

145X₃ SPECIFICATIONS

SAE Net Horsepower: 100 HP (75 kW)

Operating Weight: 33,069 lbs. (15 000 kg)

Digging Depth: 18 ft. 1 in. (5.51 m)



Engine

Isuzu AM-4JJ1X 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 100 hp (75 kW) @ 2,000 rpm
Displacement 183 cu in (3.0 L)
Maximum Torque ... 265 lbf-ft (359 Nm) @ 1600 rpm
Starter 24V-4.0kW
Alternator 50 amp
Battery (2) 12-volt 72 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, 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 34.1 gpm (129 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 5,260 psi (36.3 MPa)
Swing Circuit 4,060 psi (28.0 MPa)
Travel Circuit 4,970 psi (34.3 MPa)

Hydraulic Cylinders

number of cylinders - bore x rod x stroke
Boom 2 - 4.1" x 3.0" x 44.1"
(105 mm x 75 mm x 1,120 mm)
Arm 1 - 4.5" x 3.1" x 43.6"
(115 mm x 80 mm x 1,108 mm)
Bucket 3.7" x 2.6" x 34.7"
(95 mm x 65 mm x 881 mm)
Blade 2 - 4.5" x 2.8" x 9.8"
(115 mm x 70 mm x 250 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 5' 1" (1.55 m)
Swing Torque 27,400 lbf-ft (37.0 kNm)

Undercarriage

X Pattern carbody with LC long undercarriage or regular undercarriage with dozer blade, 6' 6" (1.99 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

LC no blade 2 per Side
Regular undercarriage with blade 1 per Side

Track Rollers

LC no blade 7 per Side
Regular undercarriage with blade 7 per Side
Track Link Pitch 6.75" (172 mm)

Shoes

LC no blade 47 per Side
Regular undercarriage with blade 43 per Side
Shoe Width

LC no blade 23.6" (600 mm)
Regular undercarriage with blade 23.6" (600 mm)

Ground Pressure

LC no blade 800 mm shoe 5.22 psi (0.36 Bar)
Reg. w/ blade 600 mm shoe 5.8 psi (0.40 Bar)

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 2.1 - 3.5 mph (3.4 - 5.6 km/h)
Drawbar Pull 26,078 lbf (116 kN)
Gradeability 70% (35°)

Attachment

Boom 15' 2" (4.63 m)

Available Arms

Digging Force

• 8' 2" (2.50 m) 13,940 lbf (62 kN)
with Auto Power Boost 14,840 lbf (66 kN)

• 9' 11" (3.01 m) 12,590 lbf (56 kN)
with Auto Power Boost 13,490 lbf (60 kN)

• 6' 11" (2.11 m) 15,740 lbf (70 kN)
with Auto Power Boost 16,640 lbf (74 kN)

Bucket Digging Force 20,230 lbf (90 kN)
with Auto Power Boost 21,360 lbf (95 kN)

Lubricant and Coolant Capacity

Fuel Tank 52.8 Gallons (200.0 Liters)
Hydraulic System 41.7 Gallons (158.0 Liters)
Hydraulic Tank 19.8 Gallons (75.0 Liters)
Final Drive (per side) 0.55 Gallons (2.1 Liters)
Swing Drive 0.79 Gallons (3.0 Liters)
Engine Oil 4.5 Gallons (17.0 Liters)
Coolant System 4.0 Gallons (15.3 Liters)

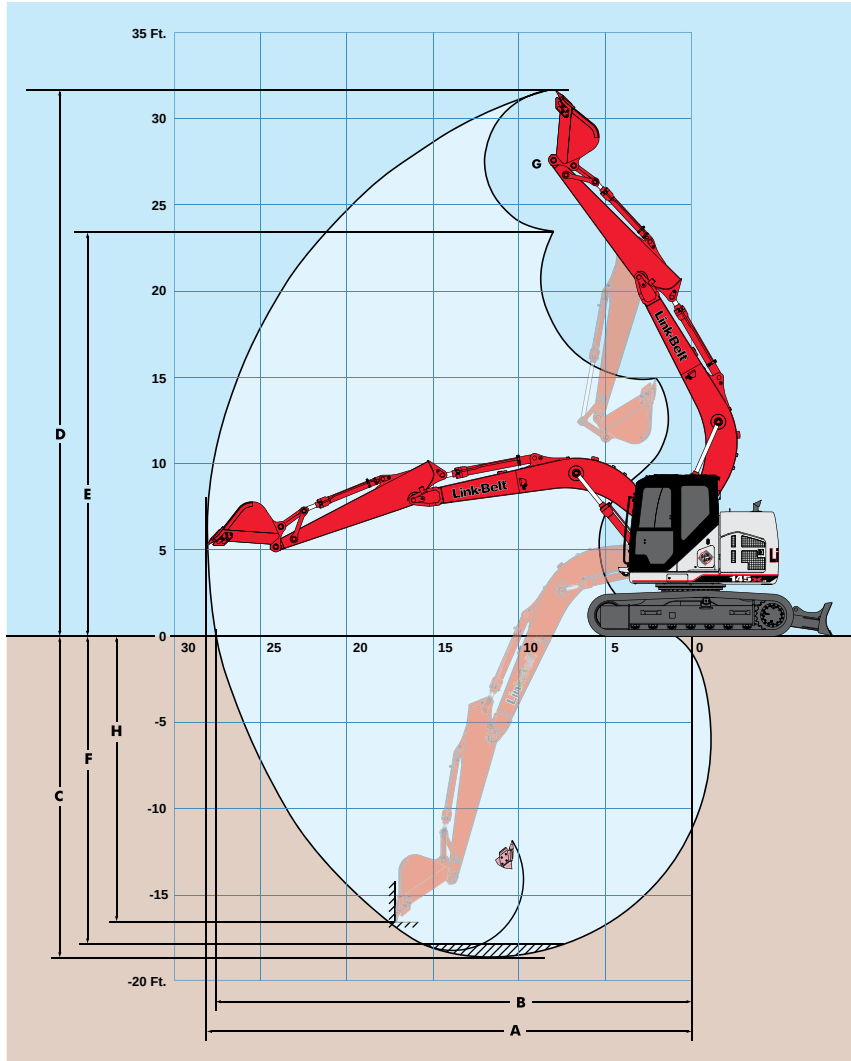
Operating Weight

Working weight with LC, no blade, 23.6" (600 mm) shoes, 15' 2" (4.63 m) boom, 8' 2" (2.50 m) arm, 880 lb. (400 kg) bucket, 8,160 lbs (3 700 kg) counterweight 31,800 lbs. (14 400 kg)

Working weight with regular undercarriage, dozer blade, 23.6" (600 mm) shoes, 15' 2" (4.63 m) boom, 8' 2" (2.50 m) arm, 880 lb. (400 kg) bucket, 8,160 lbs (3 700 kg) counterweight 33,200 lbs. (15 000 kg)

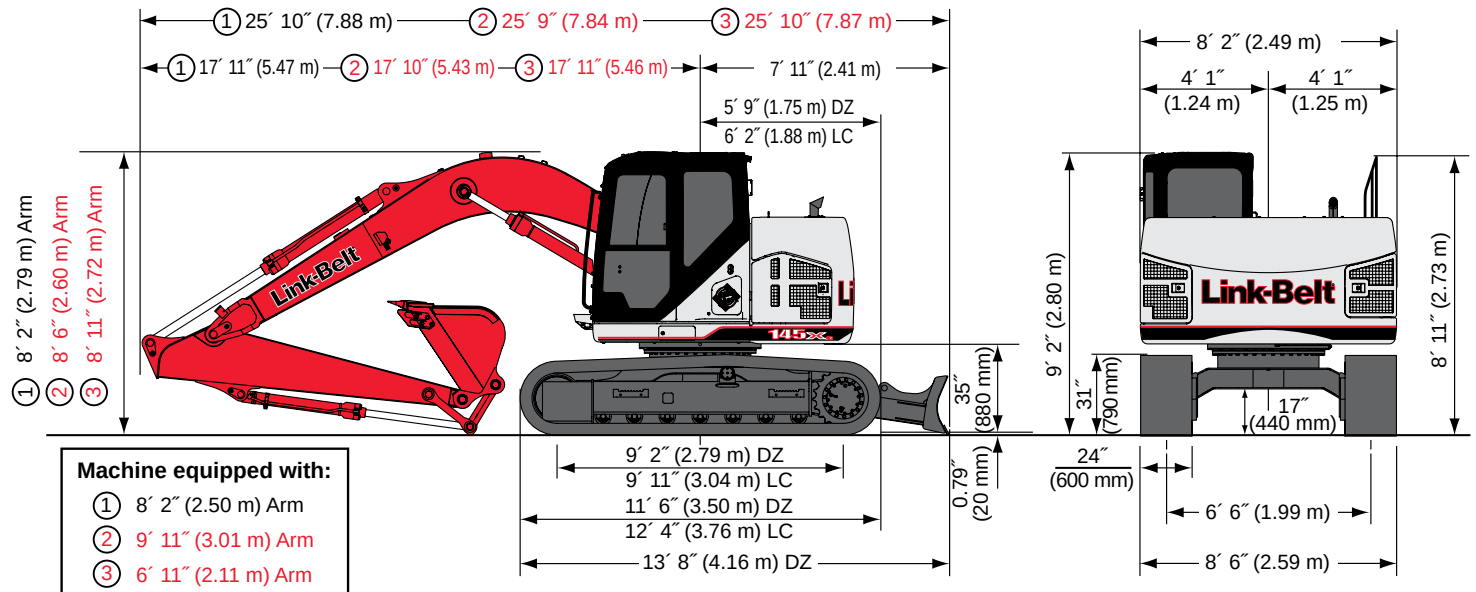
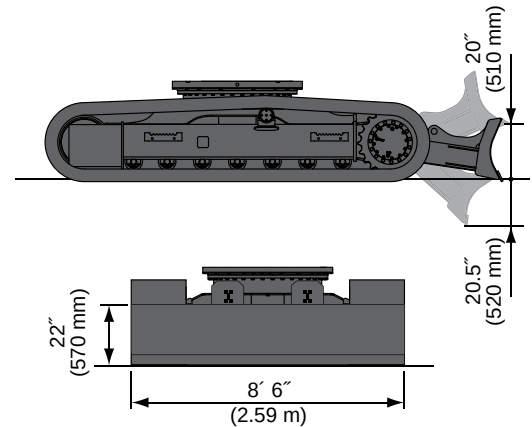
145X₃ Specifications

Working Ranges



Machine Equipped with 15' 2" (4.63 m) Boom	Arm 8' 2" (2.50 m)	Arm 9' 11" (3.01 m)	Arm 6' 11" (2.11 m)
A. Maximum reach	27' 2" (8.29 m)	28' 8" (8.74 m)	26' 1" (7.94 m)
B. Maximum reach @ ground level	26' 8" (8.14 m)	28' 3" (8.60 m)	25' 6" (7.78 m)
C. Maximum dig depth	18' 1" (5.51 m)	19' 9" (6.01 m)	16' 9" (5.11 m)
D. Maximum dig height	30' 8" (9.34 m)	31' 9" (9.69 m)	29' 9" (9.06 m)
E. Maximum dump height	22' 9" (6.94 m)	23' 11" (7.29 m)	21' 10" (6.66 m)
F. Digging depth 8' (2.44 m) level bottom	17' 4" (5.29 m)	19' 2" (5.83 m)	16' 0" (4.87 m)
G. Bucket rotation	178°	178°	178°
H. Maximum vertical wall depth	16' 1" (4.90 m)	17' 4" (5.28 m)	15' 0" (4.56 m)

Blade Dimensions



145X₃ Specifications

Lifting Capacities

Radius of Load - Regular Undercarriage with Blade Down													
8' 2" (2.50 m) Arm with 15' 2" (4.63 m) Boom and 900 lb. (400 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)		Cap at Max. Reach	
													
		End	Side	End	Side	End	Side	End	Side	End	Side	End	Side
+25' 0"	lbs					4,850*	4,850*					2,950*	2,950*
	kg					2 380*	2 380*					1 310*	1 310*
+20' 0"	lbs					6,350*	6,350*	4,800*	4,800*			2,500*	2,500*
	kg					2 980*	2 980*	2 340*	2 340*			1 120*	1 120*
+15' 0"	lbs					8,050*	8,050*	6,400*	5,350			2,350*	2,350*
	kg					3 720*	3 720*	2 960*	2 500			1 060*	1 060*
+10' 0"	lbs			15,700*	15,700*	11,450*	8,250	8,350*	5,150	4,500*	3,500	2,350*	2,350*
	kg			7 280*	7 280*	5 290*	3 840	3 880*	2 400	2 330*	1 620	1 060*	1 060*
+5' 0"	lbs			21,400*	14,600	13,750*	7,700	10,300*	4,900	5,500*	3,350	2,500*	2,500*
	kg			9 840*	6 790	6 360*	3 580	4 760*	2 280	2 790*	1 570	1 120*	1 120*
Ground	lbs	6,250*	6,250*	19,250*	13,600	14,650*	7,250	10,600*	4,700	4,450*	3,300	2,800*	2,800*
	kg	2 790*	2 790*	8 350*	6 340	6 770*	3 380	4 900*	2 180	2 500*	1 530	1 260*	1 260*
-5' 0"	lbs	11,500*	11,500*	21,400*	13,500	14,200*	7,100	10,050*	4,600			3,350*	3,350*
	kg	5 180*	5 180*	9 640*	6 290	6 560*	3 290	4 670*	2 130			1 520*	1 520*
-10' 0"	lbs	18,300*	18,300*	17,300*	13,700	11,800*	7,200	6,800*	4,700			4,650*	4,550
	kg	8 130*	8 130*	8 020*	6 390	5 500*	3 340	3 540*	2 190			2 080*	2 040
-15' 0"	lbs			9,400*	9,400*	5,000*	5,000*					4,750*	4,750*
	kg			4 550*	4 550*	2 690*	2 690*					2 230*	2 230*

Radius of Load - Regular Undercarriage with Blade Down													
9' 11" (3.01 m) Arm with 15' 2" (4.63 m) Boom and 750 lb. (340 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)		Cap at Max. Reach	
													
		End	Side	End	Side	End	Side	End	Side	End	Side	End	Side
+25' 0"	lbs					5,200*	5,200*					2,900*	2,900*
	(7.5 m) kg					2 360*	2 360*					1 290*	1 290*
+20' 0"	lbs					6,050*	6,050*	5,000*	5,000*			2,500*	2,500*
	(6.0 m) kg					2 770*	2 770*	2 310*	2 310*			1 130*	1 130*
+15' 0"	lbs					6,800*	6,800*	5,850*	5,500	4,050*	3,650	2,400*	2,400*
	(4.5 m) kg					3 100*	3 100*	2 750*	2 560	2 020*	1 710	1 080*	1 080*
+10' 0"	lbs			9,950*	9,950*	9,250*	8,350	7,550*	5,250	5,450*	3,550	2,400*	2,400*
	(3.0 m) kg			4 680*	4 680*	4 280*	3 880	3 530*	2 450	2 590*	1 660	1 090*	1 090*
+5' 0"	lbs			19,500*	15,000	13,100*	7,850	10,000*	4,950	6,450*	3,400	2,550*	2,550*
	(1.5 m) kg			8 990*	6 980	6 050*	3 640	4 610*	2 310	3 100*	1 590	1 150*	1 150*
Ground	lbs	6,300*	6,300*	22,150*	13,700	14,500*	7,300	10,550*	4,700	6,750*	3,300	2,800*	2,800*
	Line kg	2 820*	2 820*	9 530*	6 370	6 690*	3 400	4 870*	2 190	3 320*	1 530	1 270*	1 270*
-5' 0"	lbs	10,500*	10,500*	21,400*	13,300	14,400*	7,000	10,350*	4,550	4,350*	3,250	3,350*	3,200
	(1.5 m) kg	4 710*	4 710*	9 370*	6 200	6 650*	3 260	4 780*	2 120	2 490*	1 510	1 500*	1 440
-10' 0"	lbs	15,550*	15,550*	18,900*	13,450	12,700*	7,050	8,700*	4,600			4,400*	3,900
	(3.0 m) kg	6 900*	6 900*	8 760*	6 270	5 910*	3 280	4 100*	2 140			1 970*	1 750
-15' 0"	lbs	19,050*	19,050*	12,450*	12,450*	8,150*	7,200					5,200*	5,200*
	(4.5 m) kg	9 100*	9 100*	5 910*	5 910*	3 940*	3 350					2 400*	2 400*

Radius of Load - Regular Undercarriage with Blade Down													
6' 11" (2.11 m) Arm with 15' 2" (4.63 m) Boom and 900 b. (410 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)		 Cap at Max. Reach	
		 End	 Side	 End	 Side	 End	 Side	 End	 Side	 End	 Side	 End	 Side
+25' 0" (7.5 m)	lbs											3,650*	3,650*
	kg											1 620*	1 620*
+20' 0" (6.0 m)	lbs					6,900*	6,900*	3,800*	3,800*			3,000*	3,000*
	kg					3 220*	3 220*	2 190*	2 190*			1 350*	1 350*
+15' 0" (4.5 m)	lbs			10,000*	10,000*	9,450*	8,500	7,150*	5,250			2,800*	2,800*
	kg			4 610*	4 610*	4 400*	3 940	3 350*	2 440			1 270*	1 270*
+10' 0" (3.0 m)	lbs			17,450*	15,800	12,050*	8,050	9,500*	5,050			2,800*	2,800*
	kg			8 060*	7 330	5 570*	3 750	4 410*	2 340			1 270*	1 270*
+5' 0" (1.5 m)	lbs			21,600*	14,150	14,100*	7,550	10,450*	4,800	3,400*	3,300	2,950*	2,950*
	kg			10 010*	6 570	6 520*	3 500	4 810*	2 230	2 180*	1 540	1 330*	1 330*
Ground Line	lbs			17,600*	13,350	14,600*	7,150	10,500*	4,600			3,300*	3,300*
	kg			7 640*	6 210	6 730*	3 310	4 860*	2 140			1 490*	1 490*
-5' 0" (1.5 m)	lbs	12,450*	12,450*	20,300*	13,450	13,750*	7,050	9,550*	4,550			4,000*	3,850
	kg	5 610*	5 610*	9 370*	6 280	6 350*	3 270	4 460*	2 120			1 810*	1 750
-10' 0" (3.0 m)	lbs	18,750*	18,750*	15,450*	13,650*	10,650*	7,200					5,700*	5,100
	kg	8 340*	8 340*	7 180*	6 350	4 990*	3 350					2 520*	2 280

145^{x3} Specifications

Lifting Capacities

Radius of Load - Regular Undercarriage with Blade Up													
8' 2" (2.50 m) Arm with 15' 2" (4.63 m) Boom and 900 lb. (400 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)		Cap at Max. Reach	
		 End	 Side	 End	 Side	 End	 Side	 End	 Side	 End	 Side	 End	 Side
+25' 0"	lbs					4,850*	4,850*					2,950*	2,950*
	(7.5 m) kg					2 380*	2 380*					1 310*	1 310*
+20' 0"	lbs					6,350*	6,350*	4,800*	4,800*			2,500*	2,500*
	(6.0 m) kg					2 980*	2 980*	2 340*	2 340*			1 120*	1 120*
+15' 0"	lbs					8,050*	8,050*	6,400*	5,100			2,350*	2,350*
	(4.5 m) kg					3 720*	3 720*	2 960*	2 370			1 060*	1 060*
+10' 0"	lbs			15,700*	15,000	10,550	7,850	6,550	4,900	4,450	3,300	2,350*	2,350*
	(3.0 m) kg			7 280*	6 990	4 900	3 640	3 050	2 270	2 080	1 530	1 060*	1 060*
+5' 0"	lbs			20,200	13,700	10,000	7,300	6,300	4,650	4,350	3,200	2,500*	2,500*
	(1.5 m) kg			9 440	6 370	4 660	3 390	2 930	2 160	2 030	1 480	1 120*	1 120*
Ground Line	lbs	6,250*	6,250*	18,900	12,750	9,550	6,850	6,050	4,400	4,250	3,100	2,800*	2,800*
	kg	2 790*	2 790*	8 350*	5 930	4 430	3 180	2 820	2 060	1 980	1 440	1 260*	1 260*
-5' 0"	lbs	11,500*	11,500*	18,900	12,650	9,350	6,650	5,950	4,350			3,350*	3,350
	(1.5 m) kg	5 180*	5 180*	8 740	5 880	4 340	3 100	2 770	2 010			1 520*	1 520*
-10' 0"	lbs	18,300*	18,300*	17,300*	12,850	9,450	6,800	6,050	4,450			4,650*	4,300
	(3.0 m) kg	8 130*	8 130*	8 020*	5 980	4 380	3 150	2 820	2 070			2 080*	1 920
-15' 0"	lbs			9,400*	9,400*	5,000*	5,000*					4,750*	4,750*
	(4.5 m) ka			4 550*	4 550*	2 690*	2 690*					2 230*	2 230*

Radius of Load - Regular Undercarriage with Blade Up													
9' 11" (3.01 m) Arm with 15' 2" (4.63 m) Boom and 750 b. (340 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)		Cap at Max. Reach	
		 End	 Side	 End	 Side	 End	 Side	 End	 Side	 End	 Side	 End	 Side
+25' 0"	lbs					5,200*	5,200*					2,900*	2,900*
	(7.5 m) kg					2 360*	2 360*					1 290*	1 290*
+20' 0"	lbs					6,050*	6,050*	5,000*	5,000*			2,500*	2,500*
	(6.0 m) kg					2 770*	2 770*	2 310*	2 310*			1 130*	1 130*
+15' 0"	lbs					6,800*	6,800*	5,850*	5,250	4,050*	3,450	2,400*	2,400*
	(4.5 m) kg					3 100*	3 100*	2 750*	2 440	2 020*	1 620	1 080*	1 080*
+10' 0"	lbs			9,950*	9,950*	9,250*	7,950	6,700	5,000	4,550	3,350	2,400*	2,400*
	(3.0 m) kg			4 680*	4 680*	4 280*	3 700	3 110	2 320	2 120	1 570	1 090*	1 090*
+5' 0"	lbs			19,500*	14,100	10,150	7,400	6,350	4,700	4,400	3,200	2,550*	2,550*
	(1.5 m) kg			8 990*	6 550	4 730	3 450	2 960	2 190	2 050	1 500	1 150*	1 150*
Ground Line	lbs	6,300*	6,300*	19,150	12,800	9,600	6,900	6,100	4,450	4,250	3,100	2,800*	2,700
	kg	2 820*	2 820*	8 920	5 960	4 460	3 200	2 830	2 070	1 990	1 440	1 270*	1 230
-5' 0"	lbs	10,500*	10,500*	18,600	12,450	9,250	6,600	5,950	4,300	4,250	3,050	3,350*	3,000
	(1.5 m) kg	4 710*	4 710*	8 660	5 800	4 310	3 070	2 760	2 000	1 960	1 420	1 500*	1 350
-10' 0"	lbs	15,550*	15,550*	18,600	12,600	9,300	6,650	6,000	4,350			4,400*	3,650
	(3.0 m) kg	6 900*	6 900*	8 690	5 860	4 320	3 090	2 780	2 020			1 970*	1 650
-15' 0"	lbs	19,050*	19,050*	12,450*	12,450*	8,150*	6,800					5,200*	5,200*
	(4.5 m) ka	9 100*	9 100*	5 910*	5 870	3 940*	3 170					2 400*	2 390

Radius of Load - Regular Undercarriage with Blade Up													
6' 11" (2.11 m) Arm with 15' 2" (4.63 m) Boom and 900 lb. (410 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)		Cap at Max. Reach		
	 End	 Side	 End	 Side	 End	 Side	 End	 Side	 End	 Side	 End	 Side	
+25' 0" (7.5 m)	lbs										3,650*	3,650*	
	kg										1 620*	1 620*	
+20' 0" (6.0 m)	lbs					6,900*	6,900*	3,800*	3,800*			3,000*	3,000*
	kg					3 220*	3 220*	2 190*	2 190*			1 350*	1 350*
+15' 0" (4.5 m)	lbs			10,000*	10,000*	9,450*	8,100	6,650	4,950			2,800*	2,800*
	kg			4 610*	4 610*	4 400*	3 760	3 100	2 310			1 270*	1 270*
+10' 0" (3.0 m)	lbs			17,450*	14,850	10,400	7,650	6,450	4,750			2,800*	2,800*
	kg			8 060*	6 900	4 840	3 550	2 990	2 220			1 270*	1 270*
+5' 0" (1.5 m)	lbs			19,700	13,250	9,800	7,100	6,200	4,550	3,400*	3,100	2,950*	2,950*
	kg			9 180	6 150	4 570	3 300	2 870	2 110	1 990	1 450	1 330*	1 330*
Ground Line	lbs			17,600*	12,500	9,400	6,700	6,000	4,350			3,300*	3,200
	kg			7 640*	5 810	4 370	3 120	2 780	2 020			1 490*	1 450
-5' 0" (1.5 m)	lbs	12,450*	12,450*	18,800	12,600	9,250	6,600	5,950	4,300			4,000*	3,650
	kg	5 610*	5 610*	8 710	5 870	4 310	3 080	2 760	2 000			1 810*	1 650
-10' 0" (3.0 m)	lbs	18,750*	18,750*	15,450*	12,800	9,400	6,800					5,700*	4,800
	kg	8 340*	8 340*	7 180*	5 960	4 370	3 160					2 520*	2 150

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Lifting Capacities

Radius of Load- Long Undercarriage												
8' 2" (2.50 m) Arm with 15' 2" (4.63 m) Boom and 900 lb. (400 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)		Cap at Max. Reach	
	 End	 Side	 End	 Side	 End	 Side	 End	 Side	 End	 Side	 End	 Side
+25' 0" lbs					4,850*	4,850*					2,950*	2,950*
(7.5 m) kg					2 380*	2 380*					1 310*	1 310*
+20' 0" lbs					6,350*	6,350*	4,800*	4,800*			2,500*	2,500*
(6.0 m) kg					2 980*	2 980*	2 340*	2 310			1 120*	1 120*
+15' 0" lbs					8,050*	7,800*	6,400*	4,900			2,350*	2,350*
(4.5 m) kg					3 720*	3 630	2 960*	2 270			1 060*	1 060*
+10' 0" lbs			15,700*	14,500	11,450*	7,500	7,450	4,650	4,500*	3,100	2,350*	2,350*
(3.0 m) kg			7 280*	6 750	5 290*	3 490	3 470	2 170	2 330*	1 460	1 060*	1 060*
+5' 0" lbs			21,400*	13,150	11,500	7,000	7,200	4,400	5,000	3,000	2,500*	2,500*
(1.5 m) kg			9 840*	6 110	5 360	3 240	3 340	2 060	2 320	1 410	1 120*	1 120*
Ground Line lbs	6,250*	6,250*	19,250*	12,200	11,000	6,550	6,950	4,200	4,450*	2,950	2,800*	2,800*
kg	2 790*	2 790*	8 350*	5 670	5 130	3 040	3 230	1 960	2 280	1 360	1 260*	1 260*
-5' 0" lbs	11,500*	11,500*	21,400*	12,100	10,800	6,350	6,850	4,100			3,350*	3,200
(1.5 m) kg	5 180*	5 180*	9 640*	5 630	5 030	2 960	3 180	1 910			1 520*	1 440
-10' 0" lbs	18,300*	18,300*	17,300*	12,300	10,850	6,500	6,800*	4,250			4,650*	4,050
(3.0 m) kg	8 130*	8 130*	8 020*	5 730	5 050	3 010	3 220	1 970			2 080*	1 830
-15' 0" lbs			9,400*	9,400*	5,000*	5,000*					4,750*	4,750*
(4.5 m) kg			4 550*	4 550*	2 690*	2 690*					2 230*	2 230*

Radius of Load- Long Undercarriage												
9' 11" (3.01 m) Arm with 15' 2" (4.63 m) Boom and 750 lb. (340 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)		Cap at Max. Reach	
	 End	 Side	 End	 Side	 End	 Side	 End	 Side	 End	 Side	 End	 Side
+25' 0" lbs					5,200*	5,200*					2,900*	2,900*
(7.5 m) kg					2 360*	2 360*					1 290*	1 290*
+20' 0" lbs					6,050*	6,050*	5,000*	5,000*			2,500*	2,500*
(6.0 m) kg					2 770*	2 770*	2 310*	2 310*			1 130*	1 130*
+15' 0" lbs					6,800*	6,800*	5,850*	5,000	4,050*	3,300	2,400*	2,400*
(4.5 m) kg					3 100*	3 100*	2 750*	2 340	2 020*	1 540	1 080*	1 080*
+10' 0" lbs			9,950*	9,950*	9,250*	7,700	7,450	4,800	5,200*	3,200	2,400*	2,400*
(3.0 m) kg			4 680*	4 680*	4 280*	3 570	3 470	2 230	2 420	1 490	1 090*	1 090*
+5' 0" lbs			19,500*	13,550	11,700	7,100	7,250	4,500	5,050	3,050	2,550*	2,500
(1.5 m) kg			8 990*	6 300	5 440	3 300	3 380	2 090	2 340	1 430	1 150*	1 130
Ground Line lbs	6,300*	6,300*	22,150*	12,250	11,050	6,600	7,000	4,250	4,900	2,950	2,800*	2,550
kg	2 820*	2 820*	9 530*	5 710	5 150	3 060	3 250	1 970	2 280	1 370	1 270*	1 160
-5' 0" lbs	10,500*	10,500*	21,400*	11,900	10,750	6,300	6,800	4,100	4,350*	2,900	3,350*	2,850
(1.5 m) kg	4 710*	4 710*	9 370*	5 550	5 000	2 930	3 170	1 900	2 260	1 350	1 500*	1 280
-10' 0" lbs	15,550*	15,550*	18,900*	12,050	10,750	6,350	6,900	4,150			4,400*	3,500
(3.0 m) kg	6 900*	6 900*	8 760*	5 610	5 010	2 950	3 190	1 920			1 970*	1 570
-15' 0" lbs	19,050*	19,050*	12,450*	12,150	8,150*	6,550					5,200*	5,150
(4.5 m) kg	9 100*	9 100*	5 910*	5 660	3 940*	3 040					2 400*	2 280

Radius of Load- Long Undercarriage												
6' 11" (2.11 m) Arm with 15' 2" (4.63 m) Boom and 900 lb. (410 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)		Cap at Max. Reach	
	 End	 Side	 End	 Side	 End	 Side	 End	 Side	 End	 Side	 End	 Side
+25' 0" lbs											3,650*	3,650*
(7.5 m) kg											1 620*	1 620*
+20' 0" lbs					6,900*	6,900*	3,800*	3,800*			3,000*	3,000*
(6.0 m) kg					3 220*	3 220*	2 190*	2 190*			1 350*	1 350*
+15' 0" lbs			10,000*	10,000*	9,450*	7,800	7,150*	4,750			2,800*	2,800*
(4.5 m) kg			4 610*	4 610*	4 400*	3 620	3 350*	2 210			1 270*	1 270*
+10' 0" lbs			17,450*	14,300	11,850*	7,350	7,350	4,550			2,800*	2,800*
(3.0 m) kg			8 060*	6 650	5 510	3 400	3 410	2 120			1 270*	1 270*
+5' 0" lbs			21,600*	12,700	11,300	6,800	7,050	4,300	3,400*	2,950	2,950*	2,900
(1.5 m) kg			10 010*	5 900	5 270	3 160	3 290	2 010	2 180*	1 370	1 330*	1 320
Ground Line lbs			17,600*	11,950	10,850	6,400	6,850	4,150			3,300*	3,000
kg			7 640*	5 560	5 060	2 980	3 190	1 920			1 490*	1 370
-5' 0" lbs	12,450*	12,450*	20,300*	12,050	10,750	6,300	6,800	4,100			4,000*	3,450
(1.5 m) kg	5 610*	5 610*	9 370*	5 620	5 000	2 930	3 170	1 900			1 810*	1 560
-10' 0" lbs	18,750*	18,750*	15,450*	12,300	10,650*	6,500					5,700*	4,550
(3.0 m) kg	8 340*	8 340*	7 180*	5 730*	4 990*	3 020					2 520*	2 050

145X₃ Specifications

Standard and Optional Equipment

CAB		ENGINE		AUXILIARY HYDRAULIC OPTIONS		UPPERSTRUCTURE	
12V Power Outlet.....	✓	Sun Visor.....	•	Auxiliary Valve.....	✓	Belly Pans.....	✓
24V Lighter.....	✓	Travel Alarm with Cancel Switch.....	✓	Boom Regeneration.....	✓	Center Cover (Over Main CV).....	✓
AM/FM Sound System.....	✓	Trip Meter - Digital.....	✓	Boom Speed Assistance - 2 Pump Flow.....	✓	Fuel Tank Belly Pan.....	✓
Anti-Theft Device.....	✓	Vandal Cover (front window).....	•	Bucket Curl Assist.....	✓	Hand Rail - RH Access.....	✓
Ashtray.....	✓	Wiper & Washer.....	✓	Control Levers Pre-Wired for Auxiliary.....	✓	Lifting Eyes for Counterweight.....	✓
Auxiliary Switches on Control Lever.....	✓	Wiper Switch on RH Joystick.....	✓	Control Pattern Changer (2 way).....	✓	Lockable Fuel Cap and Service Doors.....	✓
Cab Exterior Light Harness.....	✓	ENGINE		Fire Wall.....	✓	Rubber Bumper Guards.....	•
Cab Filter - External.....	✓	Air Filter - Double Element.....	✓	Free Swing.....	✓	Tool Box - Lockable.....	✓
Cab Handrails.....	✓	Air Filter Restriction Indicator.....	✓	Holding Valve - Arm.....	✓	Turntable Tub.....	✓
Cab Interior Light.....	✓	Auto Warm-Up System.....	✓	Holding Valve - Boom.....	✓	Work Lights - Boom and Tool Box.....	✓
Cab Lights.....	•	Auto-Idle.....	✓	Hose Burst Check Valve.....	✓		
Cab Iso-Mounts.....	✓	Auto-Idle Engine Shutdown.....	✓	Hydraulic Filter Restriction Indicator.....	✓		
Clear Roof Window.....	✓	CEGR - Cooled Exhaust Gas.....	✓	Long Life Hydraulic Oil - 5,000 Hour.....	✓		
Climate Control A/C and Heater.....	✓	Recirculation.....	✓	Neutral Pump De-stroke.....	✓		
Cup Holder.....	✓	Cooling Fan.....	✓	Oil Cooler.....	✓		
Defroster.....	✓	Diesel Oxidation Catalyst (DOC).....	✓	Power Boost.....	✓		
Digital Clock.....	✓	Diesel Particulate Filter (DPF).....	✓	Pressure Reading on Monitor.....	✓		
ECO Gauge.....	✓	Drain for Fuel Tank.....	✓	Pump Stand-By Pressure.....	✓		
Emergency Exit and Hammer.....	✓	Dual Remote Fuel Filters with Water Separation.....	✓	Straight Travel Circuit.....	✓		
Face Vent.....	✓	EGR Coolers.....	✓	AUXILIARY HYDRAULIC OPTIONS			
Floor Mat.....	✓	Emergency Engine Stop.....	✓	Single-Acting Auxiliary with Switch Activation.....	•	8' 2" (2.50 m) Arm.....	•
FOPS Head Guard (Level 2).....	•	Engine Idle System.....	✓	Single-Acting Auxiliary with Pedal Activation.....	•	9' 11" (3.01 m) Arm.....	•
Front Guard (mesh).....	•	Remote Engine Oil Drain.....	✓	Thumb Auxiliary with Switch Activation.....	•	6' 11" (2.11 m) Arm.....	•
Front Guard (OPG 1,2).....	•	Engine Protection Feature.....	✓	Multi-Function Auxiliary with Switch Activation.....	•	15' 2" (4.63 m) Main Boom Section.....	•
Front Window One-Touch Lock.....	✓	Fan Housing.....	✓	Secondary Auxiliary with Switch Activation.....	•	Attachment Reinforcement Plate (boom+arm).....	•
Gate Lock Hydraulic Activation.....	✓	Fuel Filter Restriction Indicator.....	✓	Combination Auxiliary with Switch Activation.....	•	Auxiliary Pipe Brackets.....	✓
Horn.....	✓	Fuel Management System.....	✓	Combination Auxiliary with in-cab pressure setting control.....	•	Boom Work Light.....	✓
Hot & Cool Box.....	✓	Fuel Shut-Off Valve.....	✓			Bucket Anti-Clatter Device.....	✓
Hour Meter - Digital.....	✓	Fuel Usage Monitor.....	✓			Chrome pins.....	✓
KAB 815 Suspension Seat.....	✓	Glow Plug Pre-Heat.....	✓			Easy Maintenance System.....	✓
KAB 855 Air-Suspension.....	•	Idle-Start.....	✓			HD Bucket Link.....	•
LED Color Monitor.....	✓	Intercooler.....	✓			Quick Couplers.....	•
Magazine Rack.....	✓	Neutral Start.....	✓			Remote Lube Bank.....	✓
Maintenance Interval Reminders.....	✓	One-Touch Idle.....	✓			Teardrop pin retention keepers.....	✓
MP3 Auxiliary Input Jack.....	✓	Passive Emissions-Regeneration.....	✓			Thumbs.....	•
On-Board Diagnostic System.....	✓	Radiator / Oil Cooler Protective Screen.....	✓				
One-Piece Right Window.....	✓	Regeneration Gauge on Monitor.....	✓				
Radio Mute Switch.....	✓	Remote Oil Filter.....	✓				
Rain Deflector.....	•	VGT Turbocharger.....	✓				
Rear View Camera.....	✓	HYDRAULICS					
Rear View Mirrors.....	✓	Arm Regeneration.....	✓				
Roof Sun Shade.....	✓	Arm Speed Assistance - 2 Pump Flow.....	✓				
ROPS Certified.....	✓	Attachment Cushion Valve.....	✓				
Safety Glass Windows.....	✓	Auto Swing Priority.....	✓				
Seat Recline.....	✓	Auxiliary Flow Control.....	•				
Selectable Monitor Languages.....	✓	Auxiliary Tool Settings - Memory.....	✓				
Side View Camera.....	•						
Small Storage.....	✓						

Bucket Sizes

Bucket Type	SAE Heaped Capacity		Width Outside Lip		Bucket Weight		Number of Teeth	Long Undercarriage			with Blade		
								Arm Length			Arm Length		
	(yd³)	(m³)	(in)	(mm)	(lbs)	(kg)		8' 2"	9' 11"	6' 11"	8' 2"	9' 11"	6' 11"
STDP Standard duty plate	0.50	0.38	24	610	791	359	4	H	H	H	H	H	H
	0.66	0.50	30	762	889	403	4	H	M	H	H	M	H
	0.82	0.63	36	914	1007	457	5	M	L	M	M	L	M
	0.98	0.75	42	1067	1110	503	6	L	N/A	L	L	L	L
HDP Heavy duty plate	0.50	0.38	24	610	1064	483	4	H	H	H	H	H	H
	0.65	0.50	30	762	1183	537	4	H	M	H	H	M	H
	0.81	0.62	36	914	1331	604	5	L	L	M	M	L	M
	0.97	0.74	42	1067	1450	658	5	L	N/A	L	L	N/A	L
POWER	0.42	0.32	24	610	1225	556	4	H	H	H	H	H	H
	0.55	0.42	30	762	1314	596	4	H	M	H	H	H	H
	0.68	0.52	36	914	1431	649	5	M	L	M	M	L	H
DITCH	0.86	0.66	60	1524	970	440	0	L	L	M	M	L	M
	0.96	0.73	66	1676	1040	472	0	L	N/A	L	L	L	M

STDP - Standard duty plate
HDP - Heavy duty plate
XDP - Extreme duty plate
POWER - HDP for use with ESCO multi-pin grabber only

Approval Code For Arm/Bucket Combinations

H..... Heavy material
(up to 3,370 lbs./yd³)
M..... Medium material
(up to 2,700 lbs./yd³)
L..... Light material
(up to 2,020 lbs./yd³)
N/A..... Not applicable

Notes: Excavator lifting capacities

- Lifting capacities shown should not be exceeded. Weight of all lifting accessories must be deducted from the above lifting capacities.
- Lifting capacities are based on machine standing on firm, uniform supporting surface. User must make allowances for job conditions such as soft or uneven ground.
- Lifting capacities shown do not exceed 75% of minimum tipping loads or 87% of hydraulic capacities. Capacities marked with an asterisk (*) are limited by hydraulic capacities.
- Least stable position is over the side.
- Operator should be fully acquainted with the Operator's Manual & Operating Safety Booklet, furnished by LBX before operating the machine.
- Capacities apply only to the machine as originally manufactured and normally equipped by LBX Company, LLC.
- Lift capacity ratings are based on SAE J1097, "Earthmoving Machinery - Hydraulic Excavators - Lift Capacity."

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