

**Link-Belt**  
EXCAVATORS • FORESTRY  
DEMOLITION • MATERIAL HANDLING

# 250X<sub>3</sub>

## 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)



## 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. There is plenty of room to rest work boots on the two foot rests on either side of the travel pedals and still have enough space for the straight line travel pedal (standard on 250X3 and larger).

### Roomy

- 5% larger than X2 series cab
- 7% more floor space

### Strong

- ROPS and FOPS Level 1 certified

### Comfortable

- Fully-adjustable KAB seat, forward/backward, up/down
- Control consoles adjust independently of seat
- 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.



The X3's 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
- Option to adjust and set auxiliary hydraulic flows and pressures (210, 250, 300, 350 models only)
- 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

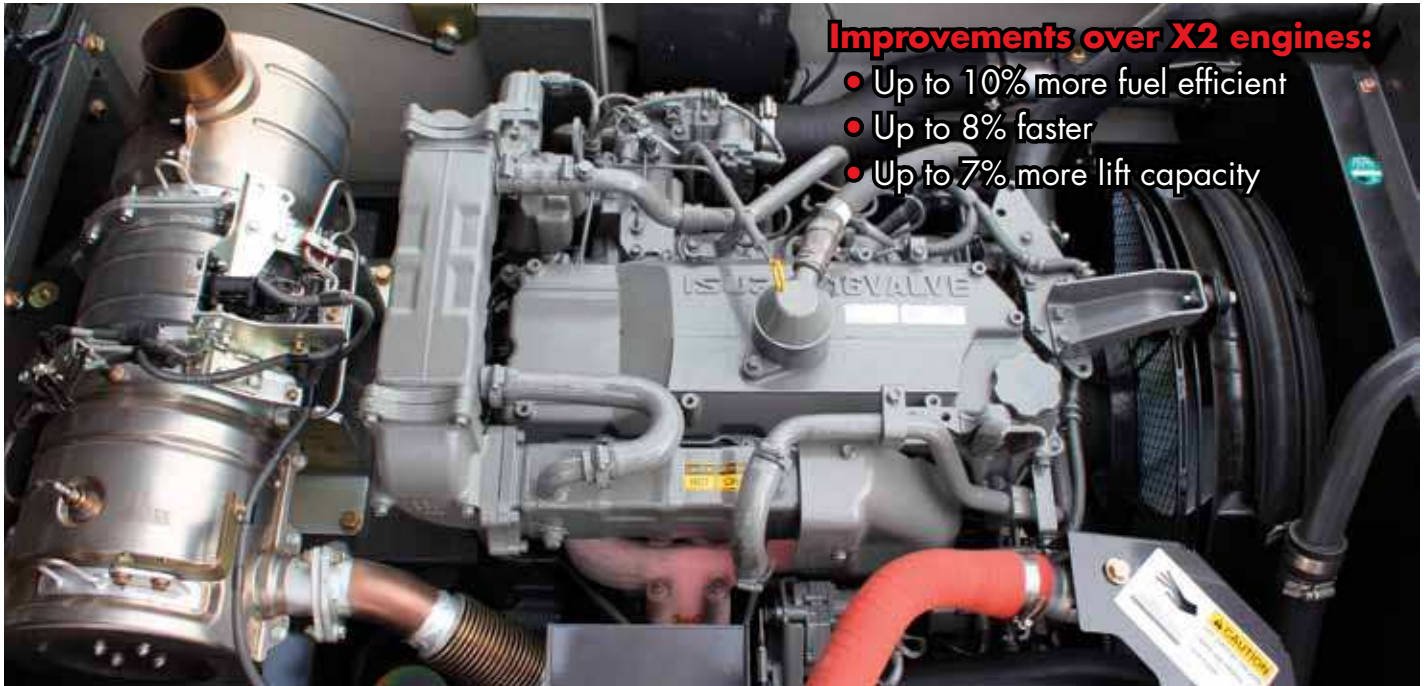


A standard rear-view camera displays a panoramic view of the worksite from the rear of the machine, an optional side-view camera is available.



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

## Engine



### Improvements over X2 engines:

- Up to 10% more fuel efficient
- Up to 8% faster
- Up to 7% 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). The DPD consists of a diesel oxidation catalyst (DOC) and a diesel particulate filter (DPF) for "passive regeneration" of exhaust emissions. This is the cleanest running and most fuel efficient engine used in a Link-Belt excavator to date.

A new variable geometry turbocharger (VGT) 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

- 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
- Standard straight-line travel on 250 class and larger
- 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

- 7% increased lift capacity over X2 series
- 10% better fuel efficiency than X2 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 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.

Three 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

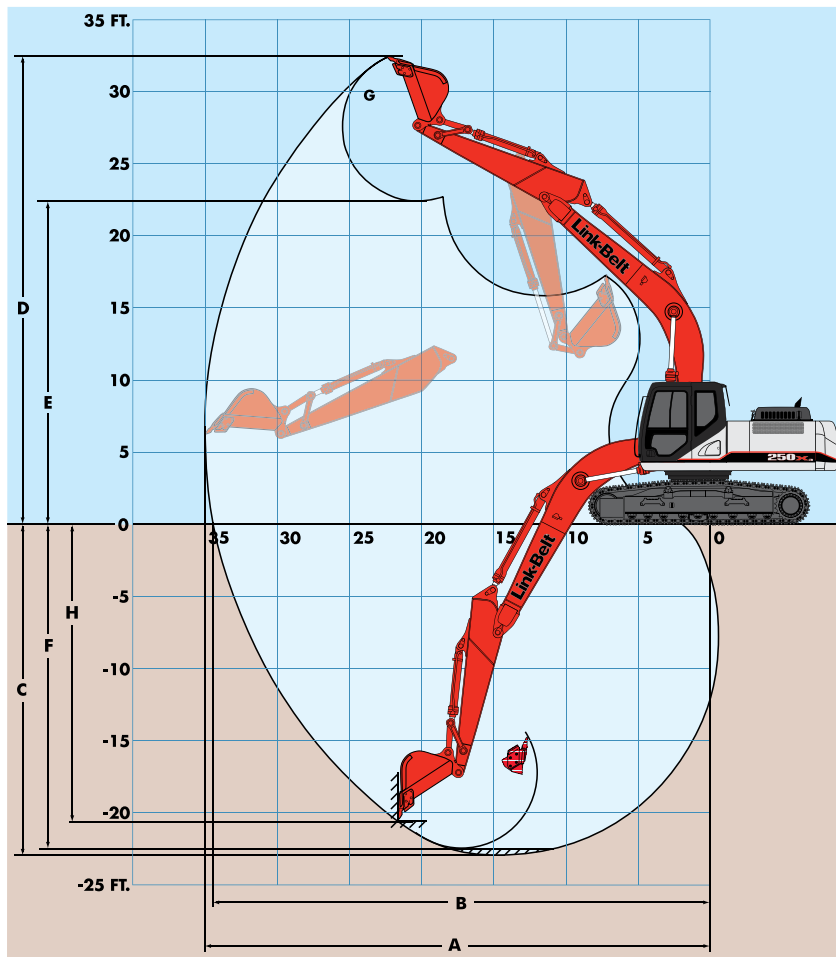
Fuel Tank..... 108.3 Gallons (410.0 Liters)  
 Hydraulic System ... 66.0 Gallons (250.0 Liters)  
 Hydraulic Tank..... 38.8 Gallons (147.0 Liters)  
 Final Drive (per side)... 1.3 Gallons (5.0 Liters)  
 Swing Drive ..... 2.6 Gallons (9.7 Liters)  
 Engine Oil..... 7.8 Gallons (29.6 Liters)  
 Coolant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

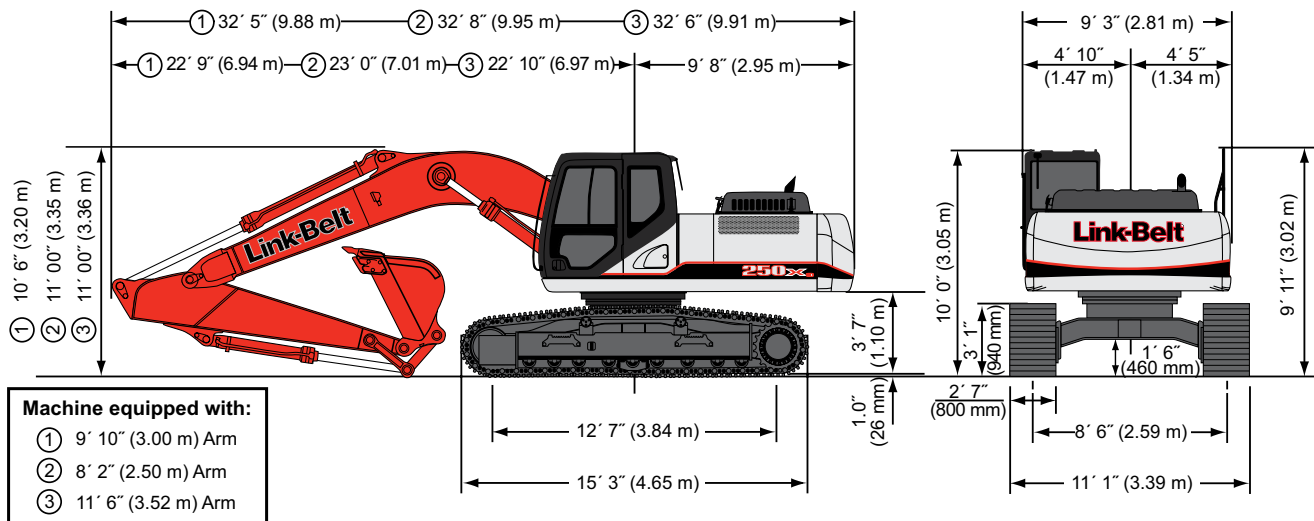
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## Working Range



Machine Equipped with 19' 2" (5.85 m) Boom	Arm 9' 10" (3.00 m)	Arm 8' 2" (2.50 m)	Arm 11' 6" (3.52 m)
A. Maximum reach	33' 9" (10.28 m)	32' 3" (9.82 m)	35' 5" (10.79 m)
B. Maximum reach @ ground level	33' 2" (10.10 m)	31' 7" (9.63 m)	34' 10" (10.62 m)
C. Maximum dig depth	22' 8" (6.90 m)	21' 0" (6.40 m)	24' 4" (7.42 m)
D. Maximum dig height	32' 0" (9.76 m)	31' 4" (9.56 m)	33' 00" (10.07 m)
E. Maximum dump height	22' 2" (6.76 m)	21' 6" (6.55 m)	23' 2" (7.06 m)
F. Digging depth 8' (2.44 m) level bottom	22' 1" (6.74 m)	20' 4" (6.21 m)	23' 10" (7.27 m)
G. Bucket rotation	175°	175°	175°
H. Maximum vertical wall depth	20' 2" (6.14 m)	18' 8" (5.70 m)	21' 11" (6.68 m)

## Travel Dimensions



## 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."

## 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	
	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side
+25' 0" lbs (7.5 m) kg									8,450*	8,450*			5,250*	5,250*
+20' 0" lbs (6.0 m) kg									4,120*	4,120*			2,360*	2,360*
+15' 0" lbs (4.5 m) kg							13,200*	13,200*	12,100*	9,850	9,000*	7,050	4,900*	4,900*
+10' 0" lbs (3.0 m) kg			28,450*	28,450*	20,700*	20,700*	15,950*	13,700	13,500*	9,500	10,450	6,900	5,050*	5,050*
+5' 0" lbs (1.5 m) kg			21,900*	21,900*	25,650*	20,150	18,550*	12,950	13,850	9,050	10,250	6,650	5,350*	5,350*
Ground Line			20,800*	20,800*	28,400*	19,050	19,250	12,300	13,450	8,750	10,050	6,500	5,850*	5,850*
-5' 0" lbs (1.5 m) kg	19,600*	19,600*	26,350*	26,350*	28,850*	18,700	18,850	12,000	13,250	8,550			6,750*	6,500
-10' 0" lbs (3.0 m) kg	24,250*	24,250*	35,550*	35,550*	28,050*	18,850	18,900	12,050	13,400	8,700			8,300*	7,600
-15' 0" lbs (4.5 m) kg	33,600*	33,600*	36,300*	36,300*	25,050*	19,300	18,150*	12,550					11,650*	9,800
-20' 0" lbs (6.0 m) kg			25,500*	25,500*	17,300*	17,300*							13,650*	13,650*

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	
	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side
+25' 0" lbs (7.5 m) kg													7,550*	7,550*
+20' 0" lbs (6.0 m) kg									11,450*	9,900			7,150*	7,150*
+15' 0" lbs (4.5 m) kg					12,550*	12,550*	14,300*	13,900	5,290*	4,610	7,300*	6,850	7,100*	6,800
+10' 0" lbs (3.0 m) kg			32,400*	32,400*	21,800*	21,000	16,800*	13,350	12,950*	9,250	10,300	6,700	7,250*	6,300
+5' 0" lbs (1.5 m) kg			26,800*	26,800*	26,000*	19,650	19,150*	12,650	13,650	8,900	10,100	6,550	7,650*	6,200
Ground Line			19,050*	19,050*	28,750*	18,750	19,000	12,100	13,300	8,600	8,700*	6,450	8,350*	6,400
-5' 0" lbs (1.5 m) kg	21,400*	21,400*	26,950*	26,950*	28,650*	18,650	18,750	11,900	13,200	8,500			9,650*	7,050
-10' 0" lbs (3.0 m) kg	26,800*	26,800*	39,250*	37,250	27,250*	18,900	18,900	12,100	13,400	8,750			12,100*	8,400
-15' 0" lbs (4.5 m) kg	33,000*	33,000*	33,000*	33,000*	23,150*	19,500	16,200*	12,650					14,100*	11,350

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	
	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side
+25' 0" lbs (7.5 m) kg									7,150*	7,150*			4,200*	4,200*
+20' 0" lbs (6.0 m) kg									3,290*	3,290*			1,890*	1,890*
+15' 0" lbs (4.5 m) kg									9,200*	9,200*	7,000*	7,000*	3,950*	3,950*
+10' 0" lbs (3.0 m) kg									4,310*	4,310*	3,470*	3,410	1,790*	1,790*
+5' 0" lbs (1.5 m) kg									11,250*	10,000	9,000*	7,150	3,900*	3,900*
Ground Line									5,130*	4,650	4,260*	3,340	1,770*	1,770*
-5' 0" lbs (1.5 m) kg			31,650*	31,650*	23,950*	20,550	17,600*	13,050	12,600*	9,550	10,500	6,900	4,000*	4,000*
-10' 0" lbs (3.0 m) kg			13,240*	13,240*	11,100*	9,540	8,120*	6,060	5,820*	4,450	4,890	3,230	1,820*	1,820*
-15' 0" lbs (4.5 m) kg			25,200*	25,200*	28,700*	18,550	18,800	11,900	13,150	8,450	9,900	6,350	4,200*	4,200*
-20' 0" lbs (6.0 m) kg			11,160*	11,160*	13,250*	8,630	8,750	5,530	6,120	3,930	4,610	2,950	2,400*	2,400*
Ground Line	9,450*	9,450*	21,850*	21,850*	27,500*	19,200	19,250*	12,350	13,450	8,700	10,000	6,450	4,650*	4,650*
-5' 0" lbs (1.5 m) kg	16,550*	16,550*	25,200*	25,200*	28,700*	18,550	18,800	11,900	13,150	8,450	9,900	6,350	5,300*	5,300*
-10' 0" lbs (3.0 m) kg	7,570*	7,570*	11,160*	11,160*	13,250*	8,630	8,750	5,530	6,120	3,930	4,610	2,950	2,400*	2,400*
-15' 0" lbs (4.5 m) kg	21,700*	21,700*	32,400*	32,400*	28,300*	18,550	18,700	11,850	13,200	8,500			6,450*	6,450*
-20' 0" lbs (6.0 m) kg	9,700*	9,700*	14,320*	14,320*	13,080*	8,640	8,710	5,510	6,120	3,930			2,900*	2,900*
Ground Line	32,000*	32,000*	38,700*	37,850	26,200*	18,950	18,750	12,200	12,400*	8,750			8,650*	8,350
-5' 0" lbs (1.5 m) kg	14,170*	14,170*	17,940*	17,650	12,160*	8,800	8,730	5,640	6,200	4,080			3,840*	3,730
-10' 0" lbs (3.0 m) kg	30,100*	30,100*	30,100*	30,100*	20,650*	19,300*	13,450*	12,500					12,800*	12,250
-15' 0" lbs (4.5 m) kg	14,160*	14,160*	14,160*	14,160*	9,760*	8,990*	6,630*	5,820					5,800*	5,360

## Standard and Optional Equipment

<p><b>CAB</b></p> <ul style="list-style-type: none"> <li>12V Power Outlet ✓</li> <li>24V Lighter ✓</li> <li>AM/FM Sound System ✓</li> <li>Anti-Theft Device ✓</li> <li>Ashtray ✓</li> <li>Auxiliary Switches on Control Lever ✓</li> <li>Cab Exterior Light Harness ✓</li> <li>Cab Filter - External ✓</li> <li>Cab Handrails ✓</li> <li>Cab Interior Light ✓</li> <li>Cab Lights ●</li> <li>Cab Iso-Mounts ✓</li> <li>Clear Roof Window ✓</li> <li>Climate Control A/C and Heater ✓</li> <li>Console Tilt ✓</li> <li>Cup Holder ✓</li> <li>Defroster ✓</li> <li>Digital Clock ✓</li> <li>ECO Gauge ✓</li> <li>Emergency Exit and Hammer ✓</li> <li>Face Vent ✓</li> <li>Floor Mat ✓</li> <li>FOPS Head Guard (Level 2) ✓</li> <li>Front Guard (mesh) ✓</li> <li>Front Guard (OPG 1,2) ✓</li> <li>Front Window One-Touch Lock ✓</li> <li>Gate Lock Hydraulic Activation ✓</li> <li>Horn ✓</li> <li>Hot &amp; Cool Box ✓</li> <li>Hour Meter - Digital ✓</li> <li>KAB 815 Suspension Seat ✓</li> <li>KAB 855 Air-Suspension ✓</li> <li>LED Color Monitor ✓</li> <li>Magazine Rack ✓</li> <li>Maintenance Interval Reminders ✓</li> <li>MP3 Auxiliary Input Jack ✓</li> <li>On-Board Diagnostic System ✓</li> <li>One-Piece Right Window ✓</li> <li>Radio Mute Switch ✓</li> <li>Rain Deflector ✓</li> <li>Rear View Camera ✓</li> <li>Rear View Mirrors ✓</li> <li>Roof Sun Shade ✓</li> <li>ROPS Certified ✓</li> <li>Safety Glass Windows ✓</li> <li>Seat Recline ✓</li> <li>Selectable Monitor Languages ✓</li> <li>Side View Camera ●</li> </ul>	<ul style="list-style-type: none"> <li>Small Storage ✓</li> <li>Sun Visor ●</li> <li>Travel Alarm with Cancel Switch ✓</li> <li>Trip Meter - Digital ✓</li> <li>Vandal Cover (front window) ●</li> <li>Wiper &amp; Washer ✓</li> <li>Wiper Switch on RH Joystick ✓</li> </ul> <p><b>ENGINE</b></p> <ul style="list-style-type: none"> <li>Air Filter - Double Element ✓</li> <li>Air Filter Restriction Indicator ✓</li> <li>Air Pre-Cleaner ●</li> <li>Auto Warm-Up System ✓</li> <li>Auto-Idle ✓</li> <li>Auto-Idle Engine Shutdown ✓</li> <li>CEGR - Cooled Exhaust Gas Recirculation ✓</li> <li>Cooling Fan ✓</li> <li>Diesel Oxidation Catalyst (DOC) ✓</li> <li>Diesel Particulate Filter (DPF) ✓</li> <li>Drain for Fuel Tank ✓</li> <li>Dual Remote Fuel Filters with Water Separation ✓</li> <li>EGR Coolers ✓</li> <li>Emergency Engine Stop ●</li> <li>Engine Idle System ✓</li> <li>Remote Engine Oil Drain ✓</li> <li>Engine Protection Feature ✓</li> <li>External Fuel Gauge ✓</li> <li>Fan Housing ✓</li> <li>Fuel Filter Restriction Indicator ✓</li> <li>Fuel Management System ✓</li> <li>Fuel Shut-Off Valve ✓</li> <li>Fuel Usage Monitor ✓</li> <li>Glow Plug Pre-Heat ✓</li> <li>Idle-Start ✓</li> <li>Intercooler ✓</li> <li>Neutral Start ✓</li> <li>One-Touch Idle ✓</li> <li>Passive Emissions-Regeneration ✓</li> <li>Radiator / Oil Cooler Protective Screen ✓</li> <li>Regeneration Gauge on Monitor ✓</li> <li>Remote Oil Filter ✓</li> <li>VG Turbocharger ✓</li> </ul> <p><b>HYDRAULICS</b></p> <ul style="list-style-type: none"> <li>Arm Regeneration ✓</li> <li>Arm Speed Assistance - 2 Pump Flow ✓</li> <li>Attachment Cushion Valve ✓</li> <li>Auto Swing Priority ✓</li> </ul>	<ul style="list-style-type: none"> <li>Auxiliary Flow Control ✓</li> <li>Auxiliary Tool Settings - Memory ✓</li> <li>Auxiliary Valve ✓</li> <li>Boom Regeneration ✓</li> <li>Boom Speed Assistance - 2 Pump Flow ✓</li> <li>Bucket Curl Assist ✓</li> <li>Control Levers Pre-Wired for Auxiliary ✓</li> <li>Control Pattern Changer (2 way) ✓</li> <li>Fire Wall ✓</li> <li>Free Swing ✓</li> <li>Holding Valve - Arm ✓</li> <li>Holding Valve - Boom ✓</li> <li>Hose Burst Check Valve ✓</li> <li>Hydraulic Filter Restriction Indicator ✓</li> <li>Long Life Hydraulic Oil - 5,000 Hour ✓</li> <li>Neutral Pump De-stroke ✓</li> <li>Oil Cooler ✓</li> <li>Power Boost ✓</li> <li>Pressure Reading on Monitor ✓</li> <li>Pump Stand-By Pressure ✓</li> <li>Single Pedal Travel ✓</li> <li>Straight Travel Circuit ✓</li> </ul> <p><b>AUXILIARY HYDRAULIC OPTIONS</b></p> <ul style="list-style-type: none"> <li>Single-Acting Auxiliary with Switch Activation ●</li> <li>Single-Acting Auxiliary with Pedal Activation ●</li> <li>Thumb Auxiliary with Switch Activation ●</li> <li>Multi-Function Auxiliary with Switch Activation ●</li> <li>Secondary Auxiliary with Switch Activation ●</li> <li>Combination Auxiliary with Switch Activation ●</li> <li>Combination Auxiliary with in-cab pressure setting control ●</li> </ul> <p><b>UNDERCARRIAGE</b></p> <ul style="list-style-type: none"> <li>600 mm shoes (23.6 in) 3-Bar Steel ●</li> <li>700 mm shoes (27.5 in) 3-Bar Steel ●</li> <li>800 mm shoes (31.5 in) 3-Bar Steel ✓</li> <li>Steps ✓</li> <li>Carbody Belly Pan (swivel guard) ✓</li> <li>Center Track Guide (single) ✓</li> <li>Center Track Guide (triple) ●</li> <li>Long Undercarriage ✓</li> <li>Sealed Link Chain ✓</li> <li>Strutted Track Chain ✓</li> <li>X-Pattern Carbody ✓</li> </ul>	<p><b>UPPERSTRUCTURE</b></p> <ul style="list-style-type: none"> <li>Belly Pans ✓</li> <li>Center Cover (Over Main CV) ✓</li> <li>Fuel Tank Belly Pan ✓</li> <li>Hand Rail - RH Access ✓</li> <li>Lifting Eyes for Counterweight ✓</li> <li>Lockable Fuel Cap and Service Doors ✓</li> <li>Rubber Bumper Guards ●</li> <li>Tool Box - Lockable ✓</li> <li>Turntable Tub ✓</li> <li>Work Lights - Boom and Tool Box ✓</li> </ul> <p><b>ATTACHMENT</b></p> <ul style="list-style-type: none"> <li>8' 2" (2.50 m) Short Arm ●</li> <li>9' 10" (3.00 m) Arm ●</li> <li>11' 6" (3.50 m) Long Arm ●</li> <li>19' 2" (5.85 m) Main Boom Section ●</li> <li>Attachment Reinforcement Plate (boom+arm) ●</li> <li>Auxiliary Pipe Brackets ✓</li> <li>Boom Work Light ✓</li> <li>Bucket Anti-Clatter Device ✓</li> <li>Chrome pins ✓</li> <li>Easy Maintenance System ✓</li> <li>HD Bucket Link ●</li> <li>Quick Couplers ●</li> <li>Remote Lube Bank ✓</li> <li>Teardrop pin retention keepers ✓</li> <li>Thumbs ●</li> </ul> <p><b>PARTS KIT</b></p> <ul style="list-style-type: none"> <li>Bucket Anti-Clatter Device ✓</li> <li>Engine Manual ✓</li> <li>Engine Oil Filter ✓</li> <li>Filter Wrench ✓</li> <li>Fuel Filters ✓</li> <li>Grease Gun ✓</li> <li>Green Plug Drain Hose for Engine Oil Drain ✓</li> <li>Hydraulic Return Filter ✓</li> <li>Ignition Keys ✓</li> <li>Pilot Circuit Hydraulic Filter ✓</li> <li>Rearview Mirrors ✓</li> <li>Work Light for Boom ✓</li> </ul>
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**Equipment Key**

Standard ✓ Optional ●

## Bucket Sizes

Bucket Type	SAE Heaped Capacity		Width Outside Lip		Bucket Weight		Number of Teeth	Arm Length		
	(yd <sup>3</sup> )	(m <sup>3</sup> )	(in)	(mm)	(lbs)	(kg)		8' 2" 2.50 m	9' 10" 3.00 m	11' 6" 3.50 m
<b>STDP</b> Standard duty plate	0.80	0.61	24	610	1285	583	3	H	H	H
	1.06	0.81	30	762	1458	661	4	H	H	H
	1.33	1.02	36	914	1630	739	5	H	H	H
	1.61	1.23	42	1067	1774	805	5	H	M	L
	1.89	1.45	48	1219	1918	870	5	M	L	L
	2.16	1.65	54	1372	2091	948	6	L	L	N/A
2.43	1.86	60	1524	2239	1016	6	L	N/A	N/A	
<b>HDP</b> Heavy duty plate	0.80	0.61	24	610	1498	679	3	H	H	H
	1.06	0.81	30	762	1705	773	4	H	H	H
	1.33	1.02	36	914	1873	850	4	H	H	M
	1.61	1.23	42	1067	2080	943	5	M	M	M
	1.89	1.45	48	1219	2247	1019	5	L	L	L
	2.16	1.65	54	1372	2454	1113	6	L	L	N/A
2.43	1.86	60	1524	2621	1189	6	N/A	N/A	N/A	
<b>XDP</b> Extreme duty plate	0.79	0.60	24	610	2230	1012	3	H	H	H
	1.05	0.80	30	762	2528	1147	4	H	H	H
	1.32	1.01	36	914	2749	1247	4	H	H	M
	1.59	1.22	42	1067	3047	1382	5	M	M	L
	1.87	1.43	48	1219	3267	1482	5	L	L	N/A
	2.15	1.64	54	1372	3565	1617	6	L	N/A	N/A
2.43	1.86	60	1524	3786	1717	6	N/A	N/A	N/A	
<b>POWER HDP for use with ESCO multi-pin grabber only</b>	0.76	0.58	24	610	3025	1372	3	H	H	H
	0.98	0.75	30	762	3183	1444	4	H	H	H
	1.21	0.93	36	914	3392	1539	4	H	H	M
	1.44	1.10	42	1067	3552	1611	5	M	M	L
	1.68	1.28	48	1219	3709	1682	5	L	L	N/A
	1.91	1.46	54	1372	3920	1778	6	L	N/A	N/A
<b>DITCH</b>	1.30	0.99	60	1524	1767	802	0	H	H	H
	1.45	1.11	66	1676	1928	875	0	H	H	M
	1.59	1.22	72	1829	2034	923	0	H	M	M

Approval Code For Arm/Bucket Combinations	
H.....	Heavy material (up to 3,370 lbs./yd <sup>3</sup> )
M.....	Medium material (up to 2,700 lbs./yd <sup>3</sup> )
L.....	Light material (up to 2,020 lbs./yd <sup>3</sup> )
N/A.....	Not applicable

Litho in USA 3/13 #LBX2229

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