



SK135SR SK140SRLC

KOBELCO

SK 1355R

0.38 – 0.50 m³

■ Bucket capacity:

■ Engine power:

■ Operating weight:

78.6 kW/2,200 min⁻¹

14,500 - 16,000 kg



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Specifications



Model	ISUZU 4JJ1XDRAC	
Туре	Four-cycle, liquid-cooled, direct injection diesel, turbo charged, Tier IV Final certified	
No. of cylinders	4	
Bore and stroke	95.4 mm x 104.9 mm	
Displacement	2.999 L	
Dated navyar autnut	78.6 kW/2,200 min ⁻¹ (ISO 9249: with fan)	
Rated power output	86.0 kW/2,200 min ⁻¹ (ISO 14396: without fan)	
Max. torque	354 N·m/1,800 min ⁻¹ (ISO 9249: with fan)	
	375 N·m/1,800 min ⁻¹ (ISO 14396: without fan)	

Travel system

Travel motors	Variable displacement piston, two-speed motors	
Travel brakes	Hydraulic brake	
Parking brakes	Wet multiple plate	
Travel shoes	44 each side (SK135SR)	
	46 each side (SK140SRLC)	
Travel speed	3.4 / 5.6 km/h	
Drawbar pulling force	141 kN (ISO 7464)	
Gradeability	70% {35°}	



Hydraulic system

Pump		
Туре	Two variable displacement piston pumps + one gear pump	
Max. discharge flow	2 x 142 L/min 1 x 22 L/min	
	Extra gear pump 1 x 60 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	

Cab & control

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	
Flectric rotary-type engine throttle	



Swing system

Swing motor	One fixed displacement piston motor	
Brake	Hydraulic; locking automatically when the swing control lever is in the neutral position	
Parking brake	Wet multiple plate	
Swing speed	11.0 min ⁻¹	
Swing torque	40.4 kN·m	



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



Dozer blade (optional)

Dozer cylinder	125 mm x 220 mm	
Dimension	2,490 mm {for 500 mm shoe} (width) x 570 mm (height)*	
Working range	500 mm (up) x 590 mm (down)	

^{*}Dozer width is changed according to the shoe width difference.



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
Under the oil table	89.9 L tank oil level
Hydraulic oil tank	176 L hydraulic system
Urea tank	20.7L



Backhoe bucket and combination

Use		Backhoe bucket			
		Normal digging			
Bucket capacity	ISO heaped	m³	0.38	0.45	0.50
bucket capacity	struck	m³	0.28	0.35	0.38
Opening width	With side cutter	mm	800	915	1,000
	Without side cutter	mm	740	855	940
No. of teeth		4	4	5	
Bucket weight kg		340	360	390	
Combination	2.38m standard arm		0	0	©
	2.84m long arm		©	Δ	×

 $[\]odot$ Standard \bigcirc Recommend \triangle Loading only \times Not recommended





Tronking ran	903	Unit: m
Boom	4.6	8 m
Range Arm	2.38 m	2.84 m
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 ³	0.50	0.38

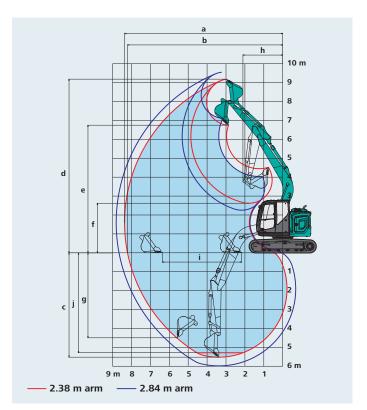
Digging force (ISO 6015)

Arm length 2.38 m

Bucket digging force 105.4 64.0 58.0 Arm crowding force

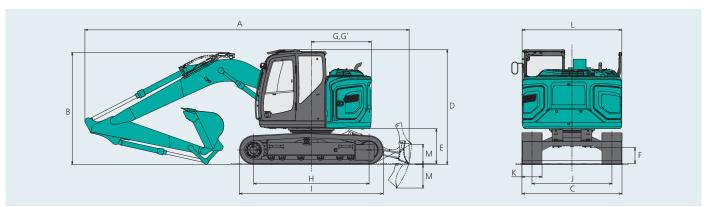
Dimensions

Arm length		2.38 m	2.84 m
Α	Overall length	8,070	8,080
В	Overall height (to top of boom)	2,790	3,140
C	Overall width	2,49	90**
D	Overall height (to top of cab)	2,8	860
Ε	Ground clearance of rear end*	87	70
F	Ground clearance*	40	00
G	Tail swing radius	1,4	190



G'	Distance from centre of swing	1,490	
н	H Tumbler distance	SK135SR	2,870
п	n Tumbler distance	SK140SRLC	3,040
	Overall length of crawler	SK135SR	3,580
'	Overall length of clawler	SK140SRLC	3,750
J	Track gauge	1,990	
K	Shoe	500	
L	Overall width of upperstructur	2,480	
M	Dozer blade (up / down)***		500 / 590

*Without including height of shoe lug **500 mm shoe ***Dozer blade is optional equipment



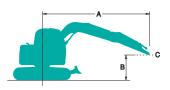
Unit: kN

Unit: mm

Operating weight & ground pressureIn standard trim, with standard boom, 2.38 m arm, and 0.5 m³ ISO heaped bucket (SK140SRLC-7 2.84m arm and extra 600kg weight)

Shaped			Triple grouser shoes (even height)						
Shoe width	mm		500	600	700				
Overall width of crawler	mm		2,490	2,590	2,690				
		SK135SR	45.4	38.6	33.6				
Ground pressure	kPa	SK135SR with blade	48.0	40.8	35.4				
		SK140SRLC with blade	47.8	40.7	35.3				
		SK135SR	14,500	14,700	14,900				
Operating weight	kg	SK135SR with blade	15,300	15,600	15,800				
		SK140SRLC with blade	16,000	16,400	16,600				

Lift capacities





A - Reach from swing centerline to arm top B - Arm top height above/below ground C - Lift point Bucket: Without bucket

Relief valve setting: 34.3 MPa $\{350 kgf/cm^2\}$

SK135S	Arm: 2.38 m Bucket: Without Counterweight: 3,150 kg Shoe: 500 mm Dozer: Less													
	Α	1.5	1.5 m		3.0 m		4.5 m		6.0 m		At max. reach			
В		1	—	1	—	1	—	1	—	1	—	Radius		
7.5 m	kg									*2,270	*2,270	3.80 m		
6.0 m	kg					*3,390	*3,390			*1,800	*1,800	5.55 m		
4.5 m	kg			*4,280	*4,280	*3,670	3,460	3,140	2,140	*1,670	*1,670	6.50 m		
3.0 m	kg			*6,540	6,000	*4,420	3,210	3,040	2,060	*1,670	1,580	6.99 m		
1.5 m	kg			*5,240	5,190	4,510	2,930	2,920	1,940	*1,760	1,480	7.14 m		
G.L.	kg			*6,020	4,980	4,310	2,760	2,820	1,850	*1,980	1,510	6.94 m		
-1.5 m	kg	*5,300	*5,300	*8,050	4,990	4,250	2,710	2,800	1,830	*2,430	1,690	6.39 m		
-3.0 m	kg	*9,070	*9,070	*6,440	5,130	4,330	2,770			3,360	2,200	5.36 m		

SK135S	R	Arm: 2.38 m Bucket: Without Counterweight: 3,150 kg Shoe: 500 mm Dozer: Blade up											
	А	1.5 m		3.0 m		4.5 m		6.0 m		At max. reach			
В			—	1		1		1		1		Radius	
7.5 m	kg									*2,270	*2,270	3.80 m	
6.0 m	kg					*3,390	*3,390			*1,800	*1,800	5.55 m	
4.5 m	kg			*4,280	*4,280	*3,670	3,640	3,220	2,270	*1,670	*1,670	6.50 m	
3.0 m	kg			*6,540	6,320	*4,420	3,390	3,120	2,180	*1,670	*1,670	6.99 m	
1.5 m	kg			*5,240	*5,240	4,630	3,110	3,000	2,070	*1,760	1,590	7.14 m	
G.L.	kg			*6,020	5,300	4,430	2,940	2,900	1,980	*1,980	1,610	6.94 m	
-1.5 m	kg	*5,300	*5,300	*8,050	5,310	4,370	2,890	2,880	1,950	*2,430	1,800	6.39 m	
-3.0 m	kg	*9,070	*9,070	*6,440	5,450	4,450	2,950			*3,380	2,350	5.36 m	



SK135SF	t e	Arm: 2.84 m Bucket: Without Counterweight: 3,150 kg Shoe: 500 mm Dozer: Blade up												
	Α	1.5	m	m 3.0		4.5	m	6.0 m		7.5 m		At max. reach		
В		1	—	1	—	1	—	1	-	1	—	1	—	Radius
7.5 m	kg					*2,320	*2,320					*2,050	*2,050	4.59 m
6.0 m	kg					*2,960	*2,960	*2,080	*2,080			*1,710	*1,710	6.11 m
4.5 m	kg					*3,270	*3,270	*3,090	2,300			*1,590	*1,590	6.98 m
3.0 m	kg			*5,660	*5,660	*4,060	3,450	3,150	2,200			*1,590	1,520	7.44 m
1.5 m	kg			*7,810	5,680	4,680	3,150	3,000	2,070	*2,080	1,460	*1,660	1,430	7.58 m
G.L.	kg			*6,210	5,290	4,430	2,930	2,890	1,960			*1,850	1,450	7.40 m
-1.5 m	kg	*4,540	*4,540	*8,410	5,230	4,330	2,850	2,830	1,910			*2,210	1,590	6.88 m
-3.0 m	kg	*7,630	*7,630	*7,100	5,330	4,370	2,870					2,920	1,980	5.94 m
-4.5 m	kg			*4,370	*4,370							*2,770	*2,770	4.28 m

SK140SRI	.c	Arm: 2.84 m Bucket: Without Counterweight: 3,150 kg + 580 kg Shoe: 500 mm Dozer: Blade up												
В		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At max. reach		
				1	—	1	—	1		1		1		Radius
7.5 m	kg					*2,320	*2,320					*2,050	*2,050	4.59 m
6.0 m	kg					*2,960	*2,960	*2,080	*2,080			*1,710	*1,710	6.11 m
4.5 m	kg					*3,270	*3,270	*3,090	2,560			*1,590	*1,590	6.98 m
3.0 m	kg			*5,660	*5,660	*4,060	3,820	*3,390	2,460			*1,590	*1,590	7.44 m
1.5 m	kg			*7,810	6,340	*4,960	3,520	3,630	2,330	*2,080	1,660	*1,660	1,630	7.58 m
G.L.	kg			*6,210	5,950	5,410	3,300	3,510	2,220			*1,850	1,650	7.40 m
-1.5 m	kg	*4,540	*4,540	*8,410	5,890	5,310	3,220	3,450	2,170			*2,210	1,810	6.88 m
-3.0 m	kg	*7,630	*7,630	*7,100	5,990	*4,830	3,250					*3,030	2,250	5.94 m
-4.5 m	kg			*4,370	*4,370							*2,770	*2,770	4.28 m

- 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 is 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.