



ENGINE		
Model	Isuzu AR-4JJ1X CEGR, SCR, DOC	
Emissions Cer	tification Tier 4 Final	
Fuel	Requires ultra-low sulfur fuel B5 biodiesel tolerant	
Type ł	Water-cooled, 4-cycle, nigh pressure common rail system Turbocharger w/ air cooled intercooler, SCR system	
Cylinders	4-cylinder in-line	
Displacement	183 in ³ (3 L)	
Bore/Stroke	3.76 x 4.13 in (95.4 x 104.9 mm)	
Fuel injection	Direct injection – electronic	
Fuel filter	Replaceable, full flow spin-on cartridge	
Air filter	Dry type element w/ warning restriction indicator	
Oil filter	Replaceable, full flow spin-on cartridge	
Engine gradea Side-to-side Fore and aft	bility: 35° 35°	
Net horsepower – SAE J1349 @ 2200 RPM: 112 hp (83.2 kW)		
Gross horsepower – ISO 14396 @ 2200 RPM: 115 hp (86.0 kW)		
Net max. torque – SAE J1349 @ 1800 RPM: 257 lbf·ft (349 N·m)		
Cooling operat	ing range: 109° to -13°F (43° to -25°C)	
Oil	Requires low-ash oil CJ-4	

DRIVETRAIN	
Travel control	Dual stage relief/ counter balance design
Brakes	Mechanical disc
Service brakes	SAHR disc – each motor
Two speed travel: Max. high speed Max. low speed Automatic downshift	3.4 mph (5.4 km/h) 1.7 mph (2.8 km/h)
Drawbar pull	36,100 lbf (160 kN)
Gradeability	70% – 35° Slope

ELECTRICAL

Voltage	24 Volts
Alternator rating	50 amp
Batteries Battery reserve capacity	2 x 12 Volt 72 Ah/5 hour
Work lights – 4 1 boom, 1 upper, 2 cab	24 Volt/70 watt

OPERATOR ENVIRONMENT

Air conditioner output	18,100 BTU/hr
Heater output	20,150 BTU/hr
Sound level inside cab - I	SO6395 70 dBA
Electrical outlet	12 Volt
Cab interior light	10 watt
Rear view camera	Standard
Seat H	Heated, air-suspension

ATTACHMENT

Boom	16 ft 11 in (5 150 mm)	
Arm options	8 ft 7 in (2.62 m)	
	10 ft 0 in (3.05 m)	
Bucket digging force* 25,200 lbf (112 kl		
w/ auto power up	26,500 lbf (118 kN)	
NOTE: *Digging force ratings based on ISO6015.		

OPERATING WEIGHT

Operating weight 38,400 lb (17 400 kg		
w/ shoes	2 ft 0 in (600 mm)	
w/ boom	16 ft 11 in (5 150 mm)	
w/ arm	8 ft 7 in (2.62 m)	
w/ bucket 1,067 lb (484 kg)		
w/ counterweight 6,980 lb (3 170 kg		
NOTE: W/ aparator / full fuel / standard aquipment		

NOTE: W/ operator/full fuel/standard equipment.

GROUND PRESSURE

@ Standard operating weight 5.9 psi (0.41 bar) w/ 23.6 in (600 mm) triple grouser shoes

HYDRAULICS

System design	Open center	
Main pumps Two	Two-variable displacement/	
	axial piston	
Max. rated flow per pur	mp:	
	37.5 gpm (142 L/min)	
Max rated flow total:		
	75.02 gpm (284 L/min)	
System pressures:		
Boom, arm and bucket	4,970 psi (343 bar)	
w/ Power Boost	5,260 psi (363 bar)	
Travel circuits	4,970 psi (343 bar)	
Swing circuits	4,050 psi (279 bar)	
Pilot pump	1 x gear design	
Max. capacity	5.8 gpm (22 L/min)	

CX160D

EXCAVATOR LONG UNDERCARRIAGE TIER 4 FINAL CERTIFIED

Controls Right track travel, bucket, boom and arm acceleration.	w/ boom/arm holding valve 1 x Four-spool section
Left track travel, auxiliary, swing, be and arm accelerat	
Work mode selection	ons SP: Speed Priority H: Heavy-Duty A: Automatic
Swing motor Fix	ed displacement axial piston
Swing final drive	Planetary gear reduction
Travel motor	Two-speed independent travel/axial piston

HYDRAULIC CYLINDERS

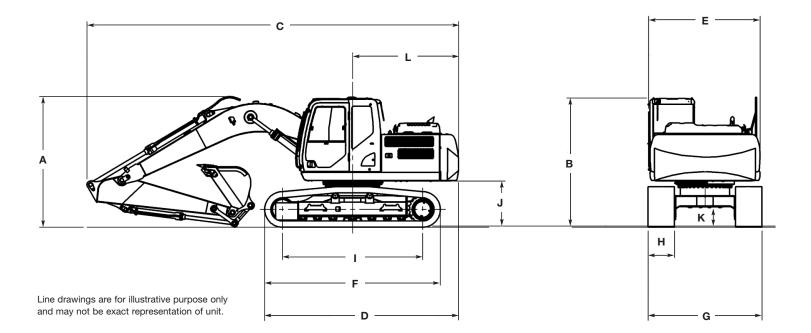
Boom cylinders	Two (2)
Cylinder bore	4.5 in (115 mm)
Cylinder rod diameter	3.1 in (80 mm)
Cylinder stroke	46.4 in (1 179 mm)
Arm cylinder	One (1)
Cylinder bore	4.9 in (125 mm)
Cylinder rod diameter	3.5 in (90 mm)
Cylinder stroke	50.4 in (1 280 mm)
Bucket cylinder	One (1)
Cylinder bore	4.1 in (105 mm)
Cylinder rod diameter	3.0 in (75 mm)
Cylinder stroke	38.8 in (985 mm)

SERVICE CAPACITIES

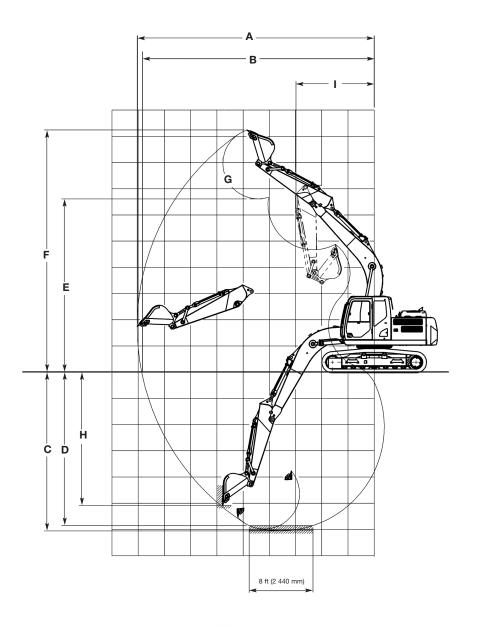
Fuel tank	79 gal (300 L)	
Hydraulic system Hydraulic tank	44 gal (167 L) 22 gal (82 L)	
Engine oil w/ filter	4.5 gal (17 L)	
Swing drive	1.3 gal (5 L)	
Final drive	1.5 gal (5.8 L)	
Cooling system	4.7 gal (17.8 L)	
DEF tank	22 gal (85 L)	

OTHER SPECIFICATIONS

Swing speed	11.5 RPM
Swing torque	33,300 lbf·ft (45 100 kN·m)
Swing brake	Mechanical disc
Undercarriage: Length Track gauge Carrier rollers – eac Track rollers – each	
Shoes – triple grouse Shoe width – std. Link pitch	er – each side 44 2 ft 0 in (600 mm) 8 in (190 mm)
Track: Chain Guides Adjustment	Grease lubricated/strutted Single Hydraulic



DIMENSIONS		
	8 ft 7 in (2.62 m) Arm	10 ft 0 in (3.04 m) Arm
A. Overall height	9 ft 9 in (2 960 mm)	10 ft 3 in (3 130 mm)
B. Cab height	9 ft 9 in (2 970 mm)	9 ft 9 in (2 970 mm)
C. Overall length – with attachment	27 ft 9 in (8 460 mm)	27 ft 11 in (8 520 mm)
D. Overall length – without attachment	14 ft 6 in (4 430 mm)	14 ft 6 in (4 430 mm)
E. Width of upper structure	8 ft 4 in (2 530 mm)	8 ft 4 in (2 530 mm)
F. Track overall length	13 ft 1 in (3 990 mm)	13 ft 1 in (3 990 mm)
G. Track overall width with 23.6 in (600 mm) shoes	8 ft 6 in (2 590 mm)	8 ft 6 in (2 590 mm)
H. Track shoe width	2 ft 0 in (600 mm)	2 ft 0 in (600 mm)
I. Center to center – idler to sprocket	10 ft 6 in (3 190 mm)	10 ft 6 in (3 190 mm)
J. Upper structure ground clearance	3 ft 4 in (1 020 mm)	3 ft 4 in (1 020 mm)
K. Minimum ground clearance	1 ft 5 in (420 mm)	1 ft 5 in (420 mm)
L. Rear tail swing radius	8 ft 1 in (2 470 mm)	8 ft 1 in (2 470 mm)



PERFORMANCE SPECS		
	8 ft 7 in (2.62 m) Arm	10 ft 0 in (3.04 m) Arm
A. Maximum dig radius	29 ft 8 in (9 040 mm)	30 ft 9 in (9 380 mm)
B. Dig radius at groundline	29 ft 1 in (8 870 mm)	30 ft 3 in (9 220 mm)
C. Maximum dig depth	19 ft 11 in (6 060 mm)	21 ft 4 in (6 490 mm)
D. Dig depth – 8 ft 0 in (2.44 m) level bottom	19 ft 3 in (5 860 mm)	20 ft 8 in (6 290 mm)
E. Dump height	21 ft 8 in (6 610 mm)	21 ft 11 in (6 690 mm)
F. Maximum reach height	30 ft 4 in (9 240 mm)	30 ft 6 in (9 290 mm)
G. Bucket rotation	178°	178°
H. Maximum vertical wall dig depth	16 ft 8 in (5 080 mm)	17 ft 2 in (5 220 mm)
I. Minimum swing radius	9 ft 10 in (2 990 mm)	10 ft 0 in (3 050 mm)
Arm digging force:		
Standard	17,800 lbf (79 kN)	16,200 lbf (72 kN)
Power Boost	18,800 lbf (84 kN)	17,300 lbf (77 kN)
Bucket digging force:		
Standard	25,200 lbf (112 kN)	25,200 lbf (112 kN)
Power Boost	26,500 lbf (118 kN)	26,500 lbf (118 kN)

8 ft 7 in (2.62 m) Arm Lift capacities calculated using a 1,050 lb (476 kg) bucket, 6,943 lb (3 150 kg) counterweight.

Load (Lift Point Height)	5 ft (1.5 m)		10 ft (3 m)		15 ft (4.5 m)		20 ft (6 m)		25 ft (7.5 m)		MAXIMUM REACH		
	END	SIDE	END	SIDE	END	SIDE	END	SIDE	END	SIDE	@	END	SIDE
+25 ft (7.5 m)							5,150 lb (2 336 kg)	5,150 lb (2 336 kg)			21 ft 0 in (6.40 m)	3,650 lb (1 656 kg)	3,650 lb (1 656 kg)
+20 ft (6 m)							7,100 lb (3 221 kg)	7,100 lb (3 221 kg)			25 ft 0 in (7.62 m)	3,300 lb (1 497 kg)	3,300 lb (1 497 kg)
+15 ft (4.5 m)							9,200 lb (4 173 kg)	7,000 lb (3 175 kg)	6,750 lb (3 062 kg)	4,650 lb (2 109 kg)	27 ft 4 in (8.33 m)	3,200 lb (1 451 kg)	3,200 lb (1 451 kg)
+10 ft (3 m)			18,500 lb (8 391 kg)	18,500 lb (8 391 kg)	13,350 lb (6 055 kg)	10,450 lb (4 740 kg)	10,400 lb (4 717 kg)	6,600 lb (2 994 kg)	7,150 lb (3 243 kg)	4,500 lb (2 041 kg)	28 ft 5 in (8.66 m)	3,250 lb (1 474 kg)	3,250 lb (1 474 kg)
+5 ft (1.5 m)			21,350 lb (9 684 kg)	17,600 lb (7 983 kg)	15,900 lb (7 212 kg)	9,600 lb (4 354 kg)	9,950 lb (4 513 kg)	6,150 lb (2 790 kg)	6,950 lb (3 152 kg)	4,250 lb (1 928 kg)	28 ft 7 in (8.71 m)	3,450 lb (1 565 kg)	3,350 lb (1 520 kg)
Groundline			17,200 lb (7 802 kg)	16,250 lb (7 371 kg)	15,150 lb (6 872 kg)	8,950 lb (4 060 kg)	9,550 lb (4 332 kg)	5,800 lb (2 631 kg)	6,750 lb (3 062 kg)	4,100 lb (1 860 kg)	27 ft 8 in (8.43 m)	3,850 lb (1 746 kg)	3,450 lb (1 565 kg)
-5 ft (-1.5 m)	13,450 lb (6 101 kg)	13,450 lb (6 101 kg)	21,950 lb (9 956 kg)	16,450 lb (7 462 kg)	14,850 lb (6 736 kg)	8,700 lb (3 946 kg)	9,400 lb (4 264 kg)	5,650 lb (2 563 kg)	6,700 lb (3 039 kg)	4,050 lb (1 837 kg)	25 ft 10 in (7.87 m)	4,550 lb (2 064 kg)	3,850 lb (1 746 kg)
-10 ft (-3 m)	19,550 lb (8 868 kg)	19,550 lb (8 868 kg)	28,000 lb (12 701 kg)	16,750 lb (7 598 kg)	14,950 lb (6 781 kg)	8,800 lb (3 992 kg)	9,500 lb (4 309 kg)	5,800 lb (2 631 kg)			22 ft 8 in (6.91 m)	6,000 lb (2 722 kg)	4,750 lb (2 155 kg)
-15 ft (-4.5 m)	28,400 lb (12 882 kg)	28,400 lb (12 882 kg)	22,600 lb (10 251 kg)	17,400 lb (7 893 kg)	15,100 lb (6 849 kg)	9,350 lb (4 241 kg)					17 ft 10 in (5.44 m)	10,550 lb (4 785 kg)	7,000 lb (3 175 kg)

10 ft 0 in (3.04 m) Arm Lift capacities calculated using a 950 lb (431 kg) bucket, 6,943 lb (3 150 kg) counterweight.

Load (Lift Point Height)		ft m)	5 ft (1.5 m)		10 ft (3 m)		15 ft (4.5 m)		20 ft (6 m)		25 ft (7.5 m)		MAXIMUM REACH		
	END	SIDE	END	SIDE	END	SIDE	END	SIDE	END	SIDE	END	SIDE	@	END	SIDE
+25 ft (7.5 m)									4,850 lb (2 200 kg)	4,850 lb (2 200 kg)			22 ft 7 in (6.88 m)	3,400 lb (1 542 kg)	3,400 lb (1 542 kg)
+20 ft (6 m)									6,550 lb (2 971 kg)	6,550 lb (2 971 kg)	4,800 lb (2 177 kg)	4,800 lb (2 177 kg)	26 ft 4 in (8.03 m)	3,100 lb (1 406 kg)	3,100 lb (1 406 kg)
+15 ft (4.5 m)									8,400 lb (3 810 kg)	7,150 lb (3 243 kg)	6,550 lb (2 971 kg)	4,750 lb (2 155 kg)	28 ft 6 in (8.69 m)	3,050 lb (1 383 kg)	3,050 lb (1 383 kg)
+10 ft (3 m)					16,350 lb (7 416 kg)	16,350 lb (7 416 kg)	12,200 lb (5 534 kg)	10,700 lb (4 853 kg)	10,150 lb (4 604 kg)	6,700 lb (3 039 kg)	7,250 lb (3 289 kg)	4,550 lb (2 064 kg)	29 ft 7 in (9.02 m)	3,150 lb (1 429 kg)	3,150 lb (1 429 kg)
+5 ft (1.5 m)					24,150 lb (10 954 kg)	18,150 lb (8 233 kg)	15,900 lb (7 212 kg)	9,750 lb (4 423 kg)	10,050 lb (4 559 kg)	6,250 lb (2 835 kg)	7,000 lb (3 175 kg)	4,300 lb (1 950 kg)	29 ft 8 in (9.04 m)	3,350 lb (1 520 kg)	3,150 lb (1 429 kg)
Groundline			7,250 lb (3 289 kg)	7,250 lb (3 289 kg)	19,350 lb (8 777 kg)	16,550 lb (7 507 kg)	15,200 lb (6 895 kg)	9,000 lb (4 082 kg)	9,600 lb (4 354 kg)	5,850 lb (2 654 kg)	6,750 lb (3 062 kg)	4,100 lb (1 860 kg)	28 ft 10 in (8.79 m)	3,750 lb (1 701 kg)	3,250 lb (1 474 kg)
-5 ft (-1.5 m)	10,300 lb (4 672 kg)	10,300 lb (4 672 kg)	12,700 lb (5 761 kg)	12,700 lb (5 761 kg)	22,000 lb (9 979 kg)	16,250 lb (7 371 kg)	14,800 lb (6 713 kg)	8,650 lb (3 924 kg)	9,350 lb (4 241 kg)	5,650 lb (2 563 kg)	6,650 lb (3 016 kg)	4,000 lb (1 814 kg)	27 ft 1 in (8.26 m)	4,450 lb (2 018 kg)	3,550 lb (1 610 kg)
-10 ft (-3 m)	13,750 lb (6 237 kg)	13,750 lb (6 237 kg)	17,950 lb (8 142 kg)	17,950 lb (8 142 kg)	28,850 lb (13 086 kg)	16,500 lb (7 484 kg)	14,800 lb (6 713 kg)	8,700 lb (3 946 kg)	9,400 lb (4 264 kg)	5,650 lb (2 563 kg)			24 ft 1 in (7.34 m)	5,800 lb (2 631 kg)	4,300 lb (1 950 kg)
-15 ft (-4.5 m)			28,300 lb (12 837 kg)	28,300 lb (12 837 kg)	24,650 lb (11 181 kg)	17,050 lb (7 734 kg)	15,100 lb (6 849 kg)	9,050 lb (4 105 kg)					19 ft 7 in (5.97 m)	9,300 lb (4 218 kg)	6,000 lb (2 722 kg)

NOTE: *Following number indicates hydraulic capacity

STANDARD EQUIPMENT

ENGINE

Isuzu AR-4JJ1X **Tier 4 Final Certified** Selective Catalytic Reduction - SCR **Diesel Oxidation Catalyst - DOC** Cooled Exhaust Gas Recirculation - CEGR EGR Coolers Four-cylinder turbo-charged diesel VGT turbocharger Electronic fuel injection High pressure common rail system Neutral safety start Auto-engine warm up Glow-plug pre-heat Fuel Economy Assist System - FEA Engine Protection Feature - EPF Dual-stage fuel filtration Dual element air filter Remote oil filter Drain for fuel tank Remote engine oil drain 500-hour engine oil change interval 24 Volt system Engine oil sample port Battery disconnect switch Emergency engine stop External Fuel and DEF gauges Fan housing Fuel cooler Fuel filter restriction indicator Fuel shut-off valve Idle start Radiator, oil cooler, intercooler - protective screen

FUEL ECONOMY SYSTEMS

Engine Idle/Fuel Economy System: Auto-idle One-touch idle Auto-idle shut-down BEC – Boom Economy Control AEC – Auto Economy Control SWC – Swing Relief Control SSC – Spool Stroke Control

HYDRAULICS

Auto power boost Auto swing priority Arm speed assistance – 2 pump flow Auxiliary flow control Auxiliary valve Boom speed assistance – 2 pump flow Bucket curl assist Control levers pre-wired for auxiliary hydraulics Electronically controlled hydraulic pumps Holding valve – Boom and Arm Fire wall Hydraulic filter restriction indicator Neutral pump de-stroke Oil cooler Power save Pump stand-by pressure Auto travel speed change Selectable work modes Free swing Hydraulic oil sample port Control pattern selector Pre-set auxiliary pump settings Auxiliary valve 5,000-hour hydraulic oil change interval 1,000-hour hydraulic filter change interval SAHR brake

UPPER STRUCTURE

ISO mirrors – 3 Viscous Cab mounts – fluid and spring Upper mounted work light – 70 watt Swivel guard belly pan Center cover – over main CV Fuel tank belly pan Handrail – RH access ISO guard rails Lifting eyes for counterweight Lockable fuel cap, service doors and tool box

ATTACHMENTS

Boom – 16 ft 11 in (5.15 m) Arm – 8 ft 7 in (2.62 m) Heavy-duty bucket linkage Boom mounted work light – 70 watt Auxiliary pipe brackets Centralized grease fittings Attachment cushion valve Arm and boom regeneration Bucket anti-clatter device Chrome pins Easy Maintenance System (EMS) bushings Teardrop pin retention keepers

OPERATOR ENVIRONMENT

ROPS protection FOPS cab top guard - Level 1 Pressurized cab Face vent Cab lights - 2 Interior dome light One-touch lock front window One piece window - right Safety glass windows Gate lock hydraulic activation Emergency exit and hammer Clear polycarbonate roof window with sunshade AC/heat/defrost with auto climate control LED Color monitor - 7 in (180 mm) 26 selectable languages for monitor On-board diagnostic system 10 programmable attachments settings on monitor - 5 single flow, 5 dual flow Seatbelt - 3 in (76 mm) Heated high-back cloth seat with air suspension and 65° tilt adjustment Sliding seat - 3.54 in (90 mm)

Adjustable armrests Tilting consoles – 4-position Sliding cockpit - 3.15 in (80 mm) Low-effort joystick controls Controls pre-wired for auxiliary Straight travel AM/FM radio with antenna, 2 speakers and Bluetooth capabilities Aux-in port for personal electronics Radio mute switch - joystick Rear-view camera Anti-theft system - start code system Rubber floormat 12 Volt electric outlet 24 Volt cigarette lighter Windshield wiper/washer Cup holder Storage compartments Warm/cool storage compartment Travel alarm with cancel switch Ignition keys One kev start & lock-up Cab filter - external Cab handrails Operator's manual

UNDERCARRIAGE

23.6 in (600 mm) steel shoes. triple semi-grouser Full overlap turntable bearing tub Single track chain guides Hydraulic track adjustment Sealed link chain Steps Carbody belly pan - swivel guard X-pattern carbody Lashing points - tie downs Extra Filter Kit: Engine oil filter Filter wrench Fuel filters Green plug oil drain hose for engine oil drain Hydraulic return filter Pilot circuit hydraulic filter

TELEMATICS

CASE SiteWatch™ Telematics – includes hardware and a 3-yr Advanced data subscription

OPTIONAL EQUIPMENT

ENGINE

Refueling pump

HYDRAULICS

Auxiliary hydraulics:

Single acting/joystick activated Double acting/joystick activated - thumb Multi-function with electronic pressure control/joystick activated with electronic proportional controls Secondary low-flow/joystick activated Proportional hydraulic controls

Hose Burst Check Valve - HBCV

ATTACHMENTS

Long arm - 10 ft 0 in (3.05 m) Quick coupler/Case multi-pin grabber

Tools:

Heavy-duty/Extreme-duty/Ditching Buckets; Hammers; Thumbs; Compaction plates.

Load holding control

UPPER STRUCTURE

Rubber bumper guard - order through Service Parts

UNDERCARRIAGE

27.6 in (700 mm) steel shoes, triple semi-grouser Track guides - triple

OPERATOR ENVIRONMENT

FOPS cab top guard - Level 2 Front grill guard - 2 x 2 in (50.8 x 50.8 mm) screen mesh Front rock guard - vertical bars Two piece/OPG 1 Front rock guard - vertical bars One piece/OPG 2 Vandal guard (front window) with common key Rain deflector - not available with Front guards Sun visor Side-view camera LED Package: Includes 1 Side view camera and 6 LED Lights - 2 front cab mounted, 2 rear

mounted and 1 mounted on each side

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Always read the Operator's Manual before operating any equipment. Inspect equipment before using it, and be sure it is operating properly. Follow the product safety signs and use any safety features provided.