

KOBELCO

Hydraulic Excavator

SK130^{LC}

SK130LC-11

Performance  Design

■ **Bucket Capacity:**

0.30 – 0.88 cu.yd. SAE

■ **Engine Power:**

96 hp {71.3 kW} @ 2,000 rpm
(SAE NET)

■ **Operating Weight:**

32,800 lb {14,900 kg}



**DRIVEN BY
PASSION**

Complies with the latest exhaust emission regulations



US EPA
Tier IV Final



EU (NRMM)
Stage V



Japanese
Regulations

Specifications

Engine

Model	ISUZU 4JJ1XDRAC-01
Type	4-cycle, water cooled, overhead camshaft, vertical in-line direct injection type, with turbocharger, Tier IV Final certified
No. of cylinders	4
Bore and stroke	3.8" × 4.1" {95.4 mm × 104.9 mm}
Displacement	183 cu.in {2,999 L}
Power output	96 hp {71.3 kW} /2,000 rpm (SAE NET) 105 hp {78.5 kW} /2,000 rpm (Without fan)
Max. torque	261 lb-ft {354 N·m} /1,800 rpm (SAE NET) 277 lb-ft {357 N·m} /1,800 rpm (Without fan)

Hydraulic System

Pump	
Type	Two variable displacement piston pumps + one gear pump
Max. discharge flow	2 × 34 gpm {2 × 130 L/min} 1 × 5 gpm {1 × 20 L/min}
Relief valve setting	
Boom, arm and bucket	4,970 psi {34.3 MPa}
Travel circuit	4,970 psi {34.3 MPa}
Swing circuit	4,060 psi {28.0 MPa}
Control circuit	725 psi {5.0 MPa}
Pilot control pump	Gear type
Main control valves	12-spool
Oil cooler	Air cooled type

Swing System

Swing motor	Axial piston motor
Brake	Hydraulic; locking automatically when the swing control lever is in the neutral position
Parking brake	Oil disc brake, hydraulic operated automatically
Swing speed	11.0 rpm
Swing torque	29,800 lb-ft {40.4 kN·m}
Tail swing radius	7'2" {2,190 mm}
Min. front swing radius	9'4" {2,840 mm}

Hydraulic P.T.O.

Output specification	Maximum pressure psi {MPa}	Max. flow U.S. gpm, {lpm}
		2,000 rpm
N&B	3,550 {24.5}	34.3 {130}
Rotary	2,970 {20.5}	15.9 {60}

Bucket Selection Chart

Bucket type	Bucket capacity cu.yd. {SAE} {m³}	Bucket width inches {m}	Bucket weight lb {kg}	Arm ft-in {m}	
				7'10" {2.38 m}	9'4" {2.84 m}
General	0.30 {0.229}	18 {0.457}	650 {296}	H	H
	0.44 {0.336}	24 {0.609}	720 {327}	H	H
	0.58 {0.443}	30 {0.762}	835 {379}	M	M
	0.73 {0.558}	36 {0.914}	905 {411}	M	L
	0.88 {0.672}	42 {1.066}	1,015 {460}	L	L
Heavy duty	0.30 {0.229}	18 {0.457}	705 {320}	H	H
	0.44 {0.336}	24 {0.609}	780 {354}	H	H
	0.58 {0.443}	30 {0.762}	900 {408}	H	M
	0.73 {0.558}	36 {0.914}	975 {442}	L	L
	0.88 {0.672}	42 {1.066}	1,090 {494}	X	X

H – Used with material weight up to 3,000 lb/cu.yd. {1,780 kg/m³}
M – Used with material weight up to 2,500 lb/cu.yd. {1,483 kg/m³}

L – Used with material weight up to 2,000 lb/cu.yd. {1,186 kg/m³}
X – Not recommended

Travel System

Travel motors	Variable displacement piston, two-speed motors
Travel brakes	Hydraulic brake
Parking brakes	Wet multiple plate
Travel shoes	46 each side
Travel speed	2.1/3.5 mph {3.4/5.6 km/h}
Drawbar pulling force	31,700 lbf {141 kN}
Gradeability	70% {35°}

Cab & Control

Cab	
All-weather, sound-suppressed steel cab mounted on 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	3.9" {100 mm} × 3'7" {1,092 mm}
Arm cylinder	4.5" {115 mm} × 3'8" {1,116 mm}
Bucket cylinder	3.9" {100 mm} × 35.6" {903 mm}

Dozer Blade (Optional)

Dozer cylinder	4.9" {125 mm} × 8.7" {220 mm}
Dimension	8'6" {2,590 mm} (width) × 22.4" {570 mm} (height)
Working range	19.7" {500 mm} (up) × 23.2" {590 mm} (down)

Refilling Capacities & Lubrications

Fuel tank	74 U.S.gal {280 L}
Cooling system	4.2 U.S.gal {16 L}
Engine oil	4.5 U.S.gal {17 L}
Travel reduction gear	2 × 0.6 U.S.gal {2 × 2.1 L}
Swing reduction gear	0.4 U.S.gal {1.65 L}
Hydraulic oil tank	25.5 U.S.gal {96.7 L}: Tank oil level 47.6 U.S.gal {180 L}: Hydraulic system
DEF tank	9.0 U.S.gal {33.9 L}

Working Ranges

Unit: ft-in {m}

Boom	15'4" {4.68 m}	
Arm	7'10" {2.38 m}	9'4" {2.84 m}
Range	7'10" {2.38 m}	9'4" {2.84 m}
a-Max. digging reach	27'4" {8.34}	28'10" {8.78}
b-Max. digging reach at ground level	26'10" {8.17}	28'3" {8.62}
c-Max. digging depth	18'1" {5.52}	19'7" {5.98}
d-Max. digging height	27'9" {8.45}	28'9" {8.75}
e-Max. dumping clearance	19'11" {6.08}	20'11" {6.38}
f-Min. dumping clearance	7'6" {2.28}	6'0" {1.84}
g-Max. vertical wall digging depth	14'7" {4.45}	16'1" {4.91}
h-Min. swing radius	9'0" {2.75}	9'4" {2.84}
i-Horizontal digging stroke at ground level	13'9" {4.20}	15'4" {4.68}
j-Digging depth for 8' {2.4 m} flat bottom	17'4" {5.28}	18'11" {5.77}

Digging Force (ISO 6015)

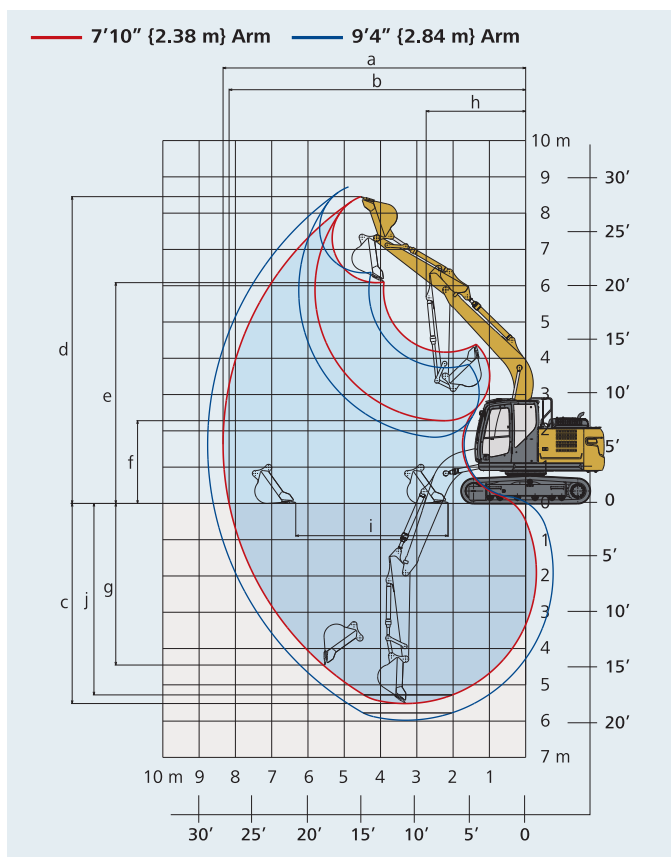
Unit: lb {kN}

Arm length	7'10" {2.38 m}	9'4" {2.84 m}
Bucket digging force	SAE 21,900 {97.3}	ISO 24,800 {110.4}
Arm crowding force	SAE 13,800 {61.5}	ISO 12,600 {56.2}
	ISO 14,400 {64.2}	13,000 {58.0}

Dimensions

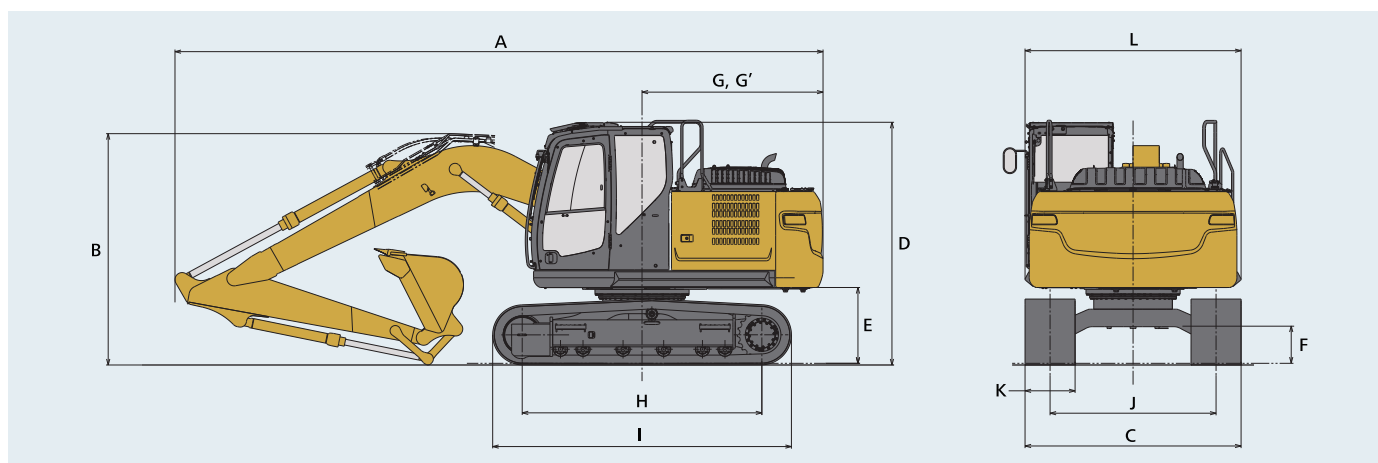
Unit: ft-in {mm}

Arm length	7'10" {2.38 m}	9'4" {2.84 m}
A Overall length	25'6" {7,770}	25'7" {7,800}
B Overall height (to top of boom)	9'1" {2,770}	10'3" {3,130}
C Overall width (23.6" {600 mm} shoes)	8'6" {2,590}	
D Overall height (to top of cab)	9'7" {2,910}	
E Ground clearance of rear end*	35.8" {910}	
F Ground clearance*	16.3" {415}	
G Tail swing radius	7'2" {2,190}	
G' Distance from center of swing to rear end	7'1" {2,170}	



H Tumbler distance	10'0" {3,040}
I Overall length of crawler	12'4" {3,750}
J Track gauge	6'6" {1,990}
K Shoe width**	23.6" {600}
L Overall width of upperstructure	8'6" {2,590}

*Without including height of shoe lug **Shoe width: 19.7" {500 mm}, 23.6" {600 mm}, and 27.6" {700 mm}



Operating Weight & Ground Pressure

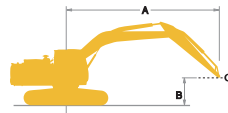
In standard trim, with standard boom, 9'4" {2.84 m} arm, and 0.50 cu.yd. {0.38 m³} ISO heaped bucket

Shaped	Triple grouser shoes (even height)		
Shoe width	ft-in {mm}	19.7" {500}	23.6" {600}
Overall width of crawler	ft-in {mm}	8'2" {2,490}	8'6" {2,590}
Ground pressure	psi {kPa}	6.2 {43}	5.4 {37}
Operating weight	lb {kg}	32,000 {14,500}	32,800 {14,900}

Lift Capacities

SK130LC

SK130LC-11



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: 4,970 psi (34.3 MPa)

SK130LC		Arm: 9'4" {2.84 m} No bucket Counterweight: 6,613 lb {3,000 kg} Shoe: 23.6" {600 mm} Dozer: less										
B	A	5' {1.5 m}		10' {3.0 m}		15' {4.6 m}		20' {6.1 m}		At max. reach		Radius
												
25' {7.6 m}	lb {kg}									*4,600 {2,080}	*4,600 {2,080}	14'7" {4.46 m}
20' {6.1 m}	lb {kg}									*3,790 {1,710}	*3,790 {1,710}	19'10" {6.05 m}
15' {4.6 m}	lb {kg}							*6,580 {2,980}	5,840 {2,640}	*3,520 {1,590}	*3,520 {1,590}	22'9" {6.94 m}
10' {3.0 m}	lb {kg}			*11,270 {5,110}	*11,270 {5,110}	*8,410 {3,810}	*8,410 {3,810}	*7,330 {3,320}	5,640 {2,550}	*3,510 {1,590}	*3,510 {1,590}	24'4" {7.42 m}
5' {1.5 m}	lb {kg}			*17,500 {7,930}	14,580 {6,610}	*10,780 {4,880}	8,110 {3,670}	*8,390 {3,800}	5,390 {2,440}	*3,680 {1,660}	*3,680 {1,660}	24'9" {7.55 m}
G.L.	lb {kg}			*14,760 {6,690}	13,790 {6,250}	*12,540 {5,680}	7,680 {3,480}	8,220 {3,720}	5,180 {2,340}	*4,090 {1,850}	3,980 {1,800}	24'2" {7.36 m}
-5' {-1.5 m}	lb {kg}	*10,400 {4,710}	*10,400 {4,710}	*20,330 {9,220}	13,680 {6,200}	12,420 {5,630}	7,510 {3,400}	8,120 {3,680}	5,090 {2,300}	*4,930 {2,230}	4,400 {1,990}	22'4" {6.83 m}
-10' {-3.0 m}	lb {kg}	*17,520 {7,940}	*17,520 {7,940}	*18,270 {8,280}	13,890 {6,300}	*12,140 {5,500}	7,580 {3,430}			*6,870 {3,110}	5,500 {2,490}	19'2" {5.84 m}
-15' {-4.6 m}	lb {kg}			*12,700 {5,760}	*12,700 {5,760}					*8,830 {4,000}	*8,830 {4,000}	13'4" {4.08 m}

SK130LC		Arm: 7'10" {2.38 m} No bucket Counterweight: 6,613 lb {3,000 kg} Shoe: 23.6" {600 mm} Dozer: less											
A		5' {1.5 m}		10' {3.0 m}		15' {4.6 m}		20' {6.1 m}		At max. reach		Radius	
													
B	20' {6.1 m}	lb {kg}									*4,010 {1,810}	*4,010 {1,810}	17'11" {5.48 m}
	15' {4.6 m}	lb {kg}					*7,450 {3,370}	*7,450 {3,370}	*6,750 {3,060}	5,770 {2,610}	*3,700 {1,670}	*3,700 {1,670}	21'2" {6.46 m}
	10' {3.0 m}	lb {kg}			*13,380 {6,060}	*13,380 {6,060}	*9,320 {4,220}	8,590 {3,890}	*7,930 {3,590}	5,610 {2,540}	*3,680 {1,660}	*3,680 {1,660}	22'10" {6.97 m}
	5' {1.5 m}	lb {kg}			*13,180 {5,970}	*13,180 {5,970}	*11,520 {5,220}	8,040 {3,640}	8,440 {3,820}	5,390 {2,440}	*3,890 {1,760}	*3,890 {1,760}	23'4" {7.11 m}
	G.L.	lb {kg}			*14,390 {6,520}	13,800 {6,250}	12,620 {5,720}	7,690 {3,480}	8,250 {3,740}	5,220 {2,360}	*4,390 {1,990}	*4,390 {1,990}	22'8" {6.91 m}
	-5' {-1.5 m}	lb {kg}	*12,130 {5,500}	*12,130 {5,500}	*19,900 {9,020}	13,830 {6,270}	12,510 {5,670}	7,590 {3,440}	8,220 {3,720}	5,190 {2,350}	*5,440 {2,460}	4,950 {2,240}	20'9" {6.33 m}
	-10' {-3.0 m}	lb {kg}	*20,830 {9,440}	*20,830 {9,440}	*17,090 {7,750}	14,140 {6,410}	*11,450 {5,190}	7,750 {3,510}			*8,220 {3,720}	6,480 {2,930}	17'2" {5.25 m}

SK130LC		Arm: 9'4" {2.84 m} No bucket Counterweight: 6,613 lb {3,000 kg} Shoe: 23.6" {600 mm} Dozer: Blade down										
B	A	5' {1.5 m}		10' {3.0 m}		15' {4.6 m}		20' {6.1 m}		At max. reach		Radius
												
25' {7.6 m}	lb {kg}									*4,600 {2,080}	*4,600 {2,080}	14'7" {4.46 m}
20' {6.1 m}	lb {kg}									*3,790 {1,710}	*3,790 {1,710}	19'10" {6.05 m}
15' {4.6 m}	lb {kg}							*6,580 {2,980}	6,120 {2,770}	*3,520 {1,590}	*3,520 {1,590}	22'9" {6.94 m}
10' {3.0 m}	lb {kg}			*11,270 {5,110}	*11,270 {5,110}	*8,410 {3,810}	*8,410 {3,810}	*7,330 {3,320}	5,930 {2,680}	*3,510 {1,590}	*3,510 {1,590}	24'4" {7.42 m}
5' {1.5 m}	lb {kg}			*17,500 {7,930}	15,290 {6,930}	*10,780 {4,880}	8,520 {3,860}	*8,390 {3,800}	5,670 {2,570}	*3,680 {1,660}	*3,680 {1,660}	24'9" {7.55 m}
G.L.	lb {kg}			*14,760 {6,690}	14,510 {6,580}	*12,540 {5,680}	8,080 {3,660}	*9,280 {4,200}	5,460 {2,470}	*4,090 {1,850}	*4,090 {1,850}	24'2" {7.36 m}
-5' {-1.5 m}	lb {kg}	*10,400 {4,710}	*10,400 {4,710}	*20,330 {9,220}	14,390 {6,520}	*13,110 {5,940}	7,910 {3,580}	*9,520 {4,310}	5,370 {2,430}	*4,930 {2,230}	4,640 {2,100}	22'4" {6.83 m}
-10' {-3.0 m}	lb {kg}	*17,520 {7,940}	*17,520 {7,940}	*18,270 {8,280}	14,610 {6,620}	*12,140 {5,500}	7,990 {3,620}			*6,870 {3,110}	5,790 {2,620}	19'2" {5.84 m}
-15' {-4.6 m}	lb {kg}			*12,700 {5,760}	*12,700 {5,760}					*8,830 {4,000}	*8,830 {4,000}	13'4" {4.08 m}

SK130LC		Arm: 7'10" {2.38 m} No bucket Counterweight: 6,613 lb {3,000 kg} Shoe: 23.6" {600 mm} Dozer: Blade down											
A		5' {1.5 m}		10' {3.0 m}		15' {4.6 m}		20' {6.1 m}		At max. reach		Radius	
													
B													
	20' {6.1 m}	lb {kg}									*4,010 {1,810}	*4,010 {1,810}	17'11" {5.48 m}
	15' {4.6 m}	lb {kg}					*7,450 {3,370}	*7,450 {3,370}	*6,750 {3,060}	6,060 {2,740}	*3,700 {1,670}	*3,700 {1,670}	21'2" {6.46 m}
	10' {3.0 m}	lb {kg}			*13,380 {6,060}	*13,380 {6,060}	*9,320 {4,220}	9,000 {4,080}	*7,930 {3,590}	5,890 {2,670}	*3,680 {1,660}	*3,680 {1,660}	22'10" {6.97 m}
	5' {1.5 m}	lb {kg}			*13,180 {5,970}	*13,180 {5,970}	*11,520 {5,220}	8,450 {3,830}	*8,860 {4,010}	5,670 {2,570}	*3,890 {1,760}	*3,890 {1,760}	23'4" {7.11 m}
G.L.	lb {kg}			*14,390 {6,520}	*14,390 {6,520}	*12,950 {5,870}	8,090 {3,660}	*9,560 {4,330}	5,500 {2,490}	*4,390 {1,990}	*4,390 {1,990}	22'8" {6.91 m}	
-5' {-1.5 m}	lb {kg}	*12,130 {5,500}	*12,130 {5,500}	*19,900 {9,020}	14,540 {6,590}	*13,110 {5,940}	8,000 {3,620}	*9,430 {4,270}	5,470 {2,480}	*5,440 {2,460}	5,220 {2,360}	20'9" {6.33 m}	
-10' {-3.0 m}	lb {kg}	*20,830 {9,440}	*20,830 {9,440}	*17,090 {7,750}	14,850 {6,730}	*11,450 {5,190}	8,160 {3,700}			*8,220 {3,720}	6,820 {3,090}	17'2" {5.25 m}	

Note:

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. Bucket pin attachment point 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.