

250X₃ SPECIFICATIONS

SAE Net Horsepower: 177 HP (132 kW)
Operating Weight: 55,336 lbs. (25 100 kg)
Digging Depth: 22 ft. 8 in. (6.90 m)



Engine

Isuzu AL-4HK1X Tier 4A turbocharged diesel engine with electronic control (ECM) and high pressure common-rail fuel injection, 4-cylinder, Water-cooled, Cooled Exhaust Gas Recirculation (CEGR), Intercooler, Variable-Geometry Turbocharger (VGT), Diesel Particulate Diffuser (DPD) with Diesel Oxidation Catalyst (DOC) and Diesel Particulate Filter (DPF) for "passive regeneration" of exhaust emissions, Electronic fuel pump and priming, Fuel cooler, Auto-idle start, Auto warm-up, EPF engine protection, Dual-stage fuel filtration, In-cab fuel filter restriction indicator, Remote oil filter, Green plug oil drain, Double element air filter.

SAE Net Horsepower ... 177 hp (132 kW) @ 2,000 rpm
 Displacement 317 cu in (5.2 L)
 Maximum Torque ... 458 lbf-ft (621 Nm) @ 1800 rpm
 Starter..... 24V-5.0kW
 Alternator..... 50 amp
 Battery (2) 12-volt 92 amp hours

Cab and Controls

ROPS certified cab with climate control A/C and heat with defroster, Control panel with LED Hi-Definition color monitor, Rearview camera display, Fuel-efficiency gauge, DPF regeneration gauge, Low-effort joysticks pre-wired for auxiliary hydraulics, Control pattern changer, Safety glass windows, Sunroof with sunshade, Shockless cab suspension with four fluid mountings, KAB® reclining suspension seat, Sliding 4-position tilting control consoles, AM/FM sound system with MP3 auxiliary input jack, Digital clock, Dome light, Seat belt, Coat hook, Cup holder, Storage compartments, Floor mat, Footrests, Ashtray, 24-volt cigarette lighter, 12-volt outlet, Travel alarm, Handrails, Mirrors, Side-entry cab filter, Spare parts kit.

Four selectable working modes, Anti-theft password protection system, On-board self-diagnostic system with memory and service interval reminders, Auto-idling system, One-touch decelerator, Auto-idle engine shutdown, Auto-power boost, Neutral safety start, Gate-lock safety shutoff.

A/C Rating 20,080 BTU/h
 Heater Rating 21,030 BTU/h
 Sound Level - Cab Interior..... 70.0 dB(A)
 Sound Level - Exterior..... 100.0 dB(A)

Hydraulic System

Open-center system, Two variable-displacement axial-piston pumps and one gear pump for pilot controls, Main control valve with one 4-spool section and one 5-spool section with auxiliary spool: stackable, Auxiliary Control System, Oil cooler, Auto-power boost, Boom and arm holding valves, 6 micron return filter, Firewall.

Hydraulic Pumps

Pump Output 2 x 61.8 gpm (234 L/min)
 Pilot Pump Maximum Flow ... 5.3 gpm (20 L/min)

Relief Valve Settings

Boom/Arm/Bucket 4,970 psi (34.3 MPa)
 in Power Boost 5,330 psi (36.8 MPa)
 Swing Circuit 4,190 psi (28.9 MPa)
 Travel Circuit 4,970 psi (34.3 MPa)

Hydraulic Cylinders

number of cylinders - bore x rod x stroke
 Boom 2 - 5.1" x 3.5" x 52.6"
 (130 mm x 90 mm x 1,335 mm)
 Arm 1 - 5.7" x 4.1" x 65.4"
 (145 mm x 105 mm x 1,660 mm)
 Bucket 5.1" x 3.5" x 42.1"
 (130 mm x 90 mm x 1,070 mm)

Swing

Planetary reduction powered by axial-piston motor, Internal ring gear with grease cavity for swing pinion, Swing bearing is single-row, shear type ball bearing, Mechanical disc swing brake, Auto-power swing.

Swing Speed 10.6 rpm
 Tail Swing 9' 8" (2.95 m)
 Swing Torque..... 55,300 lbf-ft (74.9 kNm)

Undercarriage

X Pattern carbody with 15' 3" (4.65 m) LC long undercarriage by 8' 6" (2.59 m) track gauge, Sealed and strutted track chain with track guide, Sealed rollers and idlers, Two-speed independent hydrostatic travel with compact planetary final drive, Disc type brakes, Adjustable track tension, Carbody belly pan.

Carrier Rollers 2 per Side
 Track Rollers 9 per Side
 Track Link Pitch 7.48" (190 mm)
 Shoes 51 per Side
 Shoe Width..... 31.5" (800 mm)
 Ground Pressure..... 5.37 psi (0.037 MPa)

Travel System

Two-speed independent hydrostatic travel with compact axial-piston motors, Hydraulic motor powered output shaft coupled to a planetary reduction drive and track sprocket, All hydraulic components mounted within the width of side frame, Automatic downshift for high torque to overcome obstacles, Spring-applied hydraulic release parking brake built into each motor, Travel motors equipped with counterbalance valve to prevent over-speeding down an incline, Single-pedal straight line travel.

Travel Speeds 2.2 - 3.4 mph (3.5 - 5.5 km/h)
 Drawbar Pull..... 45,187 lbf (201 kN)
 Gradeability 70% (35°)

Attachment

Boom 19' 2" (5.85 m)

Available Arms Digging Force

• 9' 10" (3.00 m) 26,980 lbf (120 kN)
 with Auto Power Boost..... 29,000 lbf (129 kN)
 • 8' 2" (2.50 m) 31,700 lbf (141 kN)
 with Auto Power Boost..... 33,950 lbf (151 kN)
 • 11' 6" (3.52 m)..... 24,050 lbf (107 kN)
 with Auto Power Boost..... 25,850 lbf (115 kN)
 Bucket Digging Force 36,420 lbf (162 kN)
 with Auto Power Boost..... 39,120 lbf (174 kN)

Lubricant and Coolant Capacity

Fuel Tank 108.3 Gallons (410.0 Liters)
 Hydraulic System 66.0 Gallons (250.0 Liters)
 Hydraulic Tank..... 38.8 Gallons (147.0 Liters)
 Final Drive (per side) 1.3 Gallons (5.0 Liters)
 Swing Drive 2.6 Gallons (9.7 Liters)
 Engine Oil 7.8 Gallons (29.6 Liters)
 Coolant System 8.0 Gallons (30.2 Liters)

Operating Weight

Working weight with 31.5" (800 mm) shoes,
 19' 2" (5.85 m) boom, 9' 10" (3.0 m) arm,
 1,790 lb. (810 kg) bucket, 11,905 lb. (5 400 kg)
 counterweight 55,336 lbs. (25 100 kg)

Specifications **250**X₃

Lifting Capacities

Lifting Capacities - ISO Ratings

Radius of Load														
9' 10" (3.00 m) Arm with 19' 2" (5.85 m) Boom and 1,800 lb. (810 kg) Bucket with Power-Boost Applied														
	5' 0" (1.5 m)		10' 0" (3.0 m)		15' 0" (4.5 m)		20' 0" (6.0 m)		25' 0" (7.5 m)		30' 0" (9.0 m)		Cap at Max. Reach	
+25' 0" lbs														
(7.5 m) kg														
+20' 0" lbs														
(6.0 m) kg														
+15' 0" lbs														
(4.5 m) kg														
+10' 0" lbs														
(3.0 m) kg														
+5' 0" lbs														
(1.5 m) kg														
Ground Line lbs														
kg														
-5' 0" lbs	19,600*	19,600*	26,350*	26,350*	28,850*	18,700	18,850	12,000	13,250	8,550				
(1.5 m) kg	8 800*	8 800*	11 670*	11 670*	13 320*	8 700	8 780	5 570	6 160	3 970				
-10' 0" lbs	24,250*	24,250*	35,550*	35,550*	28,050*	18,850	18,900	12,050	13,400	8,700				
(3.0 m) kg	10 840*	10 840*	15 680*	15 680*	12 960*	8 760	8 790	5 600	6 220	4 030				
-15' 0" lbs	33,600*	33,600*	36,300*	36,300*	25,050*	19,300	18,150*	12,550						
(4.5 m) kg	14 930*	14 930*	16 840*	16 840*	11 640*	8 970	8 480*	5 800						
-20' 0" lbs			25,500*	25,500*	17,300*	17,300*								
(6.0 m) kg			12 140*	12 140*	8 350*	8 350*								

Radius of Load														
8' 2" (2.50 m) Arm with 19' 2" (5.85 m) Boom and 1,900 lb. (870 kg) Bucket with Power-Boost Applied														
	5' 0" (1.5 m)		10' 0" (3.0 m)		15' 0" (4.5 m)		20' 0" (6.0 m)		25' 0" (7.5 m)		30' 0" (9.0 m)		Cap at Max. Reach	
+25' 0" lbs														
(7.5 m) kg														
+20' 0" lbs														
(6.0 m) kg														
+15' 0" lbs														
(4.5 m) kg														
+10' 0" lbs														
(3.0 m) kg														
+5' 0" lbs														
(1.5 m) kg														
Ground Line lbs														
kg														
-5' 0" lbs	21,400*	21,400*	26,950*	26,950*	28,650*	18,650	18,750	11,900	13,200	8,500				
(1.5 m) kg	9 550*	9 550*	11 950*	11 950*	13 220*	8 670	8 740	5 540	6 140	3 950				
-10' 0" lbs	26,800*	26,800*	39,250*	37,250	27,250*	18,900	18,900	12,100	13,400	8,750				
(3.0 m) kg	11 970*	11 970*	17 260*	17 260*	12 600*	8 780	8 800	5 610	6 240	4 070				
-15' 0" lbs			33,000*	33,000*	23,150*	19,500	16,200*	12,650						
(4.5 m) kg			15 340*	15 340*	10 810*	9 050	7 690*	5 870						
-20' 0" lbs														
(6.0 m) kg														

Radius of Load														
11' 6" (3.52 m) Arm with 19' 2" (5.85 m) Boom and 1,750 lb. (790 kg) Bucket with Power-Boost Applied														
	5' 0" (1.5 m)		10' 0" (3.0 m)		15' 0" (4.5 m)		20' 0" (6.0 m)		25' 0" (7.5 m)		30' 0" (9.0 m)		Cap at Max. Reach	
+25' 0" lbs														
(7.5 m) kg														
+20' 0" lbs														
(6.0 m) kg														
+15' 0" lbs														
(4.5 m) kg														
+10' 0" lbs														
(3.0 m) kg														
+5' 0" lbs														
(1.5 m) kg														
Ground Line lbs														
kg														
-5' 0" lbs	16,550*	16,550*	25,200*	25,200*	28,700*	18,550	18,800	11,900	13,150	8,450				
(1.5 m) kg	7 570*	7 570*	11 160*	11 160*	13 250*	8 630	8 750	5 530	6 120	3 930				
-10' 0" lbs	21,700*	21,700*	32,400*	32,400*	28,300*	18,550	18,700	11,850	13,200	8,500				
(3.0 m) kg	9 700*	9 700*	14 320*	14 320*	13 080*	8 640	8 710	5 510	6 120	3 930				
-15' 0" lbs	32,000*	32,000*	38,700*	37,850	26,200*	18,950	18,750	12,200	12,400*	8,750				
(4.5 m) kg	14 170*	14 170*	17 940*	17 650	12 160*	8 800	8 730	5 640	6 200	4 080				
-20' 0" lbs			30,100*	30,100*	20,650*	19,300*	13,450*	12,500						
(6.0 m) kg			14 160*	14 160*	9 760*	8 990*	6 630*	5 820						