

Link-Belt
EXCAVATORS • FORESTRY
DEMOLITION • MATERIAL HANDLING

235X₃

SPECIFICATIONS

SAE Net Horsepower: 160 HP (119 kW)
Operating Weight: 56,879 lbs. (25 800 kg)
Digging Depth: 21 ft. 10 in. (6.65 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

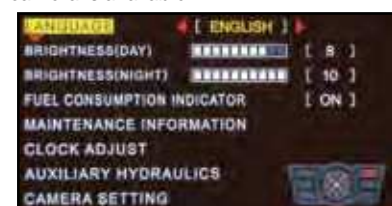
- Select and set up attachments
- Track or monitor up to 13 service interval reminders
- Engine idle shutdown, which, when selected, safely shuts off the engine after 3 minutes of idling to conserve fuel
- Adjust hydraulic flow
- 18 languages available

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

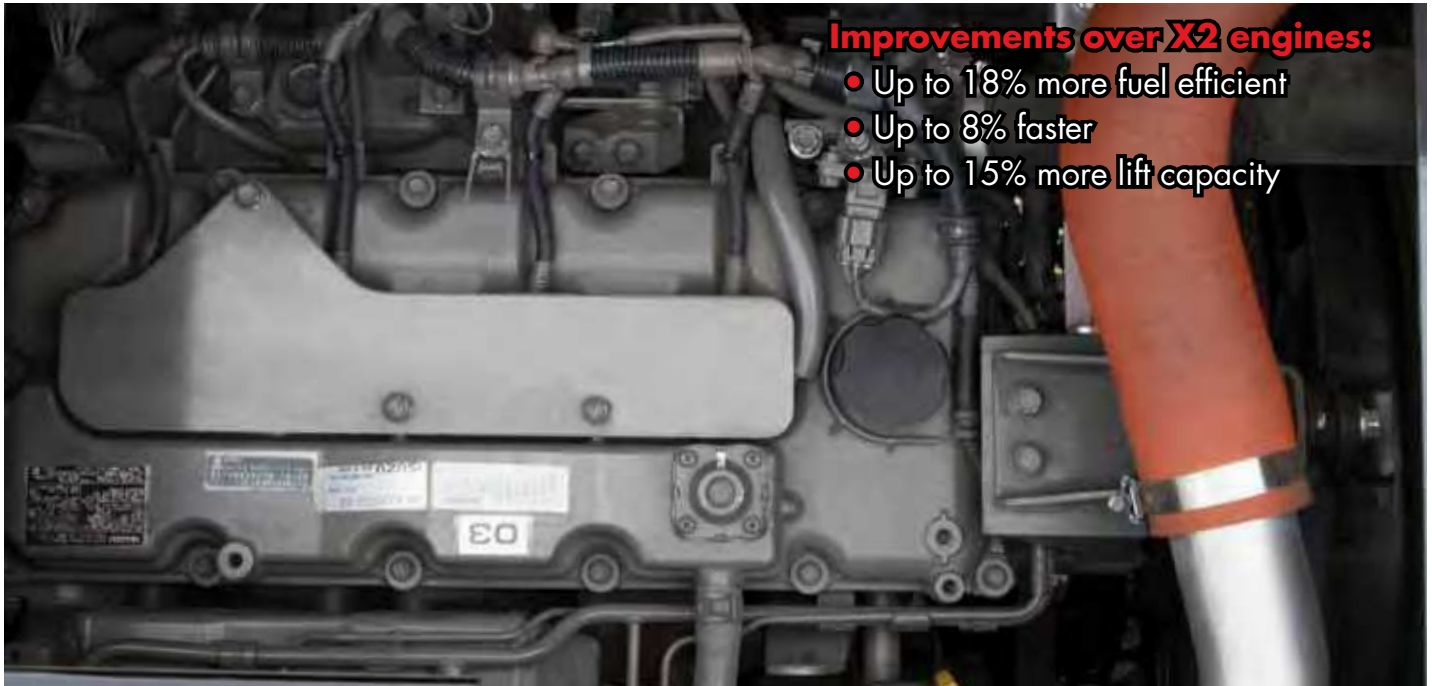


A standard rear-view camera displays a panoramic view of the worksite from the rear of the machine, an optional side-view camera is available.



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-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... 160 hp (119 kW) @ 1,800 rpm
 Displacement..... 317 cu in (5.2 L)
 Maximum Torque 458 lbf-ft (621 Nm) @ 1500 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, 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 16,720 BTU/h
 Heater Rating 18,425 BTU/h
 Sound Level - Cab Interior..... 73.0 dB(A)
 Sound Level - Exterior..... 99.0 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..... 11.8 rpm
 Tail Swing 5' 10" (1.79 m)
 Swing Torque 47,204 lbf-ft (64.0 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 55.7 gpm (211 L/min)
 Pilot Pump Maximum Flow ... 4.8 gpm (18 L/min)

Relief Valve Settings

Boom/Arm/Bucket..... 4,970 psi (34.3 MPa)
 in Power Boost 5,340 psi (36.8 MPa)
 Swing Circuit..... 4,260 psi (29.4 MPa)
 Travel Circuit 4,970 psi (34.3 MPa)

Hydraulic Cylinders

number of cylinders - bore x rod x stroke
 Boom 2 - 4.7" x 3.3" x 53.9"
 (120 mm x 85 mm x 1,370 mm)
 Arm 1 - 5.5" x 3.9" x 57.5"
 (140 mm x 100 mm x 1,460 mm)
 Bucket 4.7" x 3.3" x 39.8"
 (120 mm x 85 mm x 1,010 mm)
 Blade 2 - 5.1" x 3.1" x 10.2"
 (130 mm x 80 mm x 260 mm)

Undercarriage

X Pattern carbody with LC long undercarriage or regular undercarriage with dozer blade, 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
 LC no blade 8 per Side
 Regular undercarriage w/ blade ... 7 per Side
 Track Link Pitch 7.48" (190 mm)
 Shoes
 LC no blade 49 per Side
 Regular undercarriage w/ blade ... 46 per Side
 Shoe Width
 LC no blade 31.5" (800 mm)
 Regular undercarriage w/ blade ... 23.6" (600 mm)
 Ground Pressure
 LC no blade 800 mm shoe 5.8 psi (0.4 Bar)
 Reg. w/ blade 600 mm shoe ... 8.4 psi (0.58 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 2.0 - 3.1 mph (3.2 - 5.0 km/h)
 Drawbar Pull 45,187 lbf (201 kN)
 Gradeability..... 70% (35°)

Attachment

Boom 18' 8" (5.70 m)
Available Arms **Digging Force**
 • 9' 8" (2.94 m) 23,160 lbf (103 kN)
 with Auto Power Boost ... 24,730 lbf (110 kN)
 • 7' 10" (2.40 m) 27,650 lbf (123 kN)
 with Auto Power Boost ... 29,670 lbf (132 kN)
 Bucket Digging Force..... 31,920 lbf (142 kN)
 with Auto Power Boost ... 34,170 lbf (152 kN)

Lubricant and Coolant Capacity

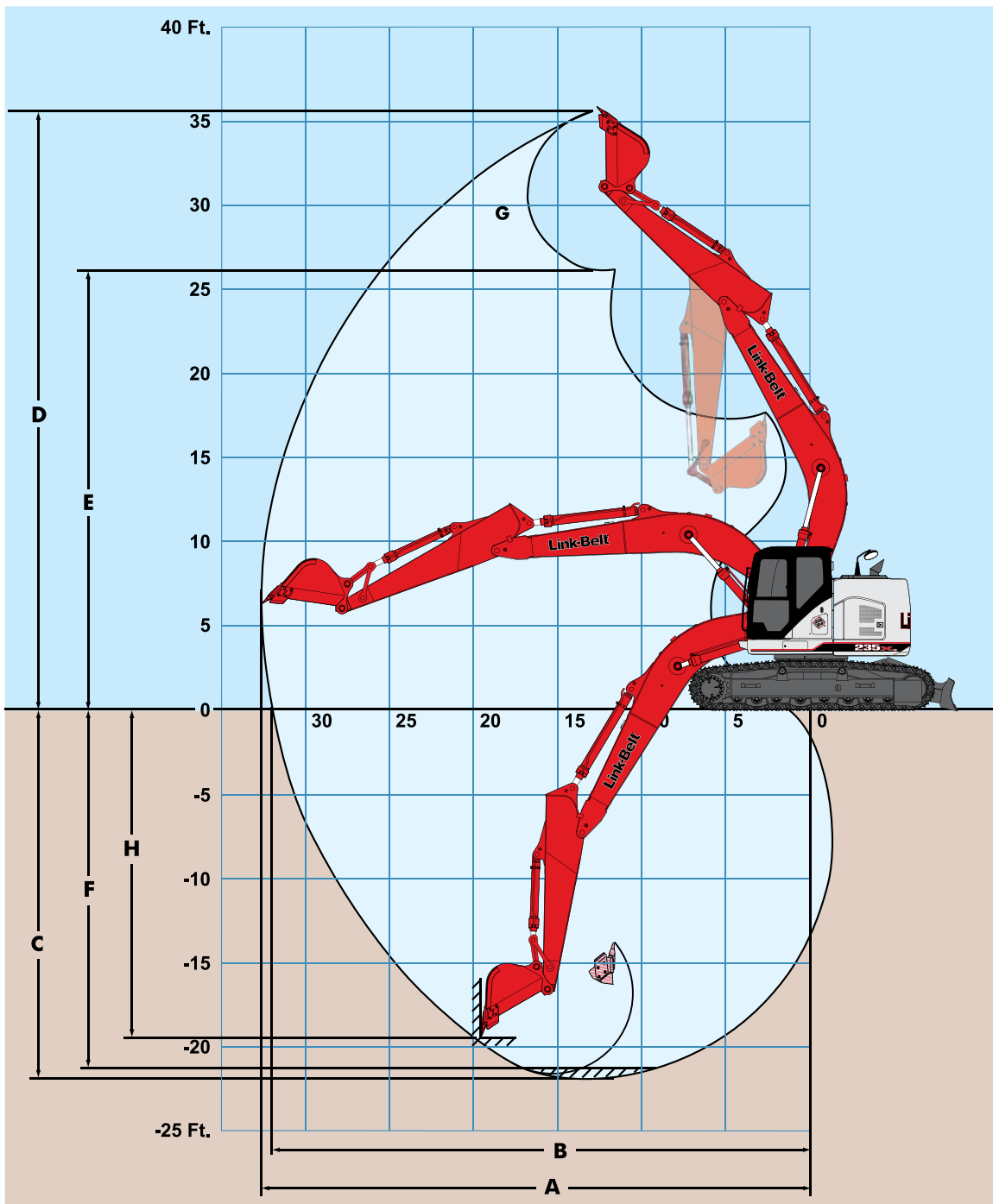
Fuel Tank..... 84.5 Gallons (320.0 Liters)
 Hydraulic System ... 66.5 Gallons (252.0 Liters)
 Hydraulic Tank..... 30.1 Gallons (114.0 Liters)
 Final Drive (per side)... 1.3 Gallons (5.0 Liters)
 Swing Drive 1.3 Gallons (5.0 Liters)
 Engine Oil..... 6.1 Gallons (23.1 Liters)
 Coolant System..... 8.1 Gallons (31.0 Liters)

Operating Weight

Working weight with LC, no blade,
 31.5" (800 mm) shoes, 18' 8" (5.70 m) boom,
 9' 8" (2.94 m) arm, 1,440 lb. (651 kg) bucket,
 16,975 lbs (7 700 kg) counterweight
 55,997 lbs. (25 400 kg)

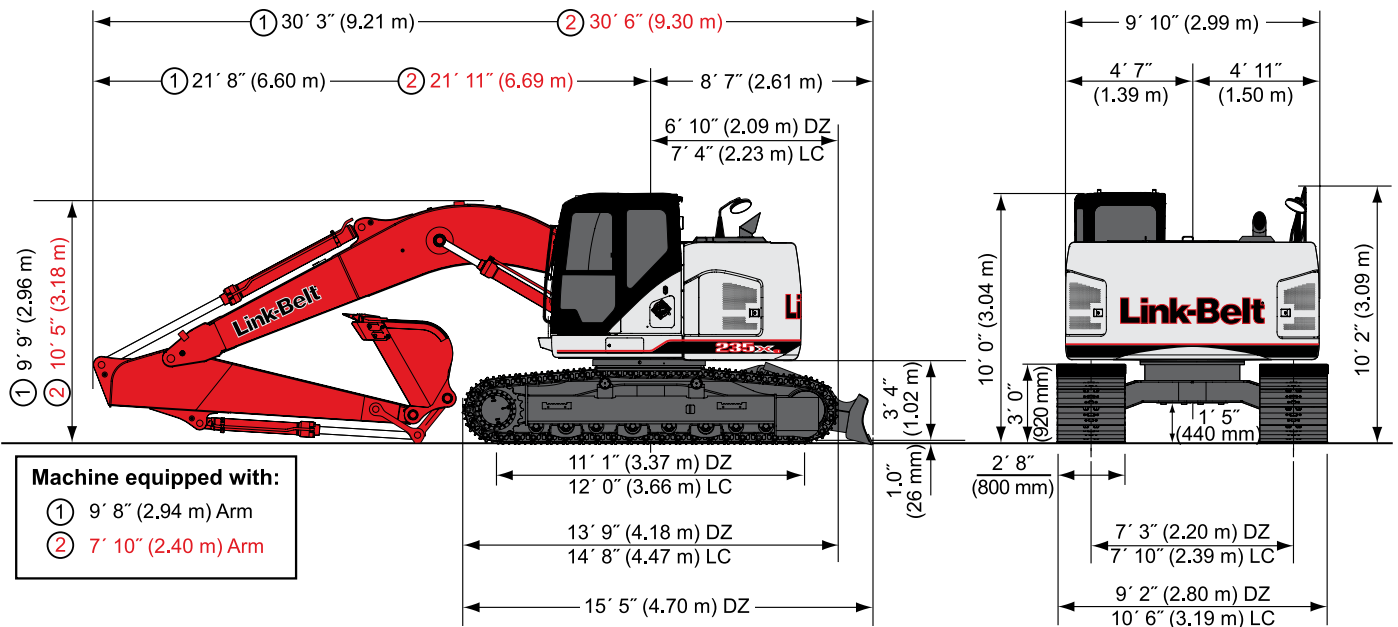
Working weight with regular undercarriage,
 dozer blade, 23.6" (600 mm) shoes,
 18' 8" (5.70 m) boom, 9' 8" (2.94 m) arm,
 1,440 lb. (651 kg) bucket 16,975 lbs (7 700 kg)
 counterweight..... 56,879 lbs. (25 800 kg)

Working Ranges

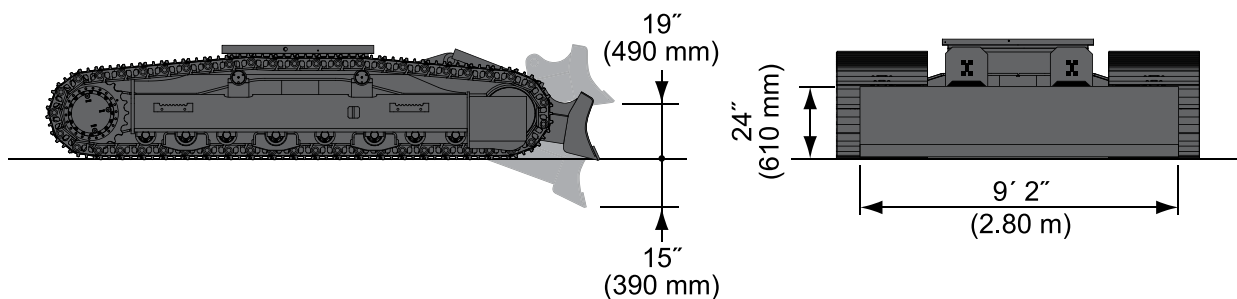


Machine Equipped with 18' 8" (5.70 m) Boom	Arm 9' 8" (2.94 m)	Arm 7' 10" (2.40 m)
A. Maximum reach	32' 4" (9.85 m)	30' 9" (9.37 m)
B. Maximum reach @ ground level	31' 9" (9.67 m)	30' 1" (9.18 m)
C. Maximum dig depth	21' 10" (6.65 m)	20' 1" (6.11 m)
D. Maximum dig height	35' 8" (10.86 m)	34' 6" (10.52 m)
E. Maximum dump height	26' 2" (7.97 m)	25' 0" (7.63 m)
F. Digging depth 8' (2.44 m) level bottom	21' 3" (6.47 m)	19' 5" (5.91 m)
G. Bucket rotation	177°	177°
H. Maximum vertical wall depth	19' 5" (5.92 m)	18' 0" (5.48 m)

Travel Dimensions



Blade Dimensions



Notes: Excavator lifting capacities













1. Lifting capacities shown should not be exceeded. Weight of all lifting accessories must be deducted from the above lifting capacities.
2. 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.
3. 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.
4. Least stable position is over the side.
5. Operator should be fully acquainted with the Operator's Manual & Operating Safety Booklet, furnished by LBX before operating the machine.
6. Capacities apply only to the machine as originally manufactured and normally equipped by LBX Company, LLC.
7. Lift capacity ratings are based on ISO 10567, "Earthmoving Machinery - Hydraulic Excavators - Lift Capacity."













Lifting Capacities - ISO Ratings

Radius of Load - Regular Undercarriage with Blade Down														
9' 8" (2.94 m) Arm with 18' 8" (5.70 m) Boom and 1,450 lb. (650 kg) Bucket with Power-Boost Applied														
	5' 0" (1.52 m)		10' 0" (3.05 m)		15' 0" (4.57 m)		20' 0" (6.10 m)		25' 0" (7.62 m)		30' 0" (9.14 m)		Cap at Max. Reach	
	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side
+30' 0" lbs													5,650*	5,650*
(9.14 m) kg													2 530*	2 530*
+25' 0" lbs							8,850*	8,850*					4,950*	4,950*
(7.62 m) kg							4 020*	4 020*					2 230*	2 230*
+20' 0" lbs							9,850*	9,850*	8,950*	8,200			4,700*	4,700*
(6.10 m) kg							4 490*	4 490*	4 080*	3 820			2 130*	2 130*
+15' 0" lbs			10,950*	10,950*	12,300*	12,300*	10,950*	10,950*	10,050*	8,000	5,300*	5,300*	4,650*	4,650*
(4.57 m) kg			5 020*	5 020*	5 700*	5 700*	5 060*	5 060*	4 670*	3 720	3 020*	2 680	2 120*	2 120*
+10' 0" lbs			23,800*	23,800*	17,100*	16,900	13,200*	11,000	11,100*	7,700	7,950*	5,600	4,850*	4,850*
(3.05 m) kg			11 030*	11 030*	7 950*	7 840	6 100*	5 100	5 110*	3 570	4 040*	2 620	2 190*	2 190*
+5' 0" lbs			21,000*	21,000*	20,850*	16,050	15,150*	10,400	12,200*	7,350	8,700*	5,450	5,150*	5,100
(1.52 m) kg			8 910*	8 910*	9 670*	7 450	7 010*	4 840	5 630*	3 430	4 470*	2 540	2 330*	2 320
Ground Line lbs			19,400*	19,400*	22,750*	15,250	16,400*	9,950	12,850*	7,100	6,800*	5,350	5,700*	5,300
kg			8 530*	8 530*	10 510*	7 070	7 580*	4 630	5 940*	3 310	3 890*	2 490	2 580*	2 400
-5' 0" lbs	16,250*	16,250*	24,800*	24,800*	22,850*	14,950	16,600*	9,750	12,850*	7,000			6,650*	5,800
(1.52 m) kg	7 350*	7 350*	10 960*	10 960*	10 550*	6 950	7 680*	4 520	5 940*	3 260			3 000*	2 620
-10' 0" lbs	22,350*	22,350*	32,050*	29,450	21,850*	15,100	16,000*	9,850	11,650*	7,150			8,400*	6,850
(3.05 m) kg	10 000*	10 000*	14 760*	13 710	10 090*	7 010	7 400*	4 560	5 500*	3 320			3 770*	3 090
-15' 0" lbs	32,300*	32,300*	26,700*	26,700*	18,650*	15,550	13,050*	10,250					11,050*	9,150
(4.57 m) kg	14 330*	14 330*	12 410*	12 410*	8 690*	7 210	6 180*	4 750					5 010*	4 080

Radius of Load - Regular Undercarriage with Blade Up														
9' 8" (2.94 m) Arm with 18' 8" (5.70 m) Boom and 1,450 lb. (650 kg) Bucket with Power-Boost Applied														
	5' 0" (1.52 m)		10' 0" (3.05 m)		15' 0" (4.57 m)		20' 0" (6.10 m)		25' 0" (7.62 m)		30' 0" (9.14 m)		Cap at Max. Reach	
	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side
+30' 0" lbs													5,650*	5,650*
(9.14 m) kg													2 530*	2 530*
+25' 0" lbs							8,850*	8,850*					4,950*	4,950*
(7.62 m) kg							4 020*	4 020*					2 230*	2 230*
+20' 0" lbs							9,850*	9,850*	8,950*	7,850			4,700*	4,700*
(6.10 m) kg							4 490*	4 490*	4 080*	3 660			2 130*	2 130*
+15' 0" lbs			10,950*	10,950*	12,300*	12,300*	10,950*	10,950*	10,050*	7,650	5,300*	5,300*	4,650*	4,650*
(4.57 m) kg			5 020*	5 020*	5 700*	5 700*	5 060*	5 060*	4 670*	3 550	3 020*	2 550	2 120*	2 120*
+10' 0" lbs			23,800*	23,800*	17,100*	16,250	13,200*	10,500	11,000	7,350	7,950*	5,350	4,850*	4,850*
(3.05 m) kg			11 030*	11 030*	7 950*	7 540	6 100*	4 880	5 100*	3 410	3 800	2 490	2 190*	2 190*
+5' 0" lbs			21,000*	21,000*	20,850*	15,300	15,100*	9,950	10,750	7,050	8,000	5,200	5,150*	4,850
(1.52 m) kg			8 910*	8 910*	9 670*	7 090	7 010*	4 620	4 990	3 270	3 730	2 420	2 330*	2 210
Ground Line lbs			19,400*	19,400*	22,750*	14,450	14,750	9,500	10,450	6,800	6,800*	5,100	5,700*	5,000
kg			8 530*	8 530*	10 510*	6 720	6 860	4 410	4 860	3 150	3 670	2 370	2 580*	2 280
-5' 0" lbs	16,250*	16,250*	24,800*	24,800*	22,850*	14,200	14,500	9,250	10,350	6,650			6,650*	5,500
(1.52 m) kg	7 350*	7 350*	10 960*	10 960*	10 550*	6 600	6 740	4 300	4 800	3 100			3 000*	2 490
-10' 0" lbs	22,350*	22,350*	32,050*	27,750	21,850*	14,350	14,550	9,350	10,450	6,850			8,400*	6,500
(3.05 m) kg	10 000*	10 000*	14 760*	12 940	10 090*	6 660	6 770	4 340	4 870	3 160			3 770*	2 940
-15' 0" lbs	32,300*	32,300*	26,700*	26,700*	18,650*	14,800	13,050*	9,800					11,050*	8,750
(4.57 m) kg	14 330*	14 330*	12 410*	12 410*	8 690*	6 860	6 180*	4 550					5 010*	3 890

Lifting Capacities - ISO Ratings

Radius of Load - Regular Undercarriage with Blade Down												
7' 10" (2.40 m) Arm with 18' 8" (5.70 m) Boom and 1,550 lb. (700 kg) Bucket with Power-Boost Applied												
	5' 0" (1.52 m)		10' 0" (3.05 m)		15' 0" (4.57 m)		20' 0" (6.10 m)		25' 0" (7.62 m)		Cap at Max. Reach	
	 End	 Side	 End	 Side	 End	 Side	 End	 Side	 End	 Side	 End	 Side
+30' 0" lbs					10,000*	10,000*					8,500*	8,500*
(9.14 m) kg					3 510*	3 510*					3 770*	3 770*
+25' 0" lbs					8,050*	8,050*	9,800*	9,800*			7,300*	7,300*
(7.62 m) kg					3 670*	3 670*	4 420*	4 420*			3 290*	3 290*
+20' 0" lbs					11,300*	11,300*	10,750*	10,750*	9,800*	7,950	6,900*	6,900*
(6.10 m) kg					5 190*	5 190*	4 970*	4 970*	4 480*	3 710	3 130*	3 130*
+15' 0" lbs			18,000*	18,000*	14,350*	14,350*	11,900*	11,300	10,750*	7,750	6,850*	6,100
(4.57 m) kg			8 430*	8 430*	6 670*	6 670*	5 510*	5 230	4 970*	3 620	3 110*	2 750
+10' 0" lbs			26,800*	26,800*	18,500*	16,800	13,900*	10,750	11,650*	7,500	7,050*	5,600
(3.05 m) kg			10 110*	10 110*	8 550*	7 780	6 430*	4 980	5 350*	3 490	3 200*	2 540
+5' 0" lbs					21,650*	15,650	15,650*	10,200	12,500*	7,250	7,500*	5,500
(1.52 m) kg					9 960*	7 260	7 230*	4 740	5 760*	3 360	3 400*	2 490
Ground Line lbs			17,500*	17,500*	22,850*	15,000	16,550*	9,800	12,850*	7,000	8,250*	5,700
kg			7 710*	7 710*	10 560*	6 970	7 640*	4 560	5 950*	3 260	3 750*	2 590
-5' 0" lbs	18,100*	18,100*	25,650*	25,650*	22,600*	14,900	16,500*	9,700	12,600*	7,000	9,700*	6,350
(1.52 m) kg	8 050*	8 050*	11 320*	11 320*	10 430*	6 930	7 620*	4 500	5 840*	3 250	4 370*	2 870
-10' 0" lbs	25,300*	25,300*	29,950*	29,200	20,950*	15,150	15,300*	9,900			11,350*	7,700
(3.05 m) kg	11 290*	11 290*	13 830*	13 590*	9 680*	7 040	7 100*	4 590			5 120*	3 470
-15' 0" lbs			23,450*	23,450*	16,550*	15,450					11,150*	10,950
(4.57 m) kg			10 940*	10 940*	7 780*	7 180*					5 050*	4 870

Radius of Load - Regular Undercarriage with Blade Up												
7' 10" (2.40 m) Arm with 18' 8" (5.70 m) Boom and 1,550 lb. (700 kg) Bucket with Power-Boost Applied												
	5' 0" (1.52 m)		10' 0" (3.05 m)		15' 0" (4.57 m)		20' 0" (6.10 m)		25' 0" (7.62 m)		Cap at Max. Reach	
	 End	 Side	 End	 Side	 End	 Side	 End	 Side	 End	 Side	 End	 Side
+30' 0" lbs					10,000*	10,000*					8,500*	8,500*
(9.14 m) kg					3 510*	3 510*					3 770*	3 770*
+25' 0" lbs					8,050*	8,050*	9,800*	9,800*			7,300*	7,300*
(7.62 m) kg					3 670*	3 670*	4 420*	4 420*			3 290*	3 290*
+20' 0" lbs					11,300*	11,300*	10,750*	10,750*	9,800*	7,600	6,900*	6,800
(6.10 m) kg					5 190*	5 190*	4 970*	4 970*	4 480*	3 540	3 130*	3 050
+15' 0" lbs			18,000*	18,000*	14,350*	14,350*	11,900*	10,800	10,750*	7,450	6,850*	5,800
(4.57 m) kg			8 430*	8 430*	6 670*	6 670*	5 510*	5 010	4 970*	3 460	3 110*	2 620
+10' 0" lbs			26,800*	26,800*	18,500*	16,000	13,900*	10,250	10,850	7,150	7,050*	5,350
(3.05 m) kg			10 110*	10 110*	8 550*	7 420	6 430*	4 760	5 050	3 330	3 200*	2 410
+5' 0" lbs					21,650*	14,900	15,000	9,750	10,550	6,900	7,500*	5,200
(1.52 m) kg					9 960*	6 910	6 970	4 520	4 910	3 200	3 400*	2 370
Ground Line lbs			17,500*	17,500*	22,850*	14,250	14,600	9,350	10,350	6,700	8,250*	5,400
kg			7 710*	7 710*	10 560*	6 610	6 780	4 340	4 810	3 100	3 750*	2 460
-5' 0" lbs	18,100*	18,100*	25,650*	25,650*	22,600*	14,150	14,450	9,200	10,350	6,650	9,350	6,050
(1.52 m) kg	8 050*	8 050*	11 320*	11 320*	10 430*	6 580	6 710	4 280	4 790	3 090	4 240	2 730
-10' 0" lbs	25,300*	25,300*	29,950*	27,800	20,950*	14,400	14,550*	9,400			11,350*	7,350
(3.05 m) kg	11 290*	11 290*	13 830*	12 940	9 680*	6 690	6 760	4 370			5 100	3 300
-15' 0" lbs			23,450*	23,450*	16,550*	14,750					11,150*	10,450
(4.57 m) kg			10 940*	10 940*	7 780*	6 860					5 050*	4 640

Lifting Capacities - ISO Ratings

Radius of Load - Long Undercarriage														
9' 8" (2.94 m) Arm with 18' 8" (5.70 m) Boom and 1,450 lb. (650 kg) Bucket with Power-Boost Applied														
	5' 0" (1.52 m)		10' 0" (3.05 m)		15' 0" (4.57 m)		20' 0" (6.10 m)		25' 0" (7.62 m)		30' 0" (9.14 m)		Cap at Max. Reach	
	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side
+30' 0" lbs (9.14 m) kg													5,650*	5,650*
													2,530*	2,530*
+25' 0" lbs (7.62 m) kg							8,850*	8,850*					4,950*	4,950*
							4,020*	4,020*					2,230*	2,230*
+20' 0" lbs (6.10 m) kg							9,850*	9,850*	8,950*	8,450			4,700*	4,700*
							4,490*	4,490*	4,080*	3,950			2,130*	2,130*
+15' 0" lbs (4.57 m) kg			10,950*	10,950*	12,300*	12,300*	10,950*	10,950*	10,050*	8,250	5,300*	5,300*	4,650*	4,650*
			5,020*	5,020*	5,700*	5,700*	5,060*	5,060*	4,670*	3,850	3,020*	2,780	2,120*	2,120*
+10' 0" lbs (3.05 m) kg			23,800*	23,800*	17,100*	17,100*	13,200*	11,400	11,100*	7,950	7,950*	5,800	4,850*	4,850*
			11,030*	11,030*	7,950*	7,950*	6,100*	5,290	5,110*	3,700	4,040*	2,710	2,190*	2,190*
+5' 0" lbs (1.52 m) kg			21,000*	21,000*	20,850*	16,700	15,150*	10,800	12,100*	7,650	8,700*	5,650	5,150*	5,150*
			8,910*	8,910*	9,670*	7,760	7,010*	5,020	5,620	3,550	4,230	2,640	2,330*	2,330*
Ground Line lbs kg			19,400*	19,400*	22,750*	15,900	16,400*	10,350	11,900	7,400	6,800*	5,550	5,700*	5,500
			8,530*	8,530*	10,510*	7,380	7,580*	4,810	5,530	3,440	3,890*	2,590	2,580*	2,490
-5' 0" lbs (1.52 m) kg	16,250*	16,250*	24,800*	24,800*	22,850*	15,600	16,550	10,150	11,750	7,300			6,650*	6,000
	7,350*	7,350*	10,960*	10,960*	10,550*	7,250	7,680*	4,700	5,470	3,380			3,000*	2,720
-10' 0" lbs (3.05 m) kg	22,350*	22,350*	32,050*	30,800*	21,850*	15,750	16,000*	10,200	11,650*	7,450			8,400*	7,100
	10,000*	10,000*	14,760*	14,150	10,090*	7,310	7,400*	4,740	5,480	3,450			3,770*	3,200
-15' 0" lbs (4.57 m) kg	32,300*	32,300*	26,700*	26,700*	18,650*	16,150	13,050*	10,600					11,050*	9,500
	14,330*	14,330*	12,410*	12,410*	8,690*	7,500	6,180*	4,920					5,010*	4,240

Radius of Load- Long Undercarriage														
7' 10" (2.40 m) Arm with 18' 8" (5.70 m) Boom and 1,550 lb. (700 kg) Bucket with Power-Boost Applied														
	5' 0" (1.52 m)		10' 0" (3.05 m)		15' 0" (4.57 m)		20' 0" (6.10 m)		25' 0" (7.62 m)		Cap at Max. Reach			
	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side
+30' 0" lbs (9.14 m) kg					10,000*	10,000*							8,500*	8,500*
					3,510*	3,510*							3,770*	3,770*
+25' 0" lbs (7.62 m) kg					8,050*	8,050*	9,800*	9,800*					7,300*	7,300*
					3,670*	3,670*	4,420*	4,420*					3,290*	3,290*
+20' 0" lbs (6.10 m) kg					11,300*	11,300*	10,750*	10,750*	9,800*	8,200			6,900*	6,900*
					5,190*	5,190*	4,970*	4,970*	4,480*	3,840			3,130*	3,130*
+15' 0" lbs (4.57 m) kg			18,000*	18,000*	14,350*	14,350*	11,900*	11,600	10,750*	8,050	6,850*	6,300	6,850*	6,300
			8,430*	8,430*	6,670*	6,670*	5,510*	5,380	4,970*	3,750	3,110*	2,850	3,110*	2,850
+10' 0" lbs (3.05 m) kg			26,800*	26,800*	18,500*	17,350	13,900*	11,150	11,650*	7,800	7,050*	5,800	7,050*	5,800
			10,110*	10,110*	8,550*	8,040	6,430*	5,170	5,350*	3,620	3,200*	2,640	3,200*	2,640
+5' 0" lbs (1.52 m) kg					21,650*	16,300	15,650*	10,600	12,000	7,500	7,500*	5,700	7,500*	5,700
					9,960*	7,570	7,230*	4,920	5,580	3,490	3,400*	2,590	3,400*	2,590
Ground Line lbs kg			17,500*	17,500*	22,850*	15,650	16,550*	10,200	11,800	7,300	8,250*	5,950	8,250*	5,950
			7,710*	7,710*	10,560*	7,270	7,640*	4,740	5,480	3,390	3,750*	2,690	3,750*	2,690
-5' 0" lbs (1.52 m) kg	18,100*	18,100*	25,650*	25,650*	22,600*	15,550	16,500	10,100	11,750	7,250	9,700*	6,600	9,700*	6,600
	8,050*	8,050*	11,320*	11,320*	10,430*	7,240	7,620*	4,680	5,460	3,370	4,370*	2,980	4,370*	2,980
-10' 0" lbs (3.05 m) kg	25,300*	25,300*	29,950*	29,950*	20,950*	15,800	15,300*	10,300					11,350*	8,000
	11,290*	11,290*	13,830*	13,830*	9,680*	7,340	7,100*	4,760					5,120*	3,600
-15' 0" lbs (4.57 m) kg			23,450*	23,450*	16,550*	16,050							11,150*	11,150*
			10,940*	10,940*	7,780*	7,450*							5,050*	5,050

Bucket Sizes

Bucket Type	SAE Heaped Capacity (yd ³) (m ³)		Width Outside Lip (in) (mm)		Bucket Weight (lbs) (kg)		Number of Teeth	No Blade		Blade Up	
								Arm Length		Arm Length	
								9' 8" 2.94 m	7' 10" 2.40 m	9' 8" 2.94 m	7' 10" 2.40 m
STDP Standard duty plate	0.65	0.50	24	610	1151	522	4	H	H	H	H
	0.87	0.67	30	762	1265	574	4	H	H	H	H
	1.09	0.83	36	914	1433	650	5	H	H	H	H
	1.31	1.00	42	1067	1570	712	5	H	H	M	H
	1.53	1.17	48	1219	1687	765	5	M	M	M	M
	1.75	1.34	54	1372	1853	841	6	L	M	L	L
HDP Heavy duty plate	0.64	0.49	24	610	1392	631	3	H	H	H	H
	0.85	0.65	30	762	1592	722	4	H	H	H	H
	1.07	0.82	36	914	1794	814	5	H	H	H	H
	1.29	0.99	42	1067	1954	886	5	H	H	M	H
	1.51	1.15	48	1219	2114	959	5	M	M	L	M
	1.72	1.32	54	1372	2315	1050	6	L	M	L	L
XDP Extreme duty plate	0.64	0.49	24	610	1549	703	3	H	H	H	H
	0.85	0.65	30	762	1769	802	4	H	H	H	H
	1.07	0.82	36	914	1933	877	4	H	H	H	H
	1.29	0.99	42	1067	2152	976	5	M	H	M	H
	1.51	1.15	48	1219	2316	1051	5	M	M	L	M
	1.72	1.32	54	1372	2536	1150	6	L	L	L	L
POWER HDP for use with ESCO multi-pin grabber only	0.61	0.47	24	610	1956	887	4	H	H	H	H
	0.80	0.61	30	762	2102	953	5	H	H	H	H
	0.99	0.76	36	914	2287	1037	5	H	H	H	H
	1.18	0.90	42	1067	2433	1104	5	H	H	M	H
	1.38	1.06	48	1219	2578	1169	5	M	M	L	M
DITCH	1.08	0.83	60	1524	1470	667	0	H	H	H	H
	1.20	0.92	66	1676	1557	706	0	H	H	H	H
	1.32	1.01	72	1829	1648	748	0	H	H	M	H

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

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

Standard and Optional Equipment

CAB		UNDERCARRIAGE	
12V Power Outlet	✓	600 mm rubber shoes (23.6 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	✓	800 mm shoes (31.5 in) 3-Bar Steel	●
Ashtray	✓	Steps	✓
Auxiliary Switches on Control Lever	✓	Carbody Belly Pan (swivel guard)	✓
Cab Exterior Light Harness	✓	Center Track Guide (single)	✓
Cab Filter - External	✓	Center Track Guide (triple)	●
Cab Handrails	✓	Regular Undercarriage with Blade	●
Cab Interior Light	✓	Long Undercarriage	●
Cab Lights	●	Sealed Link Chain	✓
Cab Iso-Mounts	✓	Strutted Track Chain	✓
Clear Roof Window	✓	X-Pattern Carbody	✓
Climate Control A/C and Heater	✓		
Cup Holder	✓	UPPERSTRUCTURE	
Defroster	✓	Belly Pans	✓
Digital Clock	✓	Center Cover (Over Main CV)	✓
ECO Gauge	✓	Fuel Tank Belly Pan	✓
Emergency Exit and Hammer	✓	Hand Rail - RH Access	✓
Face Vent	✓	Lifting Eyes for Counterweight	✓
Floor Mat	✓	Lockable Fuel Cap and Service Doors	✓
FOPS Head Guard (Level 2)	●	Rubber Bumper Guards	●
Front Guard (mesh)	●	Turntable Tub	✓
Front Guard (OPG 1,2)	●	Work Lights - Boom and Tool Box	✓
Front Window One-Touch Lock	✓	ATTACHMENT	
Gate Lock Hydraulic Activation	✓	7' 10" (2.40 m) Arm	●
Horn	✓	9' 8" (2.94 m) Arm	●
Hot & Cool Box	✓	18' 8" (5.70 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 with Switch Activation	●
Air Filter - Double Element	✓	Single-Acting Auxiliary with Pedal Activation	●
Air Filter Restriction Indicator	✓	Thumb Auxiliary with Switch Activation	●
Auto Warm-Up System	✓	Multi-Function Auxiliary with	
Auto-Idle	✓	Switch Activation	●
Auto-Idle Engine Shutdown	✓	Secondary Auxiliary with Switch Activation	●
CEGR - Cooled Exhaust Gas Recirculation	✓	Combination Auxiliary with Switch Activation	●
		Combination Auxiliary with in-cab pressure setting control	●

Equipment Key
 Standard ✓ Optional ●