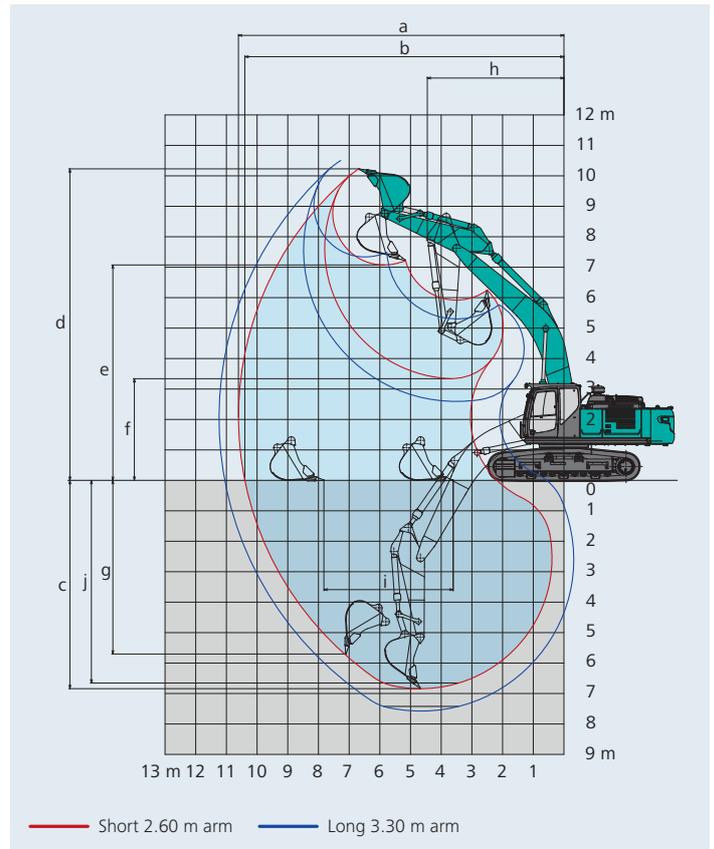
Boom	6.50 m	
	Arm	
Range	Short 2.60 m	Standard 3.30 m
a- Max. digging reach	10.61	11.26
b- Max. digging reach at ground level	10.40	11.06
c- Max. digging depth	6.84	7.56
d- Max. digging height	10.23	10.54
e- Max. dumping clearance	7.07	7.37
f- Min. dumping clearance	3.34	2.62
g- Max. vertical wall digging depth	5.70	6.48
h- Min. swing radius	4.46	4.31
i- Horizontal digging stroke at ground level	4.21	5.82
j- Digging depth for 2.4 m (8') flat bottom	6.65	7.40
Bucket capacity ISO heaped m ³	1.90	1.60

Digging Force (ISO 6015)

Unit: kN

Arm length	Short 2.60 m	Standard 3.30 m
Bucket digging force	229 252*	
Arm crowding force	207 228*	165 182*

*Power Boost engaged.



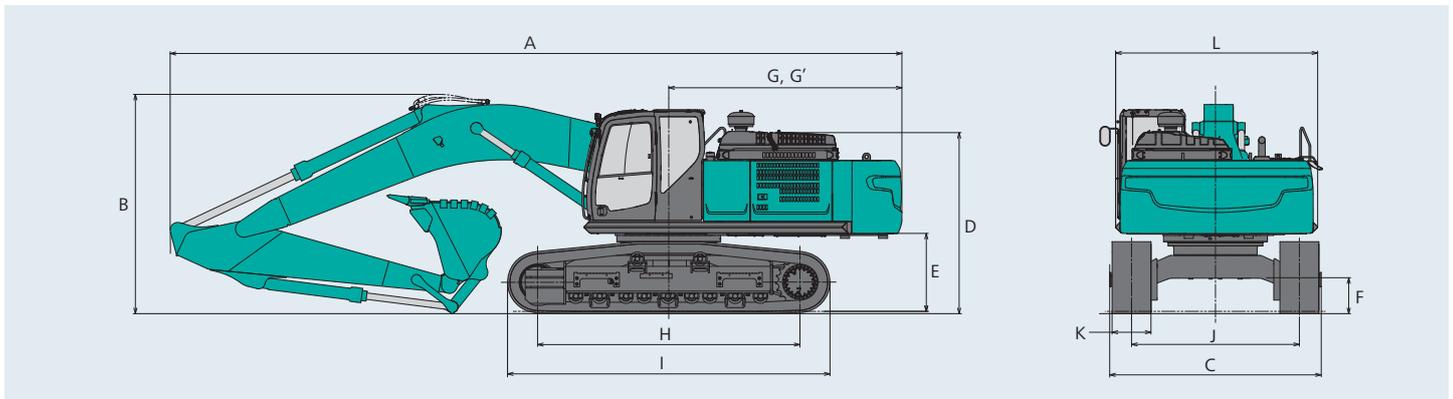
Dimensions

Arm length	Short 2.60 m	Standard 3.30 m
A Overall length	11,380	11,290
B Overall height (to top of boom)	3,690	3,410
C Overall width	3,260	
D Overall height (to top of cab)	3,170	
E Ground clearance of rear end*	1,210	
F Ground clearance*	515	

Unit: mm

G Tail swing radius	3,600
G' Distance from center of swing to rear end	3,600
H Tumbler distance	4,050
I Overall length of crawler	4,970
J Track gauge	2,590
K Shoe width	600
L Overall width of upperstructure	3,120

*Without including height of shoe.

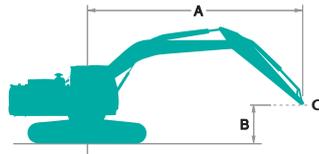


Operating Weight & Ground Pressure

In standard trim, with standard boom, 3.30 m arm, and 1.60 m³ ISO heaped bucket

Shaped		Triple grouser shoes (even height)
Shoe width	mm	600
Overall width	mm	3,260
Ground pressure	kPa	72
Operating weight	kg	38,300

Lift Capacities



A: Reach from swing centerline to arm top
 B: Arm top height above/below ground
 C: Lift point
 Relief valve setting: 34.3 MPa (350 kgf/cm²)

SK380XDLC		Short arm: 2.60 m Bucket: without Counterweight: 8,590 kg Shoe: 600 mm HD										
B \ A		3.0 m		4.5 m		6.0 m		7.5 m		At Max. Reach		
												Radius
7.5 m	kg									*7,820	*7,820	7.06 m
6.0 m	kg					*8,360	*8,360	*7,670	*7,670	*7,600	7,050	8.00 m
4.5 m	kg			*12,020	*12,020	*9,330	*9,330	*8,030	7,640	*7,570	6,180	8.58 m
3.0 m	kg					*10,480	10,030	*8,580	7,330	*7,640	5,730	8.87 m
1.5 m	kg					*11,380	9,530	*9,060	7,060	*7,760	5,580	8.89 m
G.L.	kg			*15,850	13,890	*11,760	9,260	*9,280	6,880	*7,920	5,710	8.66 m
-1.5 m	kg			*15,040	13,940	*11,490	9,200	*9,020	6,850	*8,050	6,190	8.15 m
-3.0 m	kg	*16,970	*16,970	*13,400	*13,400	*10,390	9,330			*8,060	7,270	7.29 m
-4.5 m	kg	*12,820	*12,820	*10,360	*10,360					*7,570	*7,570	5.95 m

SK380XDLC		Short arm: 3.30 m Bucket: without Counterweight: 8,590 kg Shoe: 600 mm HD														
B \ A		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		At Max. Reach		
																Radius
9.0 m	kg													*5,700	*5,700	6.58 m
7.5 m	kg									*6,870	*6,870			*5,220	*5,220	7.88 m
6.0 m	kg									*6,980	*6,980			*5,040	*5,040	8.72 m
4.5 m	kg					*10,740	*10,740	*8,590	*8,590	*7,460	*7,460	*6,880	5,720	*5,050	*5,050	9.25 m
3.0 m	kg					*13,360	*13,360	*9,840	*9,840	*8,110	7,340	*7,140	5,570	*5,220	5,090	9.52 m
1.5 m	kg					*15,270	14,230	*10,940	9,550	*8,730	7,020	*7,420	5,410	*5,550	4,960	9.54 m
G.L.	kg					*15,900	13,760	*11,570	9,180	*9,120	6,790	*7,540	5,300	*6,130	5,050	9.32 m
-1.5 m	kg			*14,010	*14,010	*15,550	13,670	*11,610	9,030	*9,120	6,680			*7,090	5,400	8.84 m
-3.0 m	kg	*15,940	*15,940	*19,520	*19,520	*14,350	13,810	*10,930	9,070	*8,450	6,730			*7,530	6,170	8.06 m
-4.5 m	kg			*15,830	*15,830	*12,010	*12,010	*9,110	*9,110					*7,420	*7,420	6.86 m

Notes:

- Do not attempt to lift or hold any load that is greater than these lift capacities at their specified lift point radius and heights. Weight of all accessories must be deducted from the above lift capacities.
- Lift capacities are based on machine standing on level, firm, and uniform ground. User must make allowance for job conditions such as soft or uneven ground, out of level conditions, side loads, sudden stopping of loads, hazardous conditions, experience of personnel, etc.
- Arm top pin is defined as lift point.
- The above lift capacities are in compliance with ISO 10567. They do not exceed 87% of hydraulic lift capacity or 75% of tipping load. Lift capacities marked with an asterisk (*) are limited by hydraulic capacity rather than tipping load.
- Operator should be fully acquainted with the Operator's and Maintenance Instructions before operating this machine. Rules for safe operation of equipment should be adhered to at all times.
- Lift capacities apply to only machine as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.