

Engine

Model	ISUZU AU-4LE2X
Type:	Direct injection, water-cooled, 4-cycle diesel engine With turbocharger, intercooler (Complies with EU (NRMM) Stage IIIA, US EPA Tier III, and act on regulation, etc. of emission from non-road special motor vehicles (Japan))
No. of cylinders:	4
Bore and stroke:	85 mm x 96 mm
Displacement:	2.179 L
Rated power output:	42 kW /2,200 min ⁻¹ (ISO14396: Without fan) 41 kW /2,200 min ⁻¹ (ISO9249: With fan)
Max. torque:	211 N·m/1,600 min ⁻¹ {rpm} (ISO14396: Without fan) 210 N·m/1,600 min ⁻¹ {rpm} (ISO9249: With fan)

Hydraulic System

Pump	
Type:	Two variable displacement pumps + one gear pump
Max. discharge flow:	2 × 66 L/min, 1 × 18 L/min
Relief valve setting	
Boom, arm and bucket:	32.9 MPa {335 kgf/cm ² }
Travel circuit:	29.4 MPa {300 kgf/cm ² }
Dozer blade circuit:	22.1 MPa {225 kgf/cm ² }
Swing circuit:	24.5 MPa {250 kgf/cm ² }
Control circuit:	5.0 MPa {50 kgf/cm ² }
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 neutral position
Parking brake:	Oil disc brake, hydraulic operated automatically
Swing speed:	11.5 min ⁻¹ {rpm}
Tail swing radius:	1,290 mm
Min. front swing radius:	1,710 mm

Attachments

Backhoe bucket and arm combination

Use	Backhoe bucket						
	Standard	Narrow				Wide	
Bucket capacity	ISO heaped m ³	0.28	0.11	0.14	0.18	0.22	0.35
	Struck m ³	0.25	0.09	0.12	0.14	0.18	0.26
Opening width	With side cutter mm	750	—	480	550	650	850
	Without side cutter mm	680	400	410	480	580	780
No. of bucket teeth		4	3	3	3	4	4
Bucket weight	kg	210	190	160	170	190	—
Combinations	1.71 m Standard arm	◎	○	○	○	○	△
	2.13 m Long arm	△	○	○	○	◎	—

◎Standard ○Recommended △Loading only

Travel System

Travel motors:	2x axial-piston, two-step motors
Travel brakes:	Hydraulic brake per motor
Parking brakes:	Oil disc brake per motor
Travel shoes:	39 each side
Travel speed:	5.3 / 2.6 km/h
Drawbar pulling force:	76.8 kN {7,830 kgf} (ISO 7464)
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 cylinder:	110 mm × 916 mm
Arm cylinder:	95 mm × 833 mm
Bucket cylinder:	80 mm × 735 mm

Dozer Blade

Dozer cylinder:	135 mm × 129 mm
Dimension:	2,300 mm (width) × 460 mm (height)
Working range:	360 mm (up) × 250 mm (down)

Refilling Capacities & Lubrications

Fuel tank:	120 L
Cooling system:	8.5 L
Engine oil:	11 L
Travel reduction gear:	2 x 1.35 L
Swing reduction gear:	1.5 L
Hydraulic oil tank:	36 L tank oil level 85 L hydraulic system



Working Ranges

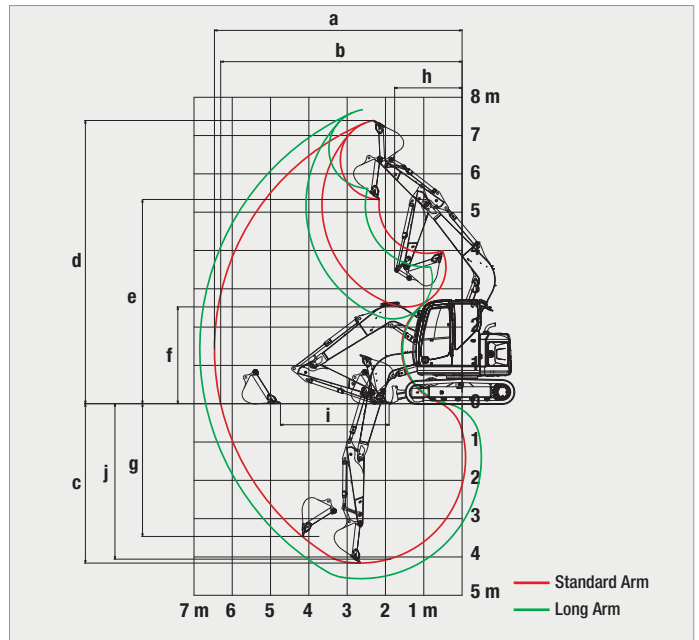
Unit: m

Range	Boom Arm	3.84 m	
		Standard 1.71 m	Long 2.13 m
a- Max. digging reach		6.48	6.88
b- Max. digging reach at ground level		6.35	6.76
c- Max. digging depth		4.16	4.58
d- Max. digging height		7.41	7.75
e- Max. dumping clearance		5.34	5.67
f- Min. dumping clearance		2.46	2.19
g- Max. vertical wall digging depth		3.87	4.34
h- Min. swing radius		1.71	2.11
i- Horizontal digging stroke at ground level		2.83	3.21
j- Digging depth for 2.4 m (8') flat bottom		3.80	4.31
Bucket capacity ISO heaped m ³		0.28	0.22

Digging Force (ISO 6015)

Unit: kN (kgf)

Arm length	Standard 1.71 m	Long 2.13 m
Bucket digging force	52.7 {5,370}	52.7 {5,370}
Arm crowding force	39.4 {4,020}	35.2 {3,450}



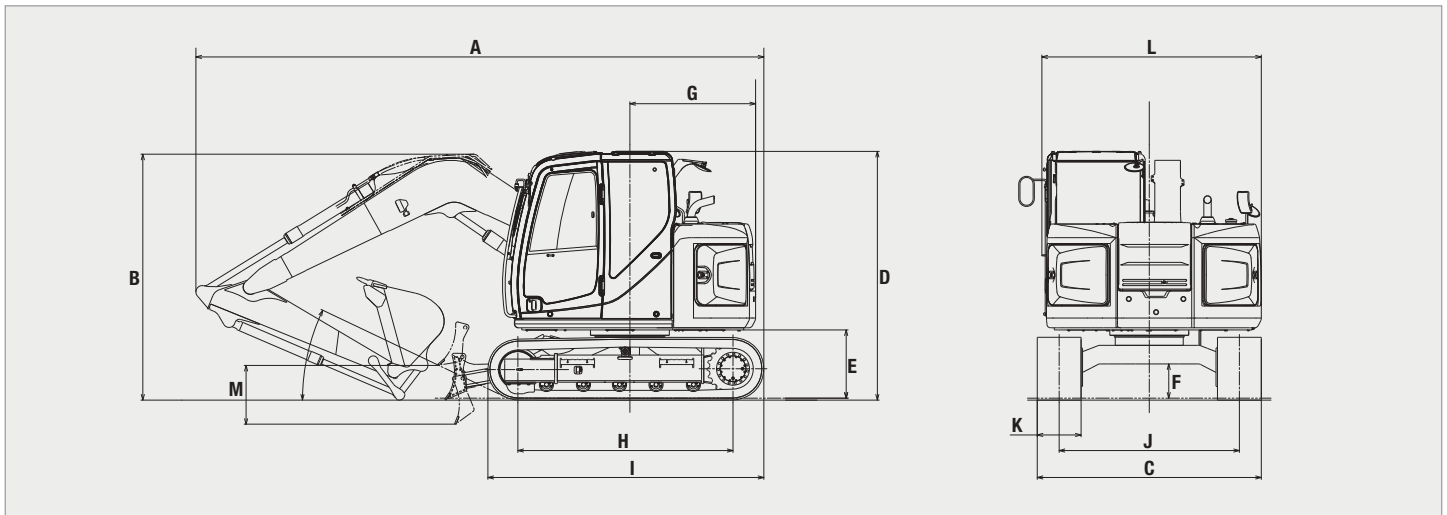
Dimensions

Arm length	Standard 1.71 m	Long 2.13 m
A Overall length	5,830	6,360
B Overall height (to top of boom)	2,520	2,490
C Overall width of crawler	2,300	
D Overall height (to top of cab)	2,550	
E Ground clearance of rear end*	700	
F Ground clearance*	350	

Unit: mm

G Tail swing radius	1,290
H Tumbler distance	2,210
I Overall length of crawler	2,830
J Track gauge	1,850
K Shoe width	450/600
L Overall width of upperstructure	2,250
M Dozer blade (up/down)	360/250

* Without including height of shoe lug

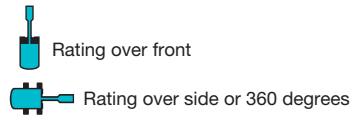
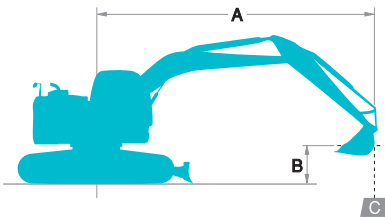


Operating Weight & Ground Pressure

In standard trim, with standard boom, 1.71 m arm, and 0.28 m³ SAE heaped bucket

Shaped		Triple grouser shoes (even height)	
		450	600
Shoe width	mm	450	600
Overall width of crawler	mm	2,300	2,450
Ground pressure	kPa {kgf/cm ² }	33.4 {0.34}	25.8 {0.26}
Operating weight	kg	7,440	7,660

Lifting Capacities



A – Reach from swing centerline for bucket hook
B – Bucket hook height above/below ground
C – Lifting capacities in kilograms
* Max. discharge pressure: 29.4 MPa {300 kgf/cm²}

SK75SR		Standard Arm: 1.71 m, Bucket: 0.28 m ³ SAE heaped 210 kg Shoe: 450 mm								
B \ A		1.5 m		3.0 m		4.5 m		At Max. Reach		Radius
6.0 m	kg			*1,730	*1,730			*1,630	*1,630	2.90 m
4.5 m	kg			*2,060	*2,060	1,400	1,260	*1,370	1,250	4.52 m
3.0 m	kg	4,700	4,700	*2,560	2,470	1,430	1,210	1,060	890	5.27 m
1.5 m	kg			2,620	2,140	1,320	1,110	920	770	5.52 m
G.L.	kg	3,910	3,910	2,410	1,950	1,230	1,050	930	770	5.36 m
-1.5 m	kg			2,380	1,920	1,220	1,010	1,130	940	4.73 m
-3.0 m	kg			*1,590	*1,590			*1,360	*1,360	3.37 m

SK75SR		Standard Arm: 1.71 m, Bucket: 0.28 m ³ SAE heaped 210 kg Shoe: 600 mm								
B \ A		1.5 m		3.0 m		4.5 m		At Max. Reach		Radius
6.0 m	kg							*1,660	*1,660	2.74 m
4.5 m	kg			*2,040	*2,040			*1,370	1,320	4.46 m
3.0 m	kg	4,490	4,490	*2,510	2,490	1,430	1,220	1,110	930	5.25 m
1.5 m	kg			2,640	2,170	1,250	1,120	960	800	5.52 m
G.L.	kg			2,440	1,980	1,250	1,040	970	810	5.36 m
-1.5 m	kg	*3,990	*3,990	2,410	1,950	1,230	1,020	1,180	980	4.71 m
-3.0 m	kg			*1,490	*1,490			*1,320	*1,320	3.31 m

SK75SR		Long Arm: 2.13 m, Bucket: 0.22 m ³ SAE heaped 170 kg Shoe: 450 mm								
B \ A		1.5 m		3.0 m		4.5 m		At Max. Reach		Radius
6.0 m	kg			*1,800	*1,800			*1,410	*1,410	3.64 m
4.5 m	kg					1,510	1,290	1,210	1,030	5.02 m
3.0 m	kg			*2,280	*2,280	1,440	1,220	910	760	5.70 m
1.5 m	kg			2,670	2,180	1,320	1,110	800	660	5.94 m
G.L.	kg			2,440	1,930	1,220	1,010	800	660	5.78 m
-1.5 m	kg	*3,320	*3,320	2,330	1,870	1,170	970	930	770	5.21 m
-3.0 m	kg			*2,040	1,930			*1,370	1,210	4.08 m

SK75SR		Long Arm: 2.13 m, Bucket: 0.22 m ³ SAE heaped 170 kg Shoe: 600 mm								
B \ A		1.5 m		3.0 m		4.5 m		At Max. Reach		Radius
6.0 m	kg			*1,750	*1,750			*1,440	*1,440	3.51 m
4.5 m	kg					1,510	1,290	1,220	1,090	4.97 m
3.0 m	kg			*2,230	*2,230	1,460	1,230	950	800	5.69 m
1.5 m	kg			2,690	2,210	1,340	1,120	830	690	5.94 m
G.L.	kg			2,420	1,960	1,230	1,020	830	690	5.78 m
-1.5 m	kg	*3,390	*3,390	2,350	1,890	1,190	980	980	810	5.19 m
-3.0 m	kg			*1,950	*1,950			*1,350	*1,290	3.97 m

Notes:

- 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 lift hook is defined as lift point.
- The above lifting capacities are in compliance with SAE J/ISO 10567. They do not exceed 87 % of hydraulic lifting capacity or 75 % of tipping load. Lifting 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 machines as originally manufactured and normally equipped by KOBELCO CONSTRUCTION MACHINERY CO., LTD.