

Link-Belt
EXCAVATORS • FORESTRY
DEMOLITION • MATERIAL HANDLING

145x₃

SPECIFICATIONS

SAE Net Horsepower: 100 HP (75 kW)
Operating Weight: 33,200 lbs. (15 000 kg)
Digging Depth: 18 ft. 1 in. (5.51 m)



Cab

The Link-Belt X3 cab is the strongest and roomiest LBX has ever offered. The X3 cab is ROPS and FOPS Level 1 certified and is designed to be strong and safe without sacrificing operator comfort. These improvements leave plenty of room to rest work boots on the two foot rests on either side of the travel pedals.

Roomy

- 8% larger than X2 series cab
- 6% more floor space

Strong

- ROPS and FOPS Level 1 certified

Comfortable

- Fully-adjustable KAB seat in the 145 X3 and 235 X3, forward/backward, up/down
- Seat slides independently of console
- Adjustable arm rest angles, lumbar support, suspension

Optimum Visibility

- Sunroof with sunshade rated FOPS level 1
- Additional mirrors
- Standard rearview camera
- Wiper blade stores off front glass

Ergonomic Joysticks

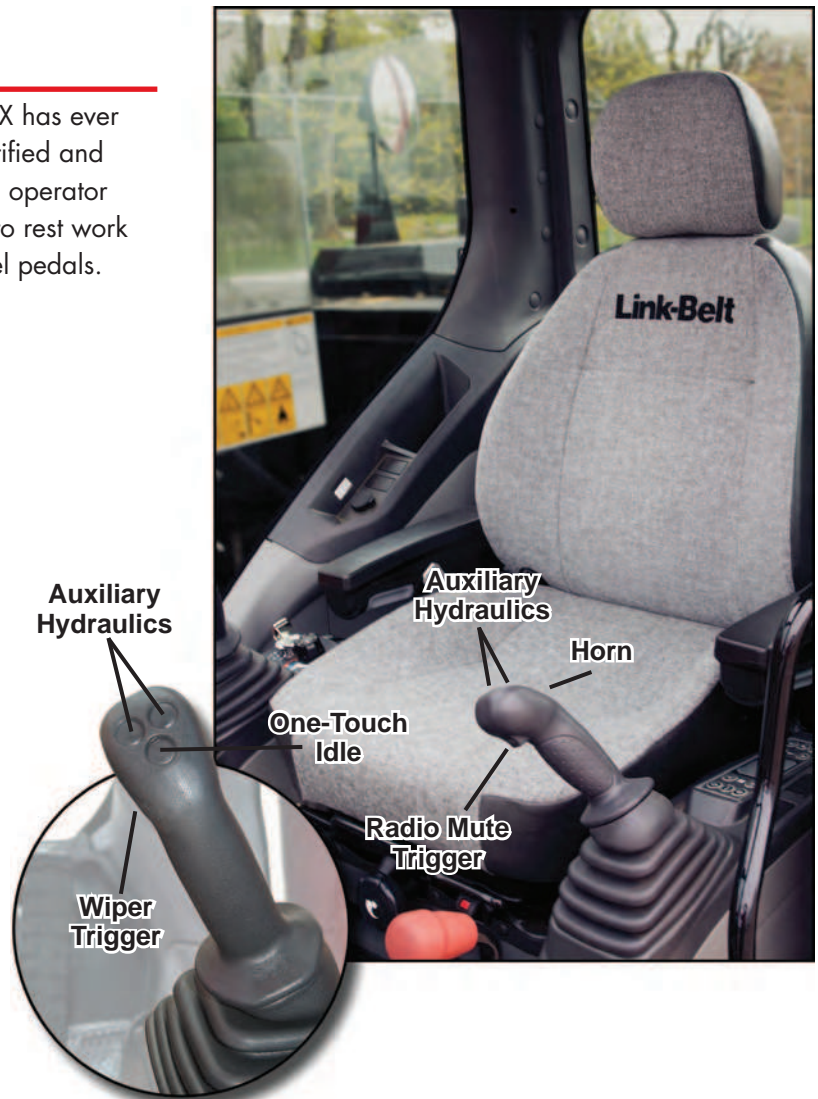
- Low-effort
- Pre-wired for auxiliary hydraulics
- Function buttons for wiper swipe, horn, radio mute and one-touch idle
- Large, easy-to-push triggers

Quiet

- Pressurized cab
- 8% stronger climate control system with 8 vents
- Auxiliary sound jack to enjoy music or podcasts

Organized

- Logically located switches and controls
- Accessible 12V outlet for cell phone charging
- Cup holder
- Handy phone storage areas
- Removable ashtray; empty space can be used as an additional cup holder



High-Definition 7" LED Monitor

The Link-Belt X3's from LBX are equipped with an all new High-Definition LED monitor. The full-color 7-inch monitor is one of the largest in the industry and rivals the resolution and quality found in luxury automobiles.

The X3's user-friendly monitor panel includes an engine-idle shutdown option that safely shuts off the engine after 3 minutes of idling, conserving fuel. Another idle feature accessible from the monitor panel is the auto-idle feature that, when selected, takes the engine speed down to an idle level, conserving fuel while waiting for that next truck to show up.



145 X3 and 235 X3 Models

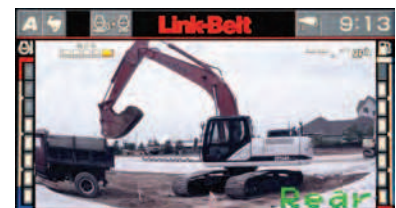
The 145 X3 and 235 X3 models use a "passive" regeneration process and the monitor clearly lets the operator know what is going on and if they need to do anything with the machine. The on-screen DPD gauge shows the level of particulate matter that the DPF is capturing and will clean it out every 8 hours by way of an Auto Regeneration. During the Auto Regeneration process, the operator does NOT have to do anything with the machine other than keep working. During a parked, or Manual Regeneration, the monitor will give the operator the appropriate instructions on what to do with the machine, making it as simple as possible.

In-Cab Control

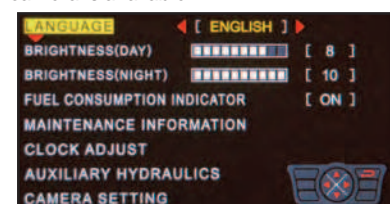
- Select and set up attachments
- Track or monitor up to 13 service interval reminders
- Engine idle shutdown, which, when selected, safely shuts off the engine after 3 minutes of idling to conserve fuel
- Adjust hydraulic flow
- 18 languages available

Monitor

- Fuel consumption gauge
- Full color display of standard rear view camera AND optional side-view camera on the same screen
- Monitor engine coolant and hydraulic oil temperatures
- Displays fuel level, travel mode, work mode and attachment mode
- System/Machine warning messages
- Work tool settings

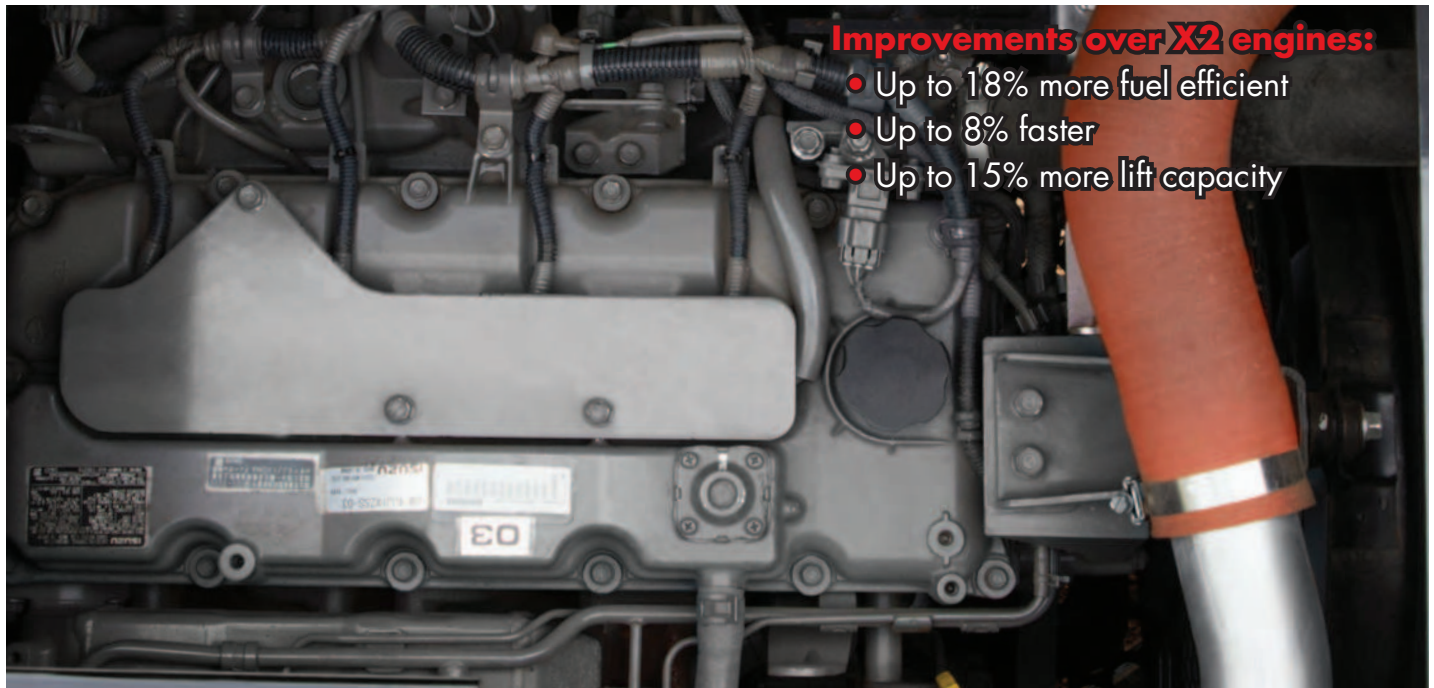


A standard rear-view camera displays a panoramic view of the worksite from the rear of the machine, an optional side-view camera is available.



From the Computer Menu, you can change the monitor language, program service reminders and change auxiliary settings for flow to name a few.

Engine



Improvements over X2 engines:

- Up to 18% more fuel efficient
- Up to 8% faster
- Up to 15% more lift capacity

The fuel-efficient, powerful, productive, quiet and long-lasting Isuzu engine LBX uses in the Link-Belt X3 series meets the EPA's Interim Tier 4 (Tier 4a) requirements by way of cooled exhaust gas recirculation (EGR) technology and a diesel particulate diffuser system (DPD) in the 145 X3 and 235 X3. The DPD consists of a diesel oxidation catalyst (DOC) and a diesel particulate filter (DPF) for "passive regeneration" of exhaust emissions. The 75 X3 and 80 X3 are Final Tier 4-certified and are not equipped with a DPF; therefore, they do not require any regeneration.

A new variable geometry turbocharger (VGT), available on the 145 X3 and 235 X3, helps optimize the combustion process and ensures consistent boost pressure during low engine rpm's. This maintains efficient machine performance and helps eliminate harmful nitrous oxides (NOx) from forming.

The X3 has three engine work modes to give the operator full control of the machine for the job at hand:



- **Speed Priority (SP mode)** is the fastest and most productive mode giving the operator peak machine performance to get the job done quickly.
- **Heavy (H mode)** is a perfect combination of fuel efficiency and productivity. It really is the best of both worlds!
- **Applied Power (A mode)** gives the operator 13 different engine rpm settings to choose from to easily fine tune the machine to the specific job at hand. This mode is perfect for heavy lifting, fine grading or leveling work, and pipeline contractors use it to safely set pipe down into the trench.



Intelligent Design

- Quiet
- Long-lasting
- One-touch idle and auto idle functions conserve fuel
- Idle start protects a cold engine from over-revving
- Auto engine warm up feature gradually increases engine speed until normal operating temperature is achieved

Hydraulics

The Link-Belt X3's from LBX are equipped with two Kawasaki variable-displacement axial-piston pumps and one Kawasaki gear pump installed in-line with the engine. This is the most efficient hydraulic pump layout – keeping engine rpm's low while producing plenty of hydraulic muscle.

The X3 uses an open center hydraulic system which refers to the open passage in the control valve that allows the hydraulic oil to return to tank when the control valve is centered. This design gives the machine a much smoother feeling when operating and also eliminates excess pressure throughout the system, which, in turn, helps to conserve fuel.

Powerful & Productive

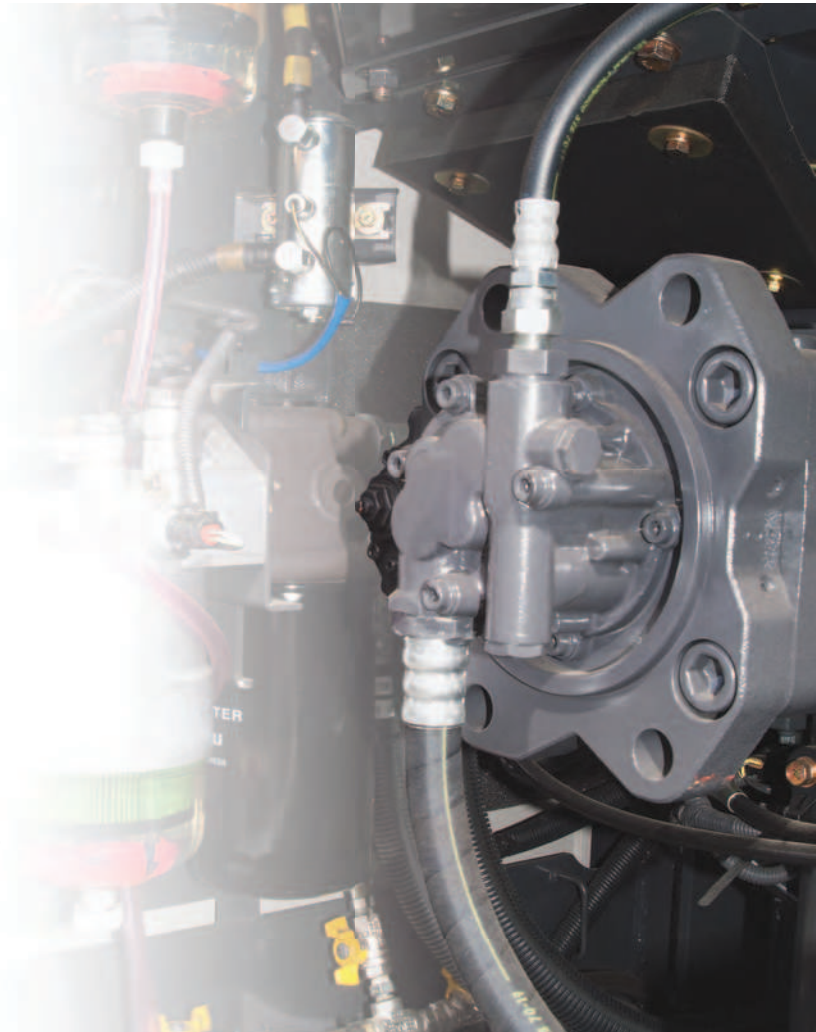
- Available on the 145 X3 and 235 X3, Auto Power Boost gives 9% more hydraulic pressure (power) for 8 seconds
- More speed through larger hydraulic lines
- Improved oil regeneration circuits

Safe

- Boom and arm holding valves
- Standard hydraulic control pattern change valve to move between ISO and SAE
- Optional "Free Swing" auto-centers the machine over the load and takes out the pendulum effect of large, long loads

Long-lasting

- Continuous filtration of 5000-hour hydraulic oil through a 6 micron, full-flow return filter
- Less wear due to reduced back pressure



Serviceability

Easy to maintain

- Ground level access to:
 - ✓ Batteries
 - ✓ Dual fuel filters with water separators
 - ✓ Engine oil filter
 - ✓ Dual element air filter
 - ✓ Cab fresh air filter
- Green drain plug and hose
- Easy-open engine hood
- Easy-access in-cab fuse box accessible while seated in cab seat
- Side-by-side oil cooler/radiator design is easy to clean
- Quick and easy access to grease all attachment pivot points
- Grease cylinder track adjusters make adjusting track tension a breeze

Maintenance reminders

- In-cab monitor will track 13 different serviceable items:
 - ✓ 5 reminders for engine items
 - ✓ 5 for hydraulic items
 - ✓ 3 other reminders

Simple

- Flexible and heat-resistant color-coded wiring harnesses
- External fuel site gauge can be viewed from ground-level to see fuel levels
- Lube and maintenance charts posted inside toolbox for readability and protection from the elements

Performance

Improvements and Optimizations

- 15% increased lift capacity over previous series
- 18% better fuel efficiency than previous series
- 8% faster cycle times
- Time will be saved in switching out the attachment tools via the in-cab monitor



Innovation at Work



Durability

LBX built the Link-Belt X3 series to last, and they come with one of the best standard warranties in the industry. We back our machines with a 1-year / 1,800 hour full machine warranty, a 2-year / 3,000 hour engine warranty, and a 3-year / 10,000 hour XtraStructure warranty that even covers the turntable bearing and tub.



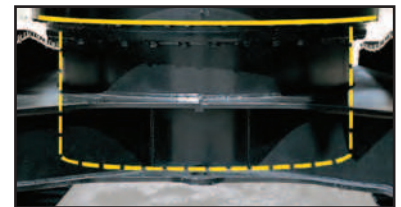
EMS (Extended Maintenance System) chrome pins and grease impregnated brass bushings with graphite inserts reduce wear-and-tear and can be found throughout the attachment. This design makes it possible to extend lube intervals to 6 months or 1,000 hours at all pivot points excluding the bucket which is monthly or 250 hours, whichever comes first.

Strong

- All booms and arms are ultrasound tested at the factory
- X-Pattern carbody made with high tensile strength steel
- Turntable bearing tub extends through the carbody and is welded on top and bottom
- Factory standard belly pan guard
- D-channel sideframes provide excellent impact resistance
- Cab is FOPS level 1 and ROPS certified
- Thicker steel plating on the attachment
- Standard HD linkage on 350 X3 and 470 X3 and on all Link-Belt X3 excavators ordered with factory hydraulic packages



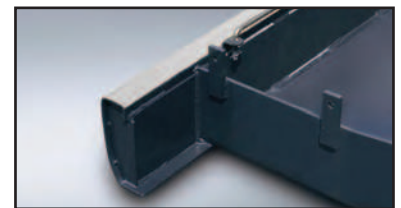
X-Pattern carbody



Turntable bearing tub

Options

- Pre-existing mounting bosses make adding additional guarding easy
- Rubber bumper guarding
- Catwalks



D-channel sideframes



Specifications

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)

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)

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)

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..... 46 per Side
 Regular undercarriage with blade.... 43 per Side

Shoe Width

LC no blade..... 23.6" (600 mm)
 Regular undercarriage w/ 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

• 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)

Digging Force

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)

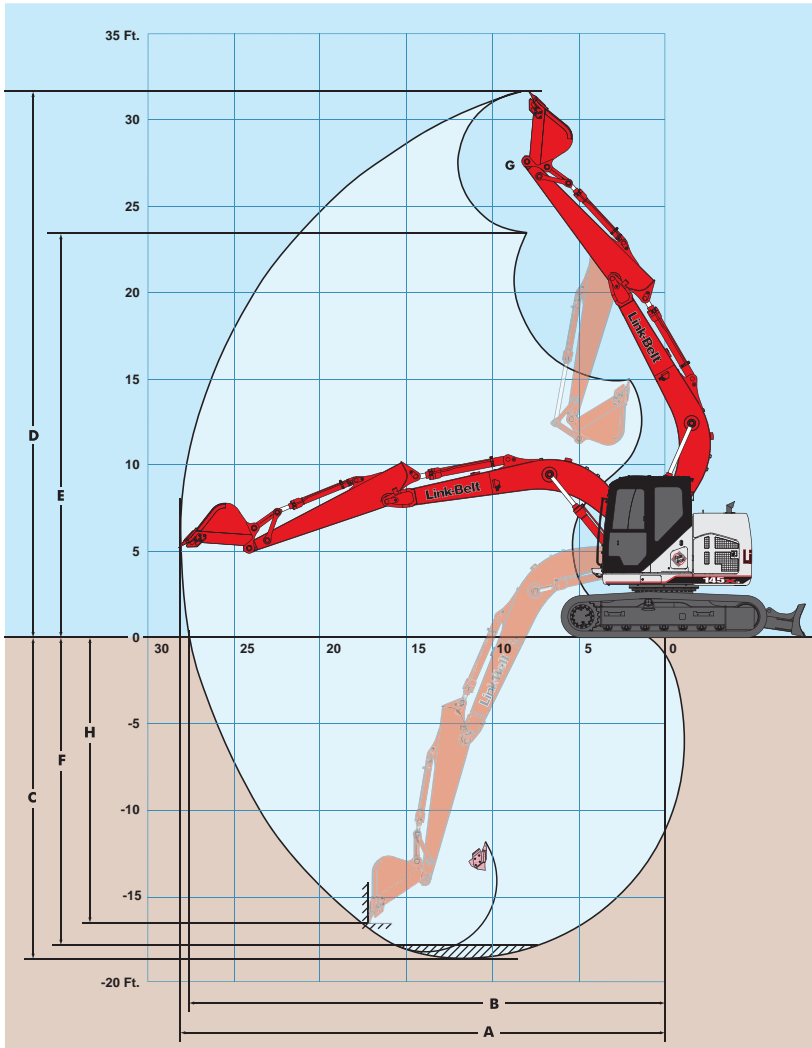
Operating Weight

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)

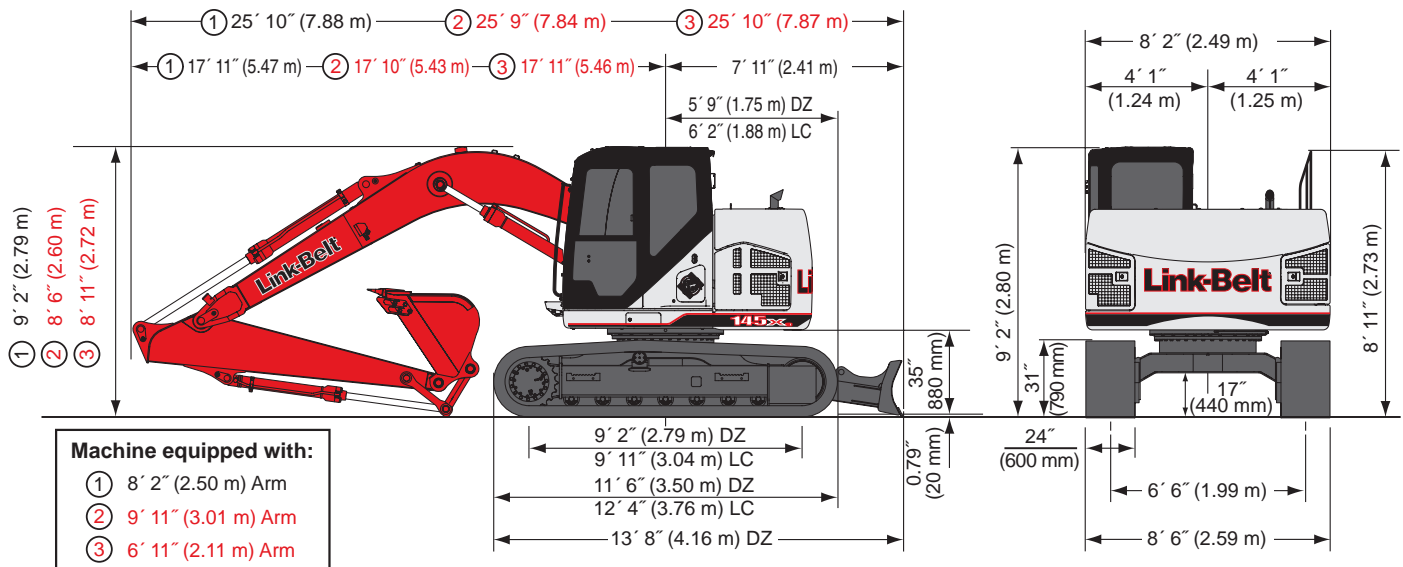
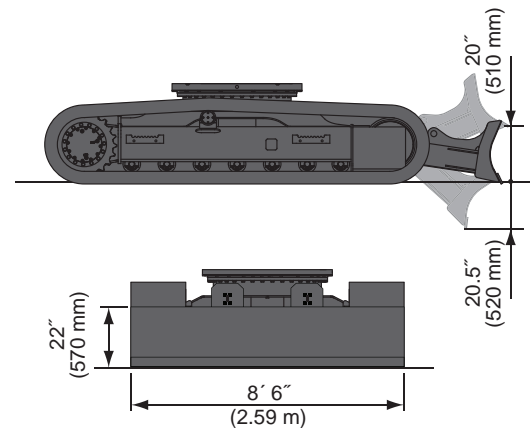
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Working Ranges



























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



























Lifting Capacities - ISO Ratings

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*
(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*	5,350			2,350*	2,350*
(4.5 m) 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*
(3.0 m) 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*
(1.5 m) 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*
Line 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*
(1.5 m) 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
(3.0 m) 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*
(4.5 m) kg			4 550*	4 550*	2 690*	2 690*					2 230*	2 230*













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 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*
Line 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) kg			4 550*	4 550*	2 690*	2 690*					2 230*	2 230*













Lifting Capacities - ISO Ratings

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 Up												
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*	5,250	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 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
Line 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) kg	9 100*	9 100*	5 910*	5 870	3 940*	3 170					2 400*	2 390













Lifting Capacities - ISO Ratings

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

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" lbs												3,650*
(7.5 m) kg												1 620*
+20' 0" lbs					6,900*	6,900*	3,800*	3,800*				3,000*
(6.0 m) kg					3 220*	3 220*	2 190*	2 190*				1 350*
+15' 0" lbs			10,000*	10,000*	9,450*	8,100	6,650	4,950				2,800*
(4.5 m) kg			4 610*	4 610*	4 400*	3 760	3 100	2 310				1 270*
+10' 0" lbs			17,450*	14,850	10,400	7,650	6,450	4,750				2,800*
(3.0 m) kg			8 060*	6 900	4 840	3 550	2 990	2 220				1 270*
+5' 0" lbs			19,700	13,250	9,800	7,100	6,200	4,550	3,400*	3,100		2,950*
(1.5 m) kg			9 180	6 150	4 570	3 300	2 870	2 110	1 990	1 450		1 330*
Ground lbs			17,600*	12,500	9,400	6,700	6,000	4,350				3,300*
Line kg			7 640*	5 810	4 370	3 120	2 780	2 020				1 490*
-5' 0" lbs	12,450*	12,450*	18,800	12,600	9,250	6,600	5,950	4,300				4,000*
(1.5 m) kg	5 610*	5 610*	8 710	5 870	4 310	3 080	2 760	2 000				1 810*
-10' 0" lbs	18,750*	18,750*	15,450*	12,800	9,400	6,800						5,700*
(3.0 m) kg	8 340*	8 340*	7 180*	5 960	4 370	3 160						2 520*

Lifting Capacities - ISO Ratings

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

Lifting Capacities - ISO Ratings

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

Bucket Sizes

Bucket Type	SAE Heaped Capacity (yd ³) (m ³)		Width Outside Lip (in) (mm)		Bucket Weight (lbs) (kg)		Number of Teeth	Long Undercarriage			with Blade		
								Arm Length			Arm Length		
								8' 2"	9' 11"	6' 11"	8' 2"	9' 11"	6' 11"
							2.50 m	3.01 m	2.11 m	2.50 m	3.01 m	2.11 m	
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 ISO 10567, "Earthmoving Machinery - Hydraulic Excavators - Lift Capacity."

Standard and Optional Equipment

CAB		UNDERCARRIAGE	
12V Power Outlet	✓	500 mm rubber shoes (20.0 in)	●
24V Lighter	✓	600 mm shoes (23.6 in) 3-Bar Steel	●
AM/FM Sound System	✓	700 mm shoes (27.5 in) 3-Bar Steel	●
Anti-Theft Device	✓	Steps	✓
Ashtray	✓	Carbody Belly Pan (swivel guard)	✓
Auxiliary Switches on Control Lever	✓	Center Track Guide (single)	✓
Cab Exterior Light Harness	✓	Track Guides (double)	●
Cab Filter - External	✓	Regular Undercarriage	●
Cab Handrails	✓	Long Undercarriage	●
Cab Interior Light	✓	Sealed Link Chain	●
Cab Lights	●	Strutted Track Chain	✓
Cab Iso-Mounts	✓	X-Pattern Carbody	✓
Clear Roof Window	✓	UPPERSTRUCTURE	
Climate Control A/C and Heater	✓	Belly Pans	✓
Cup Holder	✓	Center Cover (Over Main CV)	✓
Defroster	✓	Fuel Tank Belly Pan	✓
Digital Clock	✓	Hand Rail - RH Access	✓
ECO Gauge	✓	Lifting Eyes for Counterweight	✓
Emergency Exit and Hammer	✓	Lockable Fuel Cap and Service Doors	✓
Face Vent	✓	Rubber Bumper Guards	●
Floor Mat	✓	Tool Box - Lockable	✓
FOPS Head Guard (Level 2)	●	Turntable Tub	✓
Front Guard (mesh)	●	Work Lights - Boom and Tool Box	✓
Front Guard (OPG 1,2)	●	ATTACHMENT	
Front Window One-Touch Lock	✓	8' 2" (2.50 m) Arm	●
Gate Lock Hydraulic Activation	✓	9' 11" (3.01 m) Arm	●
Horn	✓	6' 11" (2.11 m) Arm	●
Hot & Cool Box	✓	15' 2" (4.63 m) Main Boom Section	●
Hour Meter - Digital	✓	Attachment Reinforcement Plate (boom+arm)	●
KAB 815 Suspension Seat	✓	Auxiliary Pipe Brackets	✓
KAB 855 Air-Suspension	●	Boom Work Light	✓
LED Color Monitor	✓	Bucket Anti-Clatter Device	✓
Magazine Rack	✓	Chrome pins	✓
Maintenance Interval Reminders	✓	Easy Maintenance System	✓
MP3 Auxiliary Input Jack	✓	HD Bucket Link	●
On-Board Diagnostic System	✓	Quick Couplers	●
One-Piece Right Window	✓	Remote Lube Bank	✓
Radio Mute Switch	✓	Teardrop pin retention keepers	✓
Rain Deflector	●	Thumbs	●
Rear View Camera	✓	PARTS KIT	
Rear View Mirrors	✓	Bucket Anti-Clatter Device	✓
Roof Sun Shade	✓	Engine Manual	✓
ROPS Certified	✓	Engine Oil Filter	✓
Safety Glass Windows	✓	Filter Wrench	✓
Seat Recline	✓	Fuel Filters	✓
Selectable Monitor Languages	✓	Grease Gun	✓
Side View Camera	●	Green Plug Drain Hose for Engine	✓
Small Storage	✓	Oil Drain	✓
Sun Visor	●	Hydraulic Return Filter	✓
Travel Alarm with Cancel Switch	✓	Ignition Keys	✓
Trip Meter - Digital	✓	Pilot Circuit Hydraulic Filter	✓
Vandal Cover (front window)	●	Rearview Mirrors	✓
Wiper & Washer	✓	Work Light for Boom	✓
Wiper Switch on RH Joystick	✓	AUXILIARY HYDRAULIC OPTIONS	
ENGINE		Single-Acting Auxiliary w/ Switch Activation	●
Air Filter - Double Element	✓	Single-Acting Auxiliary w/ Pedal Activation	●
Air Filter Restriction Indicator	✓	Thumb Auxiliary w/ Switch Activation	●
Auto Warm-Up System	✓	Multi-Function Auxiliary w/ Switch Activation	●
Auto-Idle	✓	Secondary Auxiliary w/ Switch Activation	●
Auto-Idle Engine Shutdown	✓	Combination Auxiliary w/ Switch Activation	●
CEGR - Cooled Exhaust Gas Recirculation	✓	Combination Auxiliary w/ in-cab pressure setting control	●

Equipment Key
 Standard ✓ Optional ●