

**PRELIMINARY**

**ENGINE**

Model	Isuzu AR-4JJ1X
Emissions Certification	Tier 4 Final
Fuel	Requires ultra-low sulfur fuel B5 biodiesel tolerant
Type	Water-cooled, 4-cycle diesel, high pressure common rail system – electric control. VGT Turbocharger w/ air cooled intercooler, SCR system
Cylinders	4-cylinder in-line
Displacement	183 in <sup>3</sup> (3.0 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 gradeability:	
Side-to-side	35°
Fore and aft	35°
Net horsepower – SAE J1349 @ 2200 RPM:	112 hp (83.2 kW)
Net max. torque – SAE J1349 @ 1800 RPM:	257 lbf-ft (349 N·m)
Cooling operating range:	113° to -4°F (45° to -20°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	3.4 mph (5.4 km/h)
Max. low speed	1.7 mph (2.8 km/h)
Automatic downshift	
Drawbar pull	35,969 lbf (160 kN)
Gradeability	70% – 35° Slope

**ELECTRICAL**

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

**OPERATOR ENVIRONMENT**

Air conditioner output	18,100 BTU/hr
Heater output	20,150 BTU/hr
Sound level inside cab – ISO6396	70 dBA
Electrical outlet	12 Volt
Cab interior light	10 watt
Rear view camera	Standard
Monitor:	
Rear view and side view – optional camera display; Mode 1: work mode; Travel mode; Attachment selection; Auto idle indicator; Fuel consumption gauge; Power boost icon; Fuel bar graph; Oil temperature bar graph; DEF/AdBlue bar graph; Auto glow indicator; Auxiliary mode display; Hour meter; Camera angle indicator; Mode 2: free swing/swing lock indicator; Light icon; Wiper icon; Mute icon; Seat belt icon; Warning messages; Time and date; Water temperature bar graph; DEF/AdBlue refill icon; Anti-theft icon; DTC indicator; Low output icon; SCR cleaning icon; SCR warning icons; Freeze protection; Trip meter; Pressure reading.	
Seat:	
High-back seat w/ heat and air suspension; Adjustments: 65° tilt, manual weight, seat height, headrest, lumbar support, backrest angle, pivoting armrests linked to consoles; Retractable seat belt and control consoles adjust independently of seat.	

**ATTACHMENT**

Boom	16 ft 11 in (5.15 m)
Arm options:	
Standard	8 ft 7 in (2.62 m)
Long	10 ft 0 in (3.05 m)
Bucket digging force*	25,179 lbf (112 kN)
w/ Auto Power-Boost	26,527 lbf (118 kN)

NOTE: \*Digging force ratings based on ISO6015.

**OPERATING WEIGHT**

Operating weight	38,391 lb (17 414 kg)
w/ shoes	2 ft 0 in (600 mm)
w/ boom	16 ft 11 in (5.15 m)
w/ arm	8 ft 7 in (2.62 m)
w/ bucket	1,067 lb (484 kg)
w/ counterweight	6,989 lb (3 170 kg)

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

**GROUND PRESSURE**

@ Standard operating weight	5.9 psi (0.41 bar)
w/ 31.5 in (800 mm) triple semi-grouser shoes	

**HYDRAULICS**

System design	Open center
Main pumps	Two-variable displacement axial piston pumps w/ regulating system
Max. rated flow x 2	37.5 gpm (142 L/min)
System pressures:	
Boom, arm and bucket w/ Power Boost	4,975 psi (343 bar)
Travel circuits	5,265 psi (363 bar)
Swing circuits	4,975 psi (343 bar)
Pilot pump	1 x gear design
Max. capacity	5.8 gpm (22 L/min)
Controls	w/ boom/arm holding valve
Right track travel, bucket, boom and arm acceleration.	1 x Four-spool section
Left track travel, auxiliary, swing, boom and arm acceleration.	1 x Five-spool section
Work mode selections	SP: Speed Priority H: Heavy-Duty A: Automatic
Swing motor	Fixed displacement axial piston
Swing final drive	Planetary gear reduction
Travel motor	Two-speed independent travel/axial piston

**HYDRAULIC CYLINDERS**

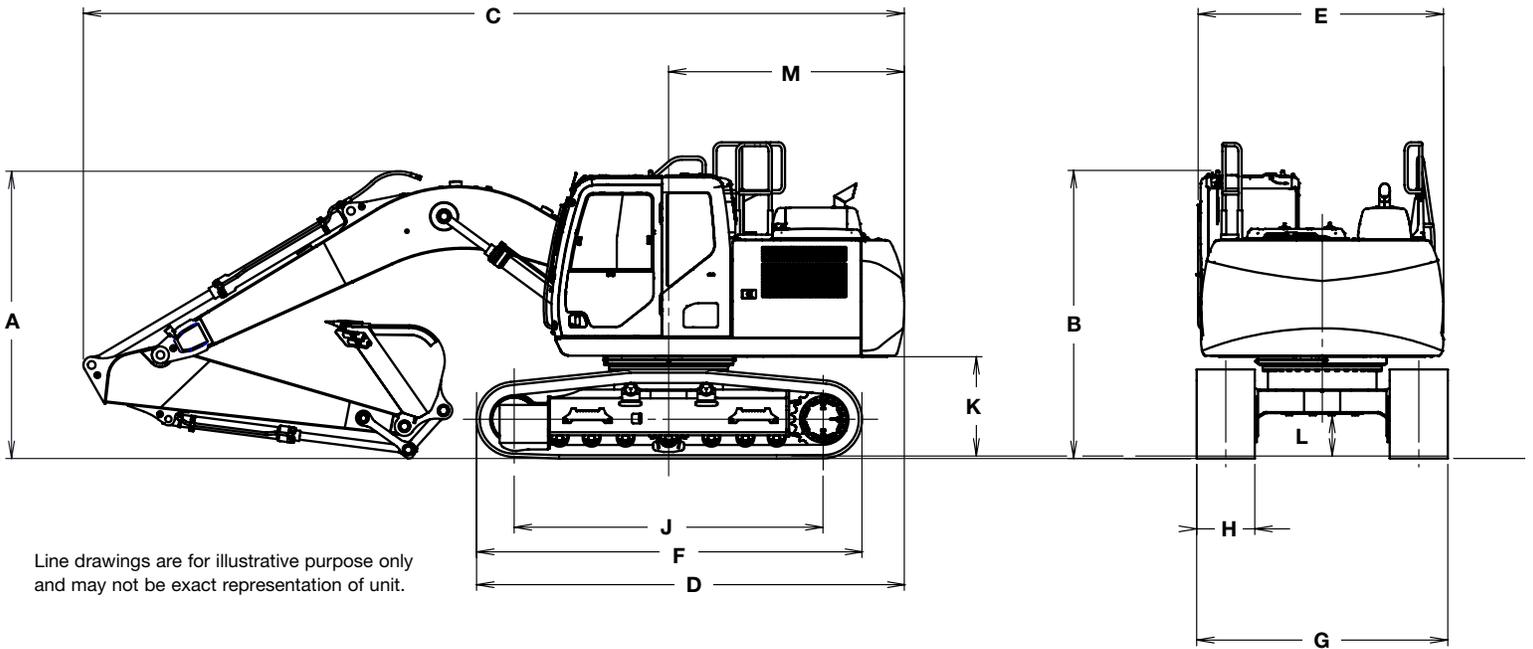
Boom cylinders	Two (2)
Cylinder bore	4.5 in (115 mm)
Cylinder rod diameter	3.1 in (80 mm)
Cylinder stroke	46.4 in (1 179 mm)
Arm cylinder	One (1)
Cylinder bore	4.9 in (125 mm)
Cylinder rod diameter	3.5 in (90 mm)
Cylinder stroke	50.4 in (1 280 mm)
Bucket cylinder	One (1)
Cylinder bore	4.1 in (105 mm)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

**SERVICE CAPACITIES**

Fuel tank	79.3 gal (300 L)
Hydraulic system	44.1 gal (167 L)
Hydraulic tank	21.7 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	22.5 gal (85 L)

## OTHER SPECIFICATIONS

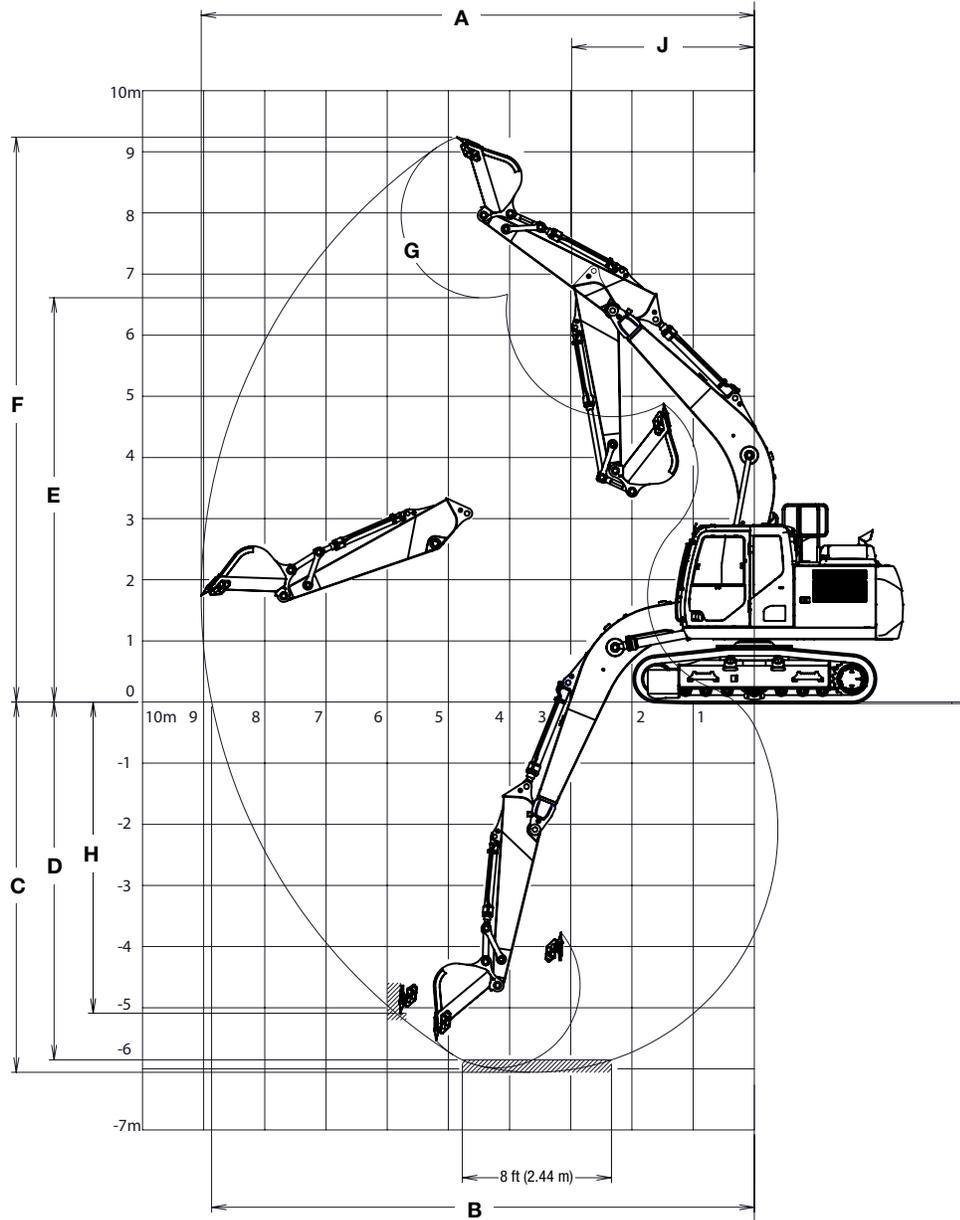
Swing speed	11.5 RPM
Swing torque	33,264 lbf-ft (45.1 kN-m)
Swing brake	Mechanical disc
Undercarriage:	
Length	13 ft 1 in (3 990 mm)
Track gauge	6 ft 6 in (1 990 mm)
Carrier rollers	2
Track rollers	7
Shoes – triple grouser	
Shoe width – std.	2 ft 0 in (600 mm)
Link pitch	7.5 in (190 mm)
Track:	
Chain	Grease lubricated/strutted
Guides	Double
Adjustment	Hydraulic



## DIMENSIONS

	8 ft 7 in (2.62 m) Arm	10 ft 0 in (3.05 m) Arm
<b>A.</b> Overall height – with attachment	9 ft 9 in (2 960 mm)	10 ft 3 in (3 130 mm)
<b>B.</b> Cab height	9 ft 9 in (2 970 mm)	9 ft 9 in (2 970 mm)
Overall height to top of guardrail	10 ft 8 in (3 260 mm)	10 ft 8 in (3 260 mm)
<b>C.</b> Overall length – with attachment	27 ft 9 in (8 460 mm)	27 ft 11 in (8 520 mm)
<b>D.</b> Overall length – without attachment	14 ft 6 in (4 430 mm)	14 ft 6 in (4 430 mm)
<b>E.</b> Width of upper structure	8 ft 4 in (2 530 mm)	8 ft 4 in (2 530 mm)
<b>F.</b> Track overall length	13 ft 1 in (3 990 mm)	13 ft 1 in (3 990 mm)
<b>G.</b> Track overall width with 23.6 in (600 mm) shoes	8 ft 6 in (2 590 mm)	8 ft 6 in (2 590 mm)
<b>H.</b> Track shoe width	2 ft 0 in (600 mm)	2 ft 0 in (600 mm)
<b>J.</b> Center to center – idler to sprocket	10 ft 6 in (3 190 mm)	10 ft 6 in (3 190 mm)
<b>K.</b> Upper structure ground clearance	3 ft 4 in (1 020 mm)	3 ft 4 in (1 020 mm)
<b>L.</b> Minimum ground clearance	1 ft 5 in (420 mm)	1 ft 5 in (420 mm)
<b>M.</b> Rear tail swing radius	8 ft 1 in (2 470 mm)	8 ft 1 in (2 470 mm)
Operating weight*	38,391 lb (17 414 kg)	38,569 lb (17 494 kg)
Ground pressure	5.9 psi (0.41 bar)	5.9 psi (0.41 bar)

NOTE: \*With 16 ft 11 in (5.15 m) boom, 23.6 in (600 mm) track shoe, 1,067 lb (484 kg) bucket, 165 lb (75 kg) operator, full fuel and standard equipment.



**PERFORMANCE SPECS**

	<b>8 ft 7 in (2.62 m) Arm</b>	<b>10 ft 0 in (3.05 m) Arm</b>
<b>A.</b> Maximum dig radius	29 ft 8 in (9 040 mm)	30 ft 9 in (9 380 mm)
<b>B.</b> Dig radius at groundline	29 ft 1 in (8 870 mm)	30 ft 3 in (9 220 mm)
<b>C.</b> Maximum dig depth	19 ft 11 in (6 060 mm)	21 ft 4 in (6 490 mm)
<b>D.</b> 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)
<b>E.</b> Dump height	21 ft 8 in (6 610 mm)	21 ft 11 in (6 690 mm)
<b>F.</b> Maximum reach height	30 ft 4 in (9 240 mm)	30 ft 6 in (9 290 mm)
<b>G.</b> Bucket rotation	178°	178°
<b>H.</b> Maximum vertical wall dig depth	16 ft 8 in (5 080 mm)	17 ft 2 in (5 220 mm)
<b>J.</b> Minimum swing radius	9 ft 10 in (2 990 mm)	10 ft 0 in (3 050 mm)
Arm digging force:		
Standard	17,760 lbf (79 kN)	16,186 lbf (72 kN)
Power Boost	18,884 lbf (84 kN)	17,310 lbf (77 kN)
Bucket digging force:		
Standard	25,179 lbf (112 kN)	25,179 lbf (112 kN)
Power Boost	26,527 lbf (118 kN)	26,527 lbf (118 kN)

# LIFT CAPACITIES

**8 ft 7 in (2.62 m)** Lift capacities using a 1,067 lb (484 kg) bucket, 6,989 lb (3 170 kg) counterweight.

Load (Lift Point Height)	MINIMUM REACH			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
<b>+25 ft (7.5 m)</b>	16 ft 8 in (5.1 m)	4,350 lb* (2 040 kg)*	4,350 lb* (2 040 kg)*							5,150 lb* (2 610 kg)*	5,150 lb* (2 610 kg)*			21 ft 0 in (6.52 m)	3,600 lb* (1 620 kg)*	3,600 lb* (1 620 kg)*
<b>+20 ft (6 m)</b>	17 ft 3 in (5.24 m)	8,250 lb* (3 800 kg)*	8,250 lb* (3 800 kg)*							7,100 lb* (3 250 kg)*	7,100 lb* (3 250 kg)*	(2 040 kg)*	(2 040 kg)*	25 ft 0 in (7.68 m)	3,250 lb* (1 480 kg)*	3,250 lb* (1 480 kg)*
<b>+15 ft (4.5 m)</b>	15 ft 2 in (4.55 m)	9,750 lb* (3 760 kg)*	9,750 lb* (3 760 kg)*							9,150 lb* (4 270 kg)*	6,950 lb (3 240 kg)	6,700 lb* (3 210 kg)*	4,700 lb (2 180 kg)	27 ft 4 in (8.35 m)	3,150 lb* (1 440 kg)*	3,150 lb* (1 440 kg)*
<b>+10 ft (3 m)</b>	6 ft 7 in (2.03 m)	17,750 lb* (7 260 kg)*	17,750 lb* (7 260 kg)*			18,500 lb* (8 560 kg)*	18,500 lb* (8 560 kg)*	13,350 lb* (6 190 kg)*	10,450 lb (4 840 kg)	10,400 lb (4 830 kg)	6,600 lb (3 060 kg)	7,200 lb (3 350 kg)	4,500 lb (2 100 kg)	28 ft 5 in (8.68 m)	3,250 lb* (1 470 kg)*	3,250 lb* (1 470 kg)*
<b>+5 ft (1.5 m)</b>	7 ft 11 in (2.4 m)	7,650 lb* (3 420 kg)*	7,650 lb* (3 420 kg)*			21,300 lb* (8 900 kg)*	17,700 lb (8 200 kg)	15,950 lb (7 410 kg)	9,600 lb (4 460 kg)	10,000 lb (4 640 kg)	6,200 lb (2 880 kg)	7,000 lb (3 250 kg)	4,300 lb (2 000 kg)	28 ft 7 in (8.7 m)	3,450 lb* (1 560 kg)*	3,400 lb (1 540 kg)
<b>Groundline</b>	5 ft 3 in (1.61 m)	6,250 lb* (2 840 kg)*	6,250 lb* (2 840 kg)*			17,200 lb* (7 530 kg)*	16,450 lb (7 530 kg)	15,250 lb (7 100 kg)	9,000 lb (4 190 kg)	9,650 lb (4 480 kg)	5,900 lb (2 730 kg)	6,800 lb (3 170 kg)	4,150 lb (1 930 kg)	27 ft 8 in (8.44 m)	3,850 lb* (1 730 kg)*	3,500 lb (1 590 kg)
<b>-5 ft (-1.5 m)</b>	1 ft 1 in (0.33 m)	9,300 lb* (4 190 kg)*	9,300 lb* (4 190 kg)*	13,400 lb* (6 060 kg)*	13,400 lb* (6 060 kg)*	21,900 lb* (9 650 kg)*	16,750 lb (7 700 kg)	15,000 lb (6 980 kg)	8,800 lb (4 100 kg)	9,500 lb (4 410 kg)	5,750 lb (2 670 kg)	6,800 lb (3 150 kg)	4,150 lb (1 920 kg)	25 ft 10 in (7.88 m)	4,550 lb* (2 050 kg)*	3,900 lb (1 780 kg)
<b>-10 ft (-3 m)</b>	1 ft 5 in (0.41 m)	15,000 lb* (6 710 kg)*	15,000 lb* (6 710 kg)*	19,500 lb* (8 610 kg)*	19,500 lb* (8 610 kg)*	27,950 lb* (12 920 kg)*	17,050 lb (7 930 kg)	15,100 lb (7 030 kg)	8,950 lb (4 160 kg)	9,600 lb (4 460 kg)	5,900 lb (2 720 kg)			22 ft 8 in (6.96 m)	6,000 lb* (2 700 kg)*	4,850 lb (2 180 kg)
<b>-15 ft (-4.5 m)</b>	4 ft 7 in (1.33 m)	27,150 lb* (11 820 kg)*	27,150 lb* (11 820 kg)*	28,350 lb* (12 550 kg)*	28,350 lb* (12 550 kg)*	22,550 lb* (10 540 kg)*	17,650 lb (8 210 kg)	15,100 lb* (7 100 kg)	9,450 lb (4 370 kg)					17 ft 10 in (5.52 m)	10,550 lb* (4 430 kg)*	7,100 lb (3 160 kg)

**10 ft 0 in (3.05 m)** Lift capacities using a 970 lb (440 kg) bucket, 6,989 lb (3 170 kg) counterweight.

Load (Lift Point Height)	MINIMUM REACH			5 ft (1.5 m)		10 ft (3 m)		15 ft (4.5 m)		20 ft (6 m)		25 ft (7.5 m)		30 ft (9 m)		MAXIMUM REACH		
	@	END	SIDE	END	SIDE	END	SIDE	END	SIDE	END	SIDE	END	SIDE	END	SIDE	@	END	SIDE
<b>+25 ft (7.5 m)</b>	18 ft 0 in (5.53 m)	4,400 lb* (2 130 kg)*	4,400 lb* (2 130 kg)*							4,800 lb* (2 220 kg)*	4,800 lb* (2 220 kg)*					22 ft 7 in (6.99 m)	3,350 lb* (1 510 kg)*	3,350 lb* (1 510 kg)*
<b>+20 ft (6 m)</b>	18 ft 7 in (5.66 m)	7,100 lb* (3 270 kg)*	7,100 lb* (3 270 kg)*							6,500 lb* (3 060 kg)*	6,500 lb* (3 060 kg)*	4,800 lb* (2 380 kg)*	4,800 lb* (2 280 kg)			26 ft 4 in (8.07 m)	3,100 lb* (1 400 kg)*	3,100 lb* (1 400 kg)*
<b>+15 ft (4.5 m)</b>	16 ft 11 in (5.1 m)	8,550 lb* (3 920 kg)*	8,550 lb* (3 920 kg)*							8,400 lb* (3 900 kg)*	7,100 lb (3 310 kg)	6,500 lb* (3 050 kg)*	4,800 lb (2 230 kg)			28 ft 6 in (8.71 m)	3,050 lb* (1 380 kg)*	3,050 lb* (1 380 kg)*
<b>+10 ft (3 m)</b>	5 ft 6 in (1.7 m)	9,800 lb* (5 120 kg)*	9,800 lb* (5 120 kg)*			16,350 lb* (7 530 kg)*	16,350 lb* (7 530 kg)*	12,200 lb* (5 650 kg)*	10,650 lb (4 950 kg)	10,100 lb* (4 650 kg)*	6,700 lb (3 120 kg)	7,300 lb (3 390 kg)	4,600 lb (2 130 kg)	(1 490 kg)*	(1 490 kg)*	29 ft 7 in (9.02 m)	3,150 lb* (1 420 kg)*	3,150 lb* (1 420 kg)*
<b>+5 ft (1.5 m)</b>	7 ft 0 in (2.12 m)	8,250 lb* (3 690 kg)*	8,250 lb* (3 690 kg)*			24,100 lb* (11 060 kg)*	18,200 lb (8 450 kg)	15,950 lb (7 390 kg)*	9,800 lb (4 540 kg)	10,100 lb (4 690 kg)	6,250 lb (2 910 kg)	7,050 lb (3 270 kg)	4,350 lb (2 030 kg)	(1 680 kg)*	(1 460 kg)	29 ft 8 in (9.04 m)	3,350 lb* (1 520 kg)*	3,200 lb (1 450 kg)
<b>Groundline</b>	3 ft 10 in (1.17 m)	6,050 lb* (2 730 kg)*	6,050 lb* (2 730 kg)*	7,250 lb* (3 250 kg)*	7,250 lb* (3 250 kg)*	19,350 lb* (8 450 kg)*	16,700 lb (7 750 kg)	15,300 lb (7 140 kg)	9,100 lb (4 220 kg)	9,700 lb (4 500 kg)	5,900 lb (2 750 kg)	6,850 lb (3 170 kg)	4,150 lb (1 940 kg)			28 ft 10 in (8.79 m)	3,750 lb* (1 690 kg)*	3,300 lb (1 490 kg)
<b>-5 ft (-1.5 m)</b>	0 ft 0 in (0 m)	10,300 lb* (4 630 kg)*	10,300 lb* (4 630 kg)*	12,700 lb* (5 710 kg)*	12,700 lb* (5 710 kg)*	21,950 lb* (9 680 kg)*	16,550 lb (7 700 kg)	14,950 lb (6 980 kg)	8,750 lb (4 070 kg)	9,450 lb (4 400 kg)	5,700 lb (2 650 kg)	6,750 lb (3 130 kg)	4,100 lb (1 900 kg)			27 ft 1 in (8.26 m)	4,450 lb* (2 000 kg)*	3,600 lb (1 640 kg)
<b>-10 ft (-3 m)</b>	0 ft 0 in (0 m)	13,750 lb* (6 240 kg)*	13,750 lb* (6 240 kg)*	17,950 lb* (7 940 kg)*	17,950 lb* (7 940 kg)*	28,800 lb* (12 850 kg)*	16,750 lb (7 810 kg)	15,000 lb (6 980 kg)	8,850 lb (4 100 kg)*	9,500 lb (4 420 kg)	5,750 lb (2 680 kg)					24 ft 1 in (7.38 m)	5,800 lb* (2 600 kg)*	4,350 lb (1 960 kg)
<b>-15 ft (-4.5 m)</b>	2 ft 7 in (0.73 m)	21,100 lb* (9 310 kg)*	21,100 lb* (9 310 kg)*	28,300 lb* (12 600 kg)*	28,300 lb* (12 600 kg)*	24,600 lb* (11 450 kg)*	17,300 lb (8 050 kg)	15,250 lb (7 110 kg)*	9,200 lb (4 260 kg)	(4 470 kg)	(2 760 kg)					19 ft 7 in (6.04 m)	9,300 lb* (4 080 kg)*	6,100 lb (2 710 kg)

NOTE: \*Following number indicates hydraulic capacity.

## STANDARD EQUIPMENT

<b>ENGINE</b> 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	<b>HYDRAULICS (continued)</b> 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	<b>OPERATOR ENVIRONMENT (continued)</b> 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 floor mat 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 key start & lock-up Cab filter – external Cab handrails Operator's manual
<b>FUEL ECONOMY SYSTEMS</b> 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	<b>UPPER STRUCTURE</b> ISO mirrors – 3 Cab ISO-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 – 2 right side Lifting eyes for counterweight Lockable fuel cap, service doors and tool box	<b>UNDERCARRIAGE</b> 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
<b>HYDRAULICS</b> 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	<b>ATTACHMENTS</b> 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	<b>TELEMATICS</b> CASE SiteWatch™ Telematics – includes hardware and a 3-yr Advanced data subscription
	<b>OPERATOR ENVIRONMENT</b> 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	

## OPTIONAL EQUIPMENT

ENGINE	ATTACHMENTS	OPERATOR ENVIRONMENT
Refueling pump	Long arm – 10 ft 0 in (3.05 m)	FOPS cab top guard – Level 2
<b>HYDRAULICS</b>	Quick coupler/Case multi-pin grabber	Front grill guard – 2 x 2 in (50.8 x 50.8 mm) screen mesh
Auxiliary hydraulics:	Tools:	Front rock guard – vertical bars Two piece/OPG 1
Single acting/joystick activated	Heavy-duty/Extreme-duty/Ditching Buckets;	Front rock guard – vertical bars One piece/OPG 2
Double acting/joystick activated – thumb	Hammers; Thumbs; Compaction plates.	Vandal guard (front window) with common key
Multi-function/joystick activated	Load holding control	Rain deflector – not available with Front guards
Secondary low-flow/joystick activated	<b>UPPER STRUCTURE</b>	Sun visor
Proportional hydraulic controls	Rubber bumper guard – order through Service Parts	Side-view camera
Hose Burst Check Valve – HBCV	<b>UNDERCARRIAGE</b>	LED Package: Includes 1 Side view camera and 6 LED Lights – 2 front cab mounted, 2 rear mounted and 1 mounted on each side
	27.6 in (700 mm) steel shoes, triple semi-grouser	
	Track guides – triple	



NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

NOTE: All engines meet current EPA emissions requirements.

IMPORTANT: Case Construction Equipment Inc. reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Case Construction Equipment Inc. does not warrant the safety or reliability of attachments from other manufacturers.

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