SK500XDLC-10 SK520XDLC-10

Specifications

Engine

Model	HINO P11C-WF
Type	Water-cooled, 4-cycle 6-cylinder direct injection type diesel engine with intercooler turbo-charger
No. of cylinders	6
Bore and stroke	122 mm × 150 mm
Displacement	10.52 L
Rated power output	257 kW/1,850 min^{-1} (ISO 14396)
Max. torque	1,400 N·m/1,400 min^{-1} (ISO 14396)

Hydraulic System

Pump	
Type	Two variable displacement pumps + One gear pump
Max. discharge flow	2 × 370 L/min
Relief valve setting	
Excavating circuits (main)	31.4 MPa
Power Boost	34.3 MPa
Travel circuit	34.3 MPa
Swing circuit	26.0 MPa
Pilot control circuit	5.0 MPa
Pilot control pump	Gear type
Main control valve	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, hydraulic operated automatically
Swing speed	7.6 min^{-1}

Travel System

Travel motors	Variable displacement piston pump
Travel brakes	Hydraulic
Parking brakes	Wet multiple plate
Travel shoes	50 each side
Travel speed (high/low)	5.4/3.4 km/h
Drawbar pulling force	415 kN
Gradeability	70% (35 deg)

Cab & Control

Cab

International Comfort Cab with dust free enclosure and with internal pressure of 97 Pa (earlier cab 27 Pa). 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		170 mm × 1,590 mm
Arm cylinder		190 mm × 1,970 mm
Bucket cylinder	ME 2.6 m arm	170 mm × 1,429 mm
	Short 3.0 m arm	160 mm × 1,410 mm

Refilling Capacities & Lubrications

Fuel tank	638 L
Cooling system	47.4 L
Engine oil	42.5 L
Travel reduction gear	2 × 15 L
Swing reduction gear	2 × 5 L
Hydraulic oil tank	371 L tank oil level
	631 L hydraulic system

Attachments

Backhoe bucket and combination

Use			Backhoe bucket			
			General digging	Heavy digging	Mass Excavating	
Bucket capacity	ISO heaped	m^3	2.1	2.5	3.1	3.4
Opening width	With side cutters	mm	1,570	1,820	1,760	1,900
	Without side cutters	mm	1,470	1,700	1,670	1,810
No. of teeth			5	5	5	6
Bucket weight		kg	2,470	2,850	2,320	2,410
Combination	ME 6.5 m boom and ME 2.6 m arm		—	—	○	○
	Short arm 3.0 m with 9,800 kg counterweight		○	—	—	—
	Short arm 3.0 m with 11,200 kg counterweight		○	○	—	—

○ Recommended — Not applicable

Specifications

Working Ranges

Unit: m

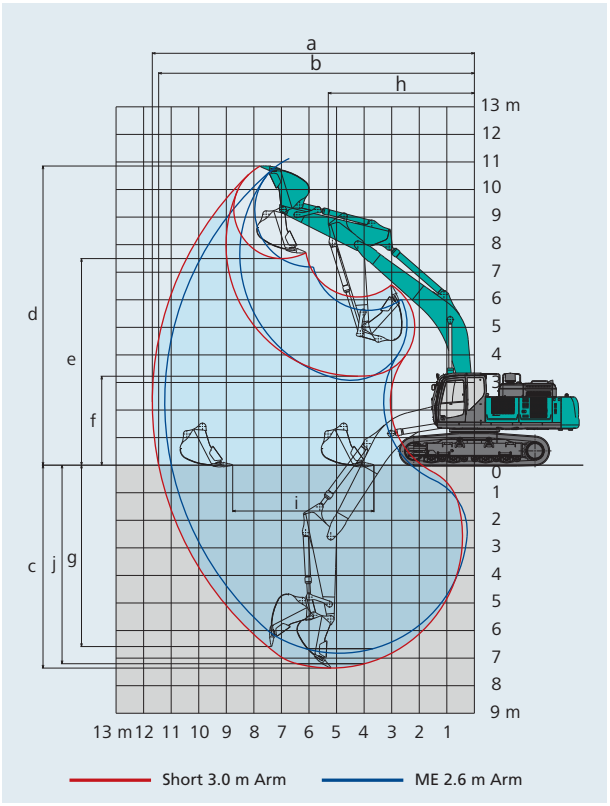
Boom	ME 6.5 m	7.0 m
Arm / Range	ME 2.6 Arm	Short 3.0 Arm
a- Max. digging reach	11.25	11.69
b- Max. digging reach at ground level	11.01	11.45
c- Max. digging depth	6.82	7.36
d- Max. digging height	11.12	10.85
e- Max. dumping clearance	7.18	7.49
f- Min. dumping clearance	3.07	3.23
g- Max. vertical wall digging depth	6.09	6.58
h- Min. swing radius	4.96	5.31
i- Horizontal digging stroke at ground level	3.87	5.12
j- Digging depth for 2.4 m(8') flat bottom	6.66	7.20
Bucket capacity ISO heaped m³	3.40	2.10

Digging Force (ISO 6015)

Unit: kN

Arm length	ME 2.6 Arm	Short 3.0 Arm
Bucket digging force	282/308*	267/292*
Arm crowding force	239/261*	223/244*

*Power Boost engaged.



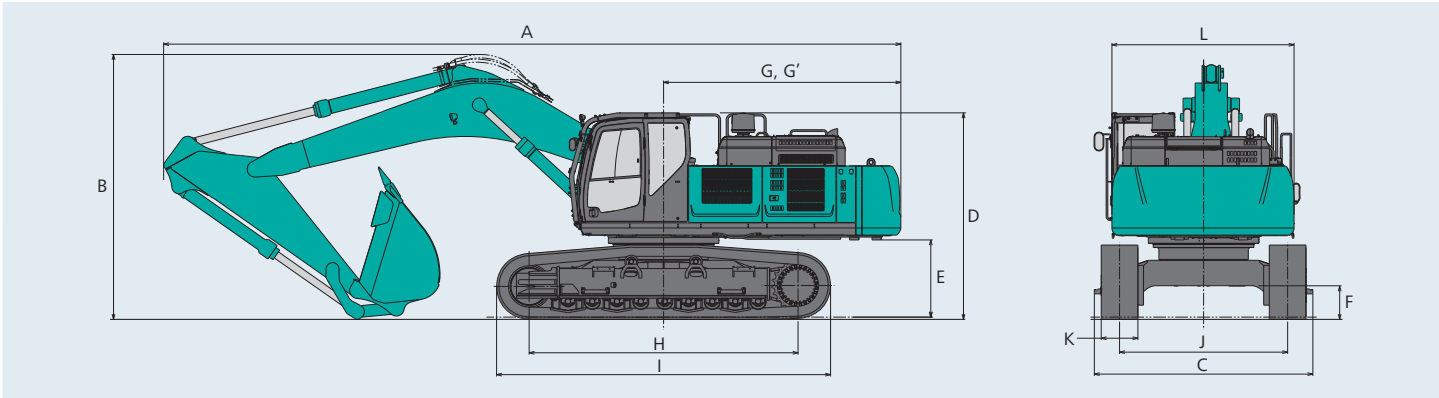
Dimensions

Arm length		ME 2.6 Arm	Short 3.0 Arm
A	Overall length	12,060	12,210
B	Overall height (to top of boom)	4,330	3,780
C	Overall width	3,580	
D	Overall height (to top of cab)	3,380	
E	Ground clearance of rear end*	1,260*	
F	Ground clearance*	510*	

Unit: mm

G	Tail swing radius	SK500XDLC	3,800
		SK520XDLC	3,880
G'	Distance from center of swing to rear end	SK500XDLC	3,800
		SK520XDLC	3,880
H	Tumbler distance		4,400
I	Overall length of crawler		5,460
J	Track gauge		2,750
K	Shoe width		600
L	Overall width of upperstructure		2,980

*Without including height of shoe lug.



Operating Weight & Ground Pressure

In standard trim, with ME 6.5 m boom, ME 2.6 m arm, 3.4 m³ ISO heaped bucket, and 11,200 kg counterweight

Shaped		Triple grouser shoes (even height)
Shoe width	mm	600
Overall width of crawler	mm	3,350
Ground pressure	kPa	90
Operating weight	kg	52,700

In standard trim, with 7.0 m boom, 3.0 m arm, 2.1 m³ ISO heaped bucket, and 9,800 kg counterweight

Shaped		Triple grouser shoes (even height)
Shoe width	mm	600
Overall width of crawler	mm	3,350
Ground pressure	kPa	88
Operating weight	kg	51,200

Lift Capacities

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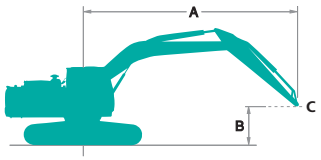

Rating over front

Rating over side or 360 degrees

A: Reach from swing centerline to arm top
B: Arm top height above/below ground
C: Lift point
Relief valve setting: 31.4 MPa

SK500XDLC		Boom: 7.0 m Arm: 3.0 m Bucket: without Counterweight: 9,800 kg Shoe: 600 mm HD												
A / B		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		At Max. Reach		Radius
9.0 m												*9,660	*9,660	7.25 m
7.5 m	kg							*9,450	*9,450			*9,000	*9,000	8.41 m
6.0 m	kg							*9,900	*9,900	*9,400	8,360	*8,770	8,050	9.18 m
4.5 m	kg			*17,250	*17,250	*12,830	*12,830	*10,770	*10,770	*9,690	8,170	*8,810	7,270	9.65 m
3.0 m	kg					*14,720	14,020	*11,780	10,280	*10,190	7,900	*9,100	6,850	9.88 m
1.5 m	kg					*16,150	13,300	*12,660	9,850	*10,660	7,660	*9,660	6,730	9.86 m
G.L.	kg			*16,970	*16,970	*16,830	12,930	*13,190	9,570	*10,910	7,520	*10,140	6,900	9.62 m
-1.5 m	kg	*13,370	*13,370	*22,030	19,750	*16,710	12,850	*13,180	9,480	*10,620	7,520	*10,410	7,410	9.11 m
-3.0 m	kg	*23,860	*23,860	*20,270	20,070	*15,710	13,000	*12,350	9,610			*10,620	8,490	8.31 m
-4.5 m	kg	*21,890	*21,890	*17,130	*17,130	*13,320	*13,320					*10,520	*10,520	7.10 m

SK520XDLC		Boom: ME 6.5 m Arm: ME 2.6 m Bucket: without Counterweight: 11,200 kg Shoe: 600 mm HD												
A / B		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		At Max. Reach		Radius
9.0 m												*11,140	*11,140	6.24 m
7.5 m	kg							*10,760	*10,760			*9,660	*9,660	7.56 m
6.0 m	kg					*11,590	*11,590	*10,570	*10,570			*8,980	*8,980	8.41 m
4.5 m	kg					*13,110	*13,110	*11,200	*11,200			*8,700	*8,700	8.93 m
3.0 m	kg					*14,840	*14,840	*12,050	11,050	*10,630	8,480	*8,720	8,240	9.17 m
1.5 m	kg					*16,170	14,450	*12,790	10,660	*10,850	8,320	*9,010	8,130	9.15 m
G.L.	kg					*16,720	14,110	*13,150	10,430			*9,640	8,410	8.88 m
-1.5 m	kg			*21,550	*21,550	*16,350	14,090	*12,790	10,430			*10,810	9,220	8.34 m
-3.0 m	kg	*24,720	*24,720	*19,170	*19,170	*14,750	14,360					*10,670	*10,670	7.45 m
-4.5 m	kg			*14,540	*14,540							*9,500	*9,500	6.06 m

Notes:

1. 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.
2. 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.
3. Arm top defined as lift point.
4. 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.
5. 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.
6. Lift capacities apply to only machine as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.
7. The above figures indicate machine capacity, but in practice the machine should not be used for lifting loads.