

300X₃ SPECIFICATIONS

SAE Net Horsepower: 207 HP (154 kW)
Operating Weight: 65,918 lbs. (29 900 kg)
Digging Depth: 23 ft. 4 in. (7.10 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 ... 207 hp (154 kW) @ 1,800 rpm
 Displacement 475 cu in (7.8 L)
 Maximum Torque 670 bf-ft (909 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 20,080 BTU/h
 Heater Rating 21,030 BTU/h
 Sound Level - Cab Interior 70.0 dB(A)
 Sound Level - Exterior 102.0 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 64.2 gpm (243 L/min)
 Pilot Pump Maximum Flow ... 7.1 gpm (27.0 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 4,260 psi (29.4 MPa)
 Travel Circuit 4,970 psi (34.3 MPa)

Hydraulic Cylinders

number of cylinders - bore x rod x stroke
 Boom 2 - 5.5" x 3.7" x 53.9"
 (140 mm x 95 mm x 1,369 mm)
 Arm 1 - 5.9" x 4.1" x 61.8"
 (150 mm x 105 mm x 1,569 mm)
 Bucket 5.3" x 3.5" x 42.4"
 (135 mm x 90 mm x 1,078 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 10.0 rpm
 Tail Swing 10' 4" (3.16 m)
 Swing Torque 68,200 lbf-ft (92.4 kNm)

Undercarriage

X Pattern carbody with 15' 11" (4.85 m) LC long undercarriage by 8' 6" (2.60 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 8.0" (203 mm)
 Shoes 50 per Side
 Shoe Width 31.5" (800 mm)
 Ground Pressure 6.24 psi (0.043 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 - 3.4 mph (3.2 - 5.4 km/h)
 Drawbar Pull 52,380 lbf (233 kN)
 Gradeability 70% (35°)

Attachment

Boom 20' 2" (6.15 m)

Available Arms

Digging Force
 • 10' 5" (3.18 m) 27,340 lbf (122 kN)
 with Auto Power Boost 29,760 lbf (132 kN)

• 8' 8" (2.65 m) 31,520 lbf (140 kN)
 with Auto Power Boost 34,400 lbf (153 kN)

• 12' 0" (3.66 m) 24,680 lbf (110 kN)
 with Auto Power Boost 26,680 lbf (119 kN)

Bucket Digging Force 39,250 lbf (175 kN)
 with Auto Power Boost 42,760 lbf (190 kN)

Lubricant and Coolant Capacity

Fuel Tank 118.88 Gallons (450.0 Liters)
 Hydraulic System ... 79.25 Gallons (300.0 Liters)
 Hydraulic Tank 38.83 Gallons (147.0 Liters)
 Final Drive (per side) 2.40 Gallons (9.1 Liters)
 Swing Drive 1.59 Gallons (6.0 Liters)
 Engine Oil 10.30 Gallons (39.0 Liters)
 Coolant System 8.14 Gallons (30.8 Liters)

Operating Weight

Working weight with 31.5" (800 mm) shoes,
 20' 2" (6.15 m) boom, 10' 5" (3.18 m) arm,
 1,940 lb. (880 kg) bucket 11,685 lb. (5 300 kg)
 counterweight 65,918 lbs. (29 900 kg)

Specifications **300**X₃

Lifting Capacities

Lifting Capacities - ISO Ratings

Radius of Load - 10' 5" (3.18 m) Arm with 20' 2" (6.15 m) Boom and 1,778 lb. (806 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
+25' 0"	lb									10,950*	10,950*			7,250*	7,250*
	kg									4,920*	4,920*			3,290*	3,290*
+20' 0"	lb									12,400*	12,350*	9,550*	8,850	7,050*	7,050*
	kg									5,790*	5,720	4,700*	4,140	3,200*	3,200*
+15' 0"	lb							17,550*	17,050	15,750*	12,000	12,250*	8,700	7,150*	7,150*
	kg							8,090*	7,900	7,260*	5,570	5,780*	4,050	3,240*	3,240*
+10' 0"	lb			39,550*	39,550*	27,800*	25,850	21,100*	16,450	17,450*	11,450	13,000	8,400	7,400*	6,750
	kg			18,480*	18,480*	12,910*	12,000	9,750*	7,640	8,090*	5,330	6,050	3,920	3,370*	3,060
+5' 0"	lb			17,100*	17,100*	33,500*	24,000	24,050*	15,500	17,050	10,950	12,700	8,150	7,900*	6,650
	kg			7,270*	7,270*	15,540*	11,150	11,110*	7,200	7,920	5,090	5,900	3,790	3,590*	3,010
Ground	lb			18,750*	18,750*	35,750*	22,700	23,600	14,750	16,550	10,550	12,450	7,900	8,700*	6,800
Line	kg			8,280*	8,280*	16,420*	10,550	10,990	6,850	7,700	4,900	5,780	3,680	3,940*	3,090
-5' 0"	lb	18,400*	18,400*	24,550*	24,550*	35,900*	22,300	23,150	14,350	16,300	10,300	12,350	7,800	10,000*	7,350
	kg	8,220*	8,220*	10,890*	10,890*	16,580*	10,370	10,780	6,670	7,570	4,780	5,730	3,630	4,520*	3,320
-10' 0"	lb	23,700*	23,700*	32,850*	32,850*	34,300*	22,450	23,150	14,400	16,350	10,350			12,300*	8,400
	kg	10,640*	10,640*	14,530*	14,530*	15,850*	10,440*	10,780	6,690	7,590	4,810			5,520*	3,790
-15' 0"	lb	32,000*	32,000*	42,450*	42,450*	30,050*	22,950	22,250*	14,800					15,300*	10,550
	kg	14,240*	14,240*	19,680*	19,680*	13,970*	10,660	10,390*	6,860					6,950*	4,720
-20' 0"	lb			29,550*	29,550*	21,400*	21,400*							14,350*	14,350*
	kg			14,040*	14,040*	10,210*	10,210*							6,570*	6,570*

Radius of Load - 8' 8" (2.65 m) Arm with 20' 2" (6.15 m) Boom and 1,778 lb. (868 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
+25' 0"	lb									12,150*	12,150*			9,350*	9,350*
	kg									5,820*	5,740			4,210*	4,210*
+20' 0"	lb									14,650*	12,150			9,000*	8,900
	kg									6,740*	5,660			4,090*	3,990
+15' 0"	lb					19,900*	19,900*	18,950*	17,050	16,850*	11,750	13,100	8,550	9,050*	7,800
	kg					9,480*	9,480*	8,730*	7,910	7,730*	5,480	6,110	3,980	4,120*	3,510
+10' 0"	lb					29,350*	25,350	22,250*	16,150	17,400	11,300	12,850	8,300	9,400*	7,250
	kg					13,510*	11,760	10,290*	7,500	8,090	5,250	5,990	3,870	4,270*	3,290
+5' 0"	lb					34,050*	23,500	24,150	15,250	16,900	10,850	12,600	8,050	10,000*	7,150
	kg					15,700*	10,920	11,220*	7,090	7,850	5,040	5,860	3,760	4,530*	3,230
Ground	lb			17,400*	17,400*	35,900*	22,500	23,500	14,650	16,500	10,500	12,400	7,900	10,950*	7,350
Line	kg			7,610*	7,610*	16,540*	10,460	10,930	6,800	7,670	4,870	5,770	3,670	4,960*	3,330
-5' 0"	lb	19,200*	19,200*	25,150*	25,150*	35,650*	22,400	23,150	14,400	16,300	10,300			12,600	8,000
	kg	8,550*	8,550*	11,160*	11,160*	16,440*	10,420	10,780	6,680	7,580	4,790			5,700*	3,620
-10' 0"	lb	26,200*	26,200*	35,700*	35,700*	33,150*	22,650	23,300	14,550	16,500*	10,550			14,650	9,350
	kg	11,730*	11,730*	15,780*	15,780*	15,330*	10,530	10,830	6,750	7,660	4,880			6,610	4,210
-15' 0"	lb			38,050*	38,050*	27,750*	23,250	20,350*	15,100					15,400*	12,150
	kg			17,690*	17,690*	12,930*	10,800	9,580*	6,990					7,010*	5,420

Radius of Load - 12' 0" (3.66 m) Arm with 20' 2" (6.15 m) Boom and 1,778 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)		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"	lb															6,600*	6,600*
	kg															2,950*	2,950*
+25' 0"	lb									9,400*	9,400*	6,550*	6,550*			6,050*	6,050*
	kg									4,380*	4,380*	3,480*	3,480*			2,740*	2,740*
+20' 0"	lb									11,550*	11,550*	9,550*	8,950			5,850*	5,850*
	kg									5,420*	5,420*	4,500*	4,190			2,660*	2,660*
+15' 0"	lb									14,150*	12,100	11,250*	8,750			5,900*	5,900*
	kg									6,600*	5,620	5,230*	4,080			2,680*	2,680*
+10' 0"	lb			20,550*	20,550*	25,500*	25,500*	19,850*	16,650	16,600*	11,550	13,000	8,450	7,100*	6,300	6,100*	6,100*
	kg			10,710*	10,710*	11,840*	11,840*	9,170*	7,740	7,690*	5,370	6,050	3,930	3,810*	2,950	2,770*	2,770*
+5' 0"	lb			22,800*	22,800*	31,700*	24,400	23,000*	15,600	17,100	11,000	12,650	8,100	7,500*	6,150	6,500*	6,050
	kg			9,640*	9,640*	14,700*	11,320	10,630*	7,250	7,940	5,110	5,900	3,780	4,060*	2,880	2,940*	2,740
Ground	lb	8,050*	8,050*	19,000*	19,000*	35,250*	22,800	23,650	14,750	16,550	10,500	12,350	7,850			7,100*	6,200
Line	kg	3,610*	3,610*	8,360*	8,360*	16,190*	10,590	11,010	6,860	7,690	4,880	5,750	3,650			3,210*	2,800
-5' 0"	lb	16,000*	16,000*	23,150*	23,150*	35,800*	22,100	23,050	14,250	16,150	10,150	12,200	7,650			8,100*	6,600
	kg	7,180*	7,180*	10,270*	10,270*	16,530*	10,280	10,730	6,610	7,520	4,720	5,670	3,570			3,650*	3,000
-10' 0"	lb	21,200*	21,200*	30,000*	30,000*	34,850*	22,150	22,950	14,200	16,150	10,150	12,200	7,750			9,700*	7,500
	kg	9,510*	9,510*	13,280*	13,280*	16,090*	10,290	10,680	6,580	7,500	4,710	5,700	3,600			4,380*	3,380
-15' 0"	lb	28,250*	28,250*	41,200*	41,200*	31,550*	22,500	22,950	14,450	16,300	10,500					12,800*	9,150
	kg	12,580*	12,580*	18,560*	18,560*	14,640*	10,460	10,680	6,710	7,570	4,860					5,720*	4,100
-20' 0"	lb			34,600*	34,600*	24,650*	22,850	17,450*	14,850							14,100*	12,750
	kg			16,290*	16,290*	11,620*	10,640	8,370*	6,910							6,420*	5,630