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 navior cutnut	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°}

Cab & control

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 66 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		

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	

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	
Hydraulic oil tank	89.9 L tank oil level	
	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	×

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



Working ranges

Unit: 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 9.55 9.18 e-Max. dumping clearance 6.75 7.11 f- Min. dumping clearance 2.62 2.25 g-Max. vertical wall 4.50 4.95 digging depth 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') 5.29 5.78 flat bottom Bucket capacity ISO heaped m³ 0.50 0.38

Digging force (ISO 6015)

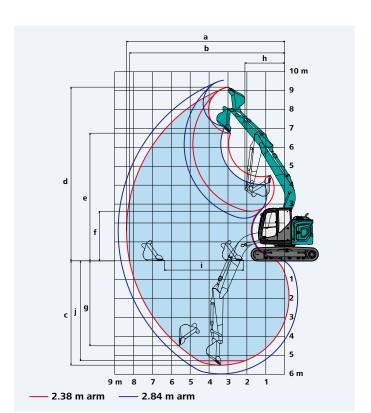
Arm length 2.38 m 2.84 m

Bucket digging force 105.4

Arm crowding force 64.0 58.0

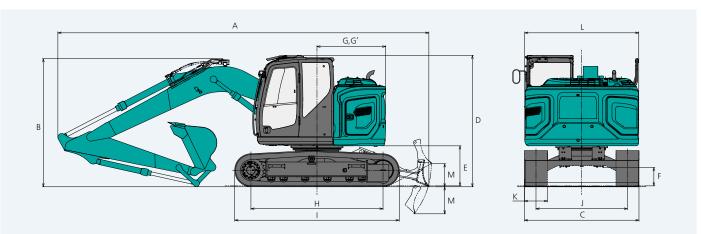
Dimensions

Ar	m 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	2,490**		
D	Overall height (to top of cab)	2,860		
Ε	Ground clearance of rear end*	870		
F	Ground clearance*	400		
G	Tail swing radius	1,490		



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

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



Unit: kN

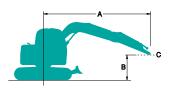
Unit: mm

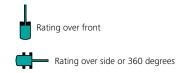
Operating weight & ground pressure

In standard trim, with standard boom, 2.38 m arm, and 0.5 m³ ISO heaped bucket

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	SK135SR without dozer	45.4	38.6	33.6
		SK140SRLC with dozer	46.1	39.2	34.1
Operating weight	kg SK13	SK135SR without dozer	14,500	14,700	14,900
	kg	SK140SRLC with dozer	15,500	15,800	16,000

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 $\{350 kgf/cm^2\}$

SK1359	SR .	Arm: 2.38 m Bucket: Without Counterweight: 3,150 kg Shoe: 500 mm Dozer: Less												
	А	1.5 m		3.0 m		4.5 m		6.0 m		At max. reach				
В		1	-	<u> </u>	—	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	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		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			



SK135SR		Arm: 2.	Arm: 2.84 m Bucket: Without Counterweight: 3,150 kg Shoe: 500 mm Dozer: Blade up													
	Α	1.5 m		3.0 m		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		

SK140SRLC		Arm: 2.	Arm: 2.84 m Bucket: Without Counterweight: 3,150 kg + 580 kg Shoe: 500 mm Dozer: Blade up											
	Α	1.5 m		3.0 m		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	2,560			*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.