

350X₃

SPECIFICATIONS

SAE Net Horsepower: 266 HP (198 kW)
Operating Weight: 80,028 lbs. (36 300 kg)
Digging Depth: 24 ft 1 in (7.34 m)



Engine

Isuzu AL-6HK1X Tier 4A turbocharged diesel engine with electronic control (ECM) and high pressure common-rail fuel injection, 6-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 ... 266 hp (198 kW) @ 1,900 rpm
 Displacement 475 cu in (7.8 L)
 Maximum Torque ... 769 lbf-ft (1,043 Nm) @ 1,500 rpm
 Starter 24V-5.0kW
 Alternator 50 amp
 Battery (2) 12-volt 128 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 19,840 BTU/h
 Heater Rating 21,030 BTU/h
 Sound Level - Cab Interior 73.0 dB(A)
 Sound Level - Exterior 104.0 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 72.3 gpm (285 L/min)
 Pilot Pump Maximum Flow ... 7.5 gpm (28.5 L/min)

Relief Valve Settings

Boom/Arm/Bucket 4,970 psi (34.3 MPa)
 in Power Boost 5,410 psi (37.3 MPa)
 Swing Circuit 4,410 psi (30.4 MPa)
 Travel Circuit 4,970 psi (34.3 MPa)

Hydraulic Cylinders

number of cylinders - bore x rod x stroke
 Boom 2 - 5.7" x 3.9" x 58.9"
 (145 mm x 100 mm x 1,495 mm)
 Arm 1 - 6.7" x 4.7" x 68.8"
 (170 mm x 120 mm x 1,748 mm)
 Bucket 5.9" x 4.1" x 47.6"
 (150 mm x 105 mm x 1,210 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 9.7 rpm
 Tail Swing 11' 8" (3.55 m)
 Swing Torque 82,600 lbf-ft (112.0 kNm)

Undercarriage

X Pattern carbody with 16' 4" (4.98m) LC long undercarriage by 8' 6" (2.60m) 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 8 per Side
 Track Link Pitch 8.50" (216 mm)
 Shoes 48 per Side
 Shoe Width 31.5" (800 mm)
 Ground Pressure 7.40 psi (0.051 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 2.0 - 3.3 mph (3.2 - 5.3 km/h)
 Drawbar Pull 60,000 lbf (267 kN)
 Gradeability 70% (35°)

Attachment

Boom 21' 2" (6.45 m)

Available Arms

Digging Force
 • 10' 8" (3.25 m) 36,850 lbf (164 kN)
 with Auto Power Boost 40,020 lbf (178 kN)
 • 8' 8" (2.63 m) 43,840 lbf (195 kN)
 with Auto Power Boost 47,430 lbf (211 kN)
 • 13' 3" (4.04 m) 31,590 lbf (141 kN)
 with Auto Power Boost 34,310 lbf (153 kN)

Bucket Digging Force 51,440 lbf (229 kN)
 with Auto Power Boost 55,840 lbf (248 kN)

Lubricant and Coolant Capacity

Fuel Tank 153.2 Gallons (580.0 Liters)
 Hydraulic System 92.5 Gallons (350.0 Liters)
 Hydraulic Tank 46.2 Gallons (175.0 Liters)
 Final Drive (per side) 2.9 Gallons (11.0 Liters)
 Swing Drive 1.3 Gallons (5.0 Liters)
 Engine Oil 12.9 Gallons (49.0 Liters)
 Coolant System 9.4 Gallons (35.4 Liters)

Operating Weight

Working weight with 31.5" (800 mm) shoes,
 21' 2" (6.45 m) boom, 10' 8" (3.25 m) arm,
 2,580 lb. (1 170 kg) bucket, 16,315 lb. (7 400 kg)
 counterweight 80,028 lbs. (36 300 kg)

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Lifting Capacities

Lifting Capacities - ISO Ratings

Radius of Load																		
10' 8" (3.25 m) Arm with 21' 2" (6.45 m) Boom and 2,577 lb. (1 169 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)		35' 0" (10.5 m)		Cap at Max. Reach			
	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side		
+30' 0" lbs																	8,600*	8,600*
(9.0 m) kg																	3 850*	3 850*
+25' 0" lbs										14,050*	14,050*	9,650*	9,650*				8,000*	8,000*
(7.5 m) kg										6 610*	6 610*	5 210*	5 210*				3 620*	3 620*
+20' 0" lbs										16,250*	15,700*	14,750*	11,450*				7,800*	7,800*
(6.0 m) kg										7 420*	7 280*	6 730*	5 350*				3 540*	3 540*
+15' 0" lbs									20,900*	20,900*	15,350*	15,800*	11,150*				7,900*	7,900*
(4.5 m) kg									9 670*	9 670*	8 220*	7 130*	7 280*	5 190*			3 580*	3 580*
+10' 0" lbs			46,750*	46,750*	33,950*	32,300	24,750*	20,900	20,050*	14,600	16,600	10,700	9,250*	8,050	8,200*	7,950		
(3.0 m) kg			18 010*	18 010*	15 830*	14 990	11 470*	9 690	9 260*	6 780	7 720	4 990	5 320*	3 770	3 710*	3 600		
+5' 0" lbs			17,600*	17,600*	39,450*	30,300	28,000*	19,600	21,600	13,850	16,150	10,300	9,200*	7,850	8,700*	7,850		
(1.5 m) kg			7 990*	7 990*	18 080*	14 060	12 950*	9 100	10 030	6 450	7 510	4 800	5 460*	3 670	3 940*	3 550		
Ground Line lbs			23,700*	23,700*	41,250*	28,750	29,750*	18,650	21,050	13,300	15,800	10,000			9,550*	8,050		
kg			10 510*	10 510*	18 950*	13 370	13 750*	8 670	9 800	6 190	7 350	4 650			4 330*	3 660		
-5' 0" lbs	23,500*	23,500*	32,100*	32,100*	41,050*	28,500	29,600	18,250	20,750	13,000	15,650	9,850			10,950*	8,750		
(1.5 m) kg	10 500*	10 500*	14 270*	14 270*	18 660*	13 250	13 780*	8 480	9 650	6 050	7 280	4 580			4 940*	3 950		
-10' 0" lbs	32,300*	32,300*	43,250*	43,250*	39,050*	28,750	28,900*	18,350	20,850	13,150					13,350*	10,050		
(3.0 m) kg	14 510*	14 510*	19 160*	19 160*	18 050*	13 380	13 370*	8 520	9 680	6 100					5 990*	4 530		
-15' 0" lbs	43,000*	43,000*	48,150*	48,150*	34,350*	29,450*	25,600*	18,850	18,600*	13,700					16,250*	12,600		
(4.5 m) kg	19 170*	19 170*	22 330*	22 330*	15 950*	13 680	11 930*	8 750	8 820*	6 380					7 400*	5 630		
-20' 0" lbs			34,250*	34,250*	25,100*	25,100*	17,100*	17,100*							15,500*	15,500*		
(6.0 m) kg			16 200*	16 200*	11 910*	11 910*	8 390*	8 390*							7 110*	7 110*		

Radius of Load																		
8' 8" (2.63 m) Arm with 21' 2" (6.45 m) Boom and 2,731 lb. (1 239 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					
	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side				
+30' 0" lbs														12,300*	12,300*			
(9.0 m) kg														5 520*	5 520*			
+25' 0" lbs									16,300*	15,700*				11,350*	11,350*			
(7.5 m) kg									7 460*	7 280*				5 130*	5 130*			
+20' 0" lbs									17,500*	15,400	15,650*	10,950			11,000*	10,000		
(6.0 m) kg									7 980*	7 170	7 150*	5 120			4 980*	4 500		
+15' 0" lbs					27,750*	27,750*	22,250*	21,250	18,700*	14,750	16,500	10,700	11,000*	8,900				
(4.5 m) kg					12 770*	12 770*	10 310*	9 870	8 650*	6 870	7 640	4 980	5 000*	4 010				
+10' 0" lbs					33,400*	31,450	25,850*	20,100	20,650*	14,050	16,150	10,300	11,300*	8,350				
(3.0 m) kg					15 490*	14 590	11 980*	9 340	9 540*	6 530	7 530	4 800	5 120*	3 780				
+5' 0" lbs					38,700*	29,100	28,550*	18,900	21,200	13,400	15,750	9,950	11,850*	8,250				
(1.5 m) kg					17 890*	13 500	13 220*	8 780	9 860	6 230	7 340	4 630	5 390*	3 730				
Ground Line lbs					40,700*	28,050	29,500	18,150	20,650	12,900	15,500	9,700	12,950*	8,550				
kg					18 760*	13 030	13 690*	8 420	9 610	6 000	7 210	4 510	5 880*	3 870				
-5' 0" lbs	21,300*	21,300*	32,150*	32,150*	39,950*	28,200	29,200	17,900	20,500	12,750	15,550	9,750	14,750*	9,400				
(1.5 m) kg	9 910*	9 910*	14 290*	14 290*	18 440*	13 130	13 560*	8 330	9 520	5 930	7 220	4 520	6 670*	4 250				
-10' 0" lbs	35,600*	35,600*	46,750*	46,750*	36,900*	28,650	27,600*	18,200	20,550	13,100			16,500*	11,050				
(3.0 m) kg	15 950*	15 950*	20 670*	20 670*	17 060*	13 330	12 780*	8 450	9 550	6 060			7 450*	4 970				
-15' 0" lbs			41,600*	41,600*	30,800*	28,950	22,850*	18,800					15,650*	14,400				
(4.5 m) kg			19 330*	19 330*	14 340*	13 470	10 720*	8 750					7 150*	6 440				

Radius of Load																		
13' 3" (4.04 m) Arm with 21' 2" (6.45 m) Boom and 2,306 lb. (1 046 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)		35' 0" (10.5 m)		Cap at Max. Reach			
	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side		
+30' 0" lbs																	6,700*	6,700*
(9.0 m) kg																	3 010*	3 010*
+25' 0" lbs												11,300*	11,300*				6,250*	6,250*
(7.5 m) kg												5 340*	5 340*				2 830*	2 830*
+20' 0" lbs												13,100*	11,750	7,800*	7,800*		6,100*	6,100*
(6.0 m) kg												5 980*	5 480	4 200*	4 010		2 780*	2 780*
+15' 0" lbs										15,850*	15,550*	14,500*	11,350	11,000*	8,400		6,200*	6,200*
(4.5 m) kg										7 320*	7 210	6 710*	5 280	5 420*	3 920		2 810*	2 810*
+10' 0" lbs					29,650*	29,650*	22,450*	21,200	18,500*	14,850	15,900*	10,850	12,750	8,100	6,400*	6,400*		
(3.0 m) kg					13 780*	13 780*	10 380*	9 840*	8 540*	6 900	7 320*	5 050	5 970	3 790	2 910*	2 910*		
+5' 0" lbs			29,650*	29,650*	36,550*	31,100	26,150*	19,950	20,700*	14,000	16,200	10,350	12,500	7,850	6,800*	6,800*		
(1.5 m) kg			12 640*	12 640*	16 950*	14 440	12 100*	9 260	9 550*	6 510	7 540	4 810	5 820	3 660	3 090*	3 090*		
Ground Line lbs	11,800*	11,800*	25,500*	25,500*	40,250*	28,950	28,650*	18,750	21,100	13,300	15,750	9,900	12,250	7,600	7,450*	7,000		
kg	5 290*	5 290*	11 250*	11 250*	18 610*	13 450	13 240*	8 700	9 810	6 180	7 320	4 610	5 700	3 550	3 390*	3 180		
-5' 0" lbs	20,550*	20,550*	30,550*	30,550*	40,850*	28,000	29,400	18,000	20,550	12,800	15,450	9,650	8,900*	7,550	8,500*	7,500		
(1.5 m) kg	9 230*	9 230*	13 880*	13 880*	18 850*	13 020	13 660*	8 360	9 560	5 960	7 180	4 480	5 280*	3 500	3 840*	3 400		
-10' 0" lbs	27,950*	27,950*	38,700*	38,700*	39,950*	28,050	29,100	17,900	20,450	12,750	15,500	9,650			10,150*	8,450		
(3.0 m) kg	12 530*	12 530*	17 180*	17 180*	18 440*	13 040	13 480*	8 310	9 510	5 920	7 190	4 490			4 580*	3 820		
-15' 0" lbs	38,300*	38,300*	50,600*	50,600*	36,850*	28,550	27,250*	18,200	20,450*	13,100					13,200*	10,250		
(4.5 m) kg	17 030*	17 030*	22 670*	22 670*	17 070*	13 260	12 640*	8 450	9 500	6 060					5 890*	4 590		
-20' 0" lbs			42,750*	42,750*	30,300*	28,800	22,150*	18,750							15,000*	13,850		
(6.0 m) kg			20 040*	20 040*	14 200*	13 400	10 470*	8 720							6 870*	6 130		