

# Specifications

## Engine

Model	ISUZU MOTORS LIMITED 4JJ1XDJA
Type	Four cycle, water cooled, overhead camshaft, vertical in-line, direct injection type, with turbocharger
No. of cylinders	4
Bore and stroke	95.4 mm x 104.9 mm
Displacement	2.999 L
Rated power output	65.4 kW/2,000 min <sup>-1</sup> (ISO 9249: with fan) 73.0 kW/2,000 min <sup>-1</sup> (ISO 14396: without fan)
Max. torque	341 N·m/1,600 min <sup>-1</sup> (ISO 9249: with fan) 365 N·m/1,600 min <sup>-1</sup> (ISO 14396: without fan)

## Hydraulic system

Pump	
Type	Two variable displacement axial piston pumps + one gear pump
Max. discharge flow	2 x 130 L/min 1 x 20 L/min
Relief valve setting	
Boom, arm and bucket	34.3 MPa
Travel circuit	34.3 MPa
Swing circuit	28.0 MPa
Control circuit	5.0 MPa
Pilot control pump	Gear type
Main control valves	12-spool
Oil cooler	Air cooled type

## Swing system

Swing motor	One fixed displacement piston pump
Brake	Hydraulic; locking automatically when the swing control lever is in the neutral position
Parking brake	Wet multiple plate
Swing speed	11.0 min <sup>-1</sup>

## Attachments

Backhoe bucket and combination

Use	Backhoe bucket											
	Normal digging											
Bucket capacity	ISO heaped	m <sup>3</sup>	0.24	0.31	0.38	0.45	0.45*	0.50	0.50**	0.50***	0.57	0.57**
	Struck	m <sup>3</sup>	0.20	0.23	0.28	0.35	0.35	0.37	0.35	0.37	0.43	0.40
Opening width	With side cutter	mm	590	700	800	915	915	1,000	1,030	1,000	1,100	1,150
	Without side cutter	mm	500	640	740	855	855	940	945	940	1,040	1,070
No. of teeth			3	3	4	4	4	5	5	5	5	5
Bucket weight		kg	280	300	340	360	430	390	420	420	410	450
Combination	2.38 m arm		○(○)	○(○)	○(○)	○(○)	○(○)	◎(◎)	○(○)	○(○)	△(△)	△(△)
	2.84 m arm		○(○)	○(○)	◎(◎)	△(△)	△(△)	×(×)	×(×)	×(×)	×(×)	×(×)

◎ Standard ○ Recommended △ Loading only × Not recommended

\*Bottom plate reinforcement, \*\*Side pin, \*\*\*For demolition  
( ) = SK135SR(LC)

## Travel system

Travel motors	Variable displacement axial piston typex2 pcs with Counter Balance Valve
Travel brakes	Hydraulic brake
Parking brakes	Wet multiple plate
Travel shoes	44 each side
Travel speed	3.4/5.6 km/h
Drawbar pulling force	141 kN (SAE)
Gradeability	70% [35°]

## Cab & control

Cab	
All-weather, sound-suppressed steel cab mounted on the silicon-sealed viscous mounts 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	100 mm x 1,092 mm
Arm cylinder	115 mm x 1,116 mm
Bucket cylinder	100 mm x 903 mm

## Refilling capacities & lubrications

Fuel tank	186 L
Cooling system	17 L
Engine oil	17 L
Travel reduction gear	2 x 2.1 L
Swing reduction gear	1.65 L
Hydraulic oil tank	89.9 L tank oil level
	176 L hydraulic system

## Working ranges

Boom		4.68 m	
	Arm	2.38 m	2.84 m
Unit: m			
Range			
a- Max. digging reach		8.37	8.81
b- Max. digging reach at ground level		8.21	8.66
c- Max. digging depth		5.52	5.98
d- Max. digging height		9.18	9.55
e- Max. dumping clearance		6.75	7.11
f- Min. dumping clearance		2.62	2.25
g- Max. vertical wall digging depth		4.50	4.95
h- Min. swing radius		2.13	2.52
i- Horizontal digging stroke at ground level		4.19	4.67
j- Digging depth for 2.4 m (8') flat bottom		5.29	5.78
Bucket capacity ISO heaped m <sup>3</sup>		0.50	0.38

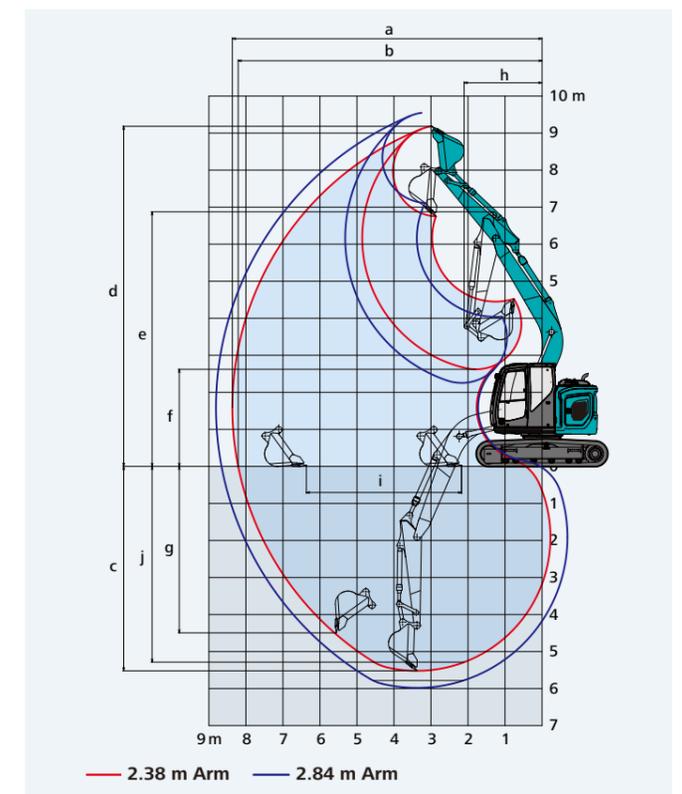
## Digging Force (ISO 6015)

		Unit: kN	
Arm length		2.38 m	2.84 m
Bucket digging force		105.4	
Arm crowding force		64.0	58.0

## Dimensions

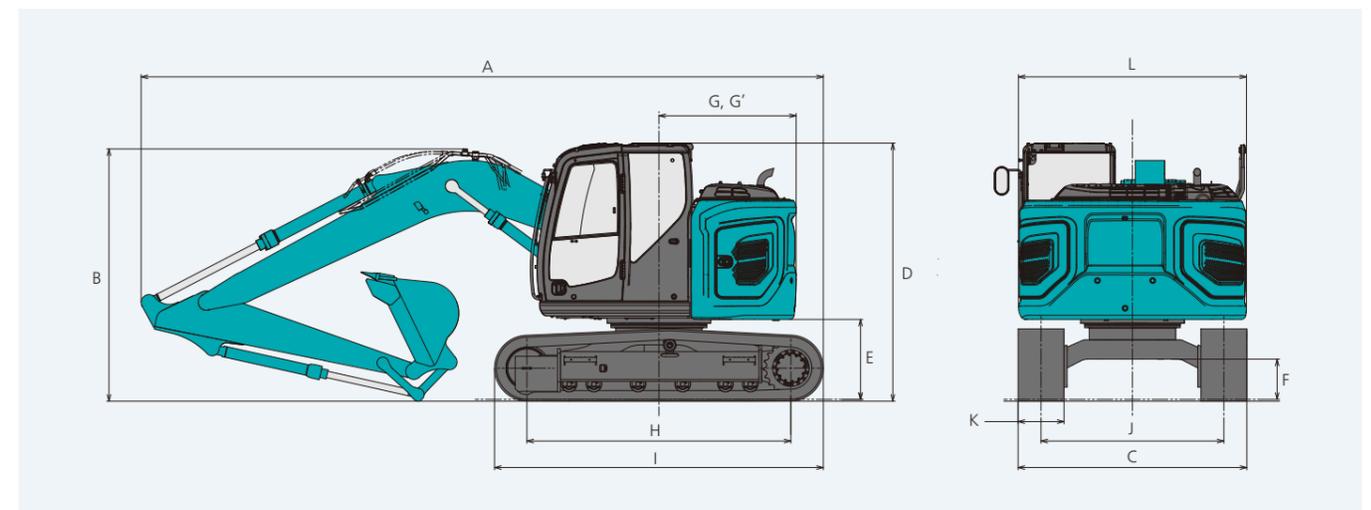
Arm length		2.38 m	2.84 m
A	Overall length	SL135SR 7,430/8,070**	7,440/8,080**
		SK135SR(LC) 7,510/8,070**	7,530/8,080**
B	Overall height (to top of boom)	2,740	3,140
C	Overall width (500 mm shoe)	2,490	
D	Overall height (to top of cab)	2,810	
E	Ground clearance of rear end*	870	
F	Ground clearance*	440 (400**)	

SK135SR SK135SR(LC)  
SK135SR-7 SK135SR(LC)-7



		Unit: mm	
G	Tail swing radius	1,490	
G'	Distance from centre of swing to rear end	1,490	
H	Tumbler distance	SL135SR	2,870
		SK135SR(LC)	3,040
I	Overall length of crawler	SL135SR	3,580
		SK135SR(LC)	3,750
J	Track gauge	1,990	
K	Shoe width	500	
L	Overall width of upperstructure	2,480	

\*Without including height of shoe lug \*\*With Dozer



# Operating weight & ground pressure

SK135SR-7 : Boom: 4.68 m Arm: 2.38 m Bucket: 0.50 m<sup>3</sup> ISO heaped bucket Dozer: without

Shaped	Triple grouser shoes (even height)			
Shoe width	mm	500	600	700
Overall width of crawler	mm	2,490	2,590	2,690
Ground pressure	kPa	44	37	32
Operating weight	kg	14,000	14,200	14,400

SK135SR-7 : Boom: 4.68 m Arm: 2.38 m Bucket: 0.50 m<sup>3</sup> ISO heaped bucket Dozer: with

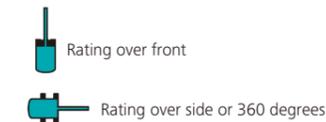
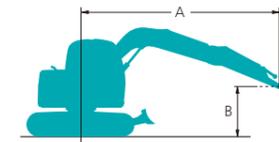
Shaped	Triple grouser shoes (even height)			
Shoe width	mm	500	600	700
Overall width of crawler	mm	2,490	2,590	2,690
Ground pressure	kPa	46	39	34
Operating weight	kg	14,800	15,000	15,300

SK135RSLC-7 : Boom: 4.68 m Arm: 2.38 m Bucket: 0.50 m<sup>3</sup> ISO heaped bucket Dozer: without

Shaped	Triple grouser shoes (even height)			
Shoe width	mm	500	600	700
Overall width of crawler	mm	2,490	2,590	2,690
Ground pressure	kPa	42	36	31
Operating weight	kg	14,200	14,400	14,700

# Lift capacities

**SK135SR** SK135SR-7  
**SK135RSLC** SK135RSLC-7



A - Reach from swing centreline to arm top  
B - Arm top height above/below ground  
C - Lift point  
Relief valve setting: 34.3 MPa

SK135SR		Arm: 2.38 m Bucket: without Counterweight: 3,150 kg Shoe: 500 mm Dozer: without										
		1.5 m		3.0 m		4.5 m		6.0 m		At Max. Reach		
												Radius
7.5m	kg									*2,300	*2,300	3.80 m
6.0m	kg					*3,450	*3,450			*1,830	*1,830	5.55 m
4.5m	kg			*4,330	*4,330	*3,730	3,410	3,100	2,140	*1,700	*1,700	6.50 m
3.0m	kg			*6,650	5,930	*4,510	3,190	3,020	2,060	*1,690	1,600	6.99 m
1.5m	kg			*5,270	5,210	4,470	2,940	2,900	1,960	*1,790	1,510	7.14 m
G.L.	kg			*6,040	5,010	4,290	2,780	2,820	1,880	*2,000	1,530	6.94 m
-1.5m	kg	*5,320	*5,320	*8,230	5,020	4,240	2,730	2,790	1,850	*2,460	1,710	6.39 m
-3.0m	kg	*9,090	*9,090	*6,610	5,140	4,300	2,790			3,340	2,220	5.36 m

SK135SR		Arm: 2.38 m Bucket: without Counterweight: 3,150 kg Shoe: 500 mm Dozer: blade up										
		1.5 m		3.0 m		4.5 m		6.0 m		At Max. Reach		
												Radius
7.5m	kg									*2,300	*2,300	3.80 m
6.0m	kg					*3,450	*3,450			*1,830	*1,830	5.55 m
4.5m	kg			*4,330	*4,330	*3,730	3,600	3,190	2,270	*1,700	*1,700	6.50 m
3.0m	kg			*6,650	6,260	*4,510	3,380	3,100	2,190	*1,690	*1,690	6.99 m
1.5m	kg			*5,270	*5,270	4,600	3,130	2,990	2,080	*1,790	1,610	7.14 m
G.L.	kg			*6,040	5,340	4,420	2,960	2,900	2,000	*2,000	1,640	6.94 m
-1.5m	kg	*5,320	*5,320	*8,230	5,350	4,360	2,920	2,880	1,980	*2,460	1,830	6.39 m
-3.0m	kg	*9,090	*9,090	*6,610	5,470	4,430	2,980			3,440	2,370	5.36 m

SK135RSLC		Arm: 2.38 m Bucket: without Counterweight: 3,150 kg Shoe: 500 mm Dozer: without										
		1.5 m		3.0 m		4.5 m		6.0 m		At Max. Reach		
												Radius
7.5m	kg									*2,300	*2,300	3.80 m
6.0m	kg					*3,450	*3,450			*1,830	*1,830	5.55 m
4.5m	kg			*4,330	*4,330	*3,730	3,460	*3,400	2,170	*1,700	*1,700	6.50 m
3.0m	kg			*6,650	6,020	*4,510	3,240	3,320	2,090	*1,690	1,630	6.99 m
1.5m	kg			*5,270	*5,270	4,980	2,990	3,210	1,990	*1,790	1,530	7.14 m
G.L.	kg			*6,040	5,090	4,790	2,830	3,120	1,910	*2,000	1,560	6.94 m
-1.5m	kg	*5,320	*5,320	*8,230	5,100	4,740	2,780	3,100	1,890	*2,460	1,740	6.39 m
-3.0m	kg	*9,090	*9,090	*6,610	5,230	*4,570	2,840			*3,480	2,260	5.36 m

**Note:**

- 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.
- Bucket pin attachment point 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.