SAE Net Horsepower: 112 HP (83 kW)
Operating Weight: 38,400 lbs. (17,400 kg)
Digging Depth: 19 ft 11 in (6.06 m)
Link-Belt 160 X4 Series excavators are built to exceed your expectations. We redesigned the control spools and incorporated spool stroke control (SSC) functions into the hydraulic system to reduce pressure loss and distribute hydraulic oil more smoothly, improving cycle times by up to 5%. Expect more power and fuel efficiency, thanks to an innovative Final Tier 4 engine that delivers up to 6% better fuel consumption, without a Diesel Particulate Filter (DPF) to maintain or replace! Settle in to the roomiest, most accommodating cab in its class, with more legroom and a new high-back, heated seat for shift-long comfort. Daily maintenance is a snap, with ground-level access to all service points, easily opened by hand.
Innovation and Attention to Details at Every Level

- Three power modes (Speed Priority, Heavy and Applied Power) let you choose the best blend of power, precision and fuel savings for the work you’re doing

- EPA Final Tier 4 engine is fuel efficient without sacrificing power

- No DPF to ever worry about!

- 2-3% DEF (Diesel Exhaust Fluid) consumption rate relative to fuel consumption, combined with one of the largest DEF tank capacities lets you work long hours between refills

- Ground level access to routine service points lets you cut daily maintenance down to just minutes

- Quiet, pressurized cab offers excellent visibility and comfortable, best-in-class seating

- Enough floor space to accommodate the largest of work boots, with cup holders and roomy storage compartments for cell phones, snacks and other personal items

- Dual cab working lights are standard, or choose optional LEDs for added visibility

- Ergonomic joysticks fit your hand perfectly

- 7” high-definition LCD monitor keeps you connected to your machine and work environment

- RemoteCARE® telematics keeps a watchful eye on performance, maintenance intervals and theft deterrence

- Full-time, rear-view camera display is standard; add the WAVES™ option for a seamless 270° view around the machine

- Structural improvements to the boom and arm reduce stress and provide greater durability

- Robust undercarriage features larger track rollers and thicker plating for longer life

- Unique side-frame design reduces dirt accumulation and is easier to clean

*All improvements and percentage increases are in reference to Link-Belt X3 Series excavators, unless otherwise stated*
Greater digging power and increased lift capacities are the result of our innovative Spool Stroke Control (SSC) system, which reduces pressure loss and distributes hydraulic oil more smoothly. Pilot pressure sensors detect the type of work being done—such as digging or leveling—and then relays that data to proportional solenoid valves that quickly determine where optimal hydraulic pressures should be directed for that operation.

Two electronically-controlled Kawasaki variable-displacement axial-piston pumps and one Kawasaki gear pump assure that hydraulic power is delivered precisely when and where it’s needed. At the same time, hydraulic flows in noncritical areas of the system are reduced.

The result is better breakout force, more lifting strength and faster machine response. You’ll dig, swing and dump quicker than ever before... with up to 5% faster cycle times and improved fuel efficiency!

- Proprietary hydraulic system
- Electronically-controlled pumps for improved cycle times, quicker response and more efficient machine operation
- Move more dirt per gallon of fuel
The X4 Series features innovative EPA-certified Final Tier 4 engines from Isuzu that strike the ultimate balance between power, productivity and fuel efficiency. You’ll experience up to 6% improved fuel efficiency, without having to worry about costly diesel particulate filters (DPF) to maintain or replace. Three engine modes provide reliable power and control for any machine application. Choose Speed Priority (SP mode) to get jobs done quickly, Heavy (H mode) for the best blend of power and fuel savings or Applied Power (A mode), with 13 different RPM settings for precise control of heavy lifting, fine grading or leveling work.

- EPA-certified Tier 4 Final
- No DPF to maintain
- Up to 6% improved fuel economy
- 500-hr. fuel filters service intervals
- 9 diesel tank refills per 1 diesel exhaust fluid (DEF) refill
- 2-3% DEF consumption rate relative to fuel consumption
- Two-stage DEF anti-freeze system for protection in harsh operating conditions
- 30 hrs. between auto SCR regenerations, only takes 5-8 minutes to complete!
- VGT (Variable Geometry Turbocharger)
Power and Efficiency Without Compromise
The X4 Series offers one of the most advanced and roomiest cabs in its class. Comfortable, automotive-grade high-back seat with head rest provides superior lumbar back support. With a longer and wider seating surface, it reclines to a 155° maximum reclining angle to create a relaxed environment during breaks. Air-suspension seat is standard with tilting adjustment and seat heaters available as options.

The cab layout also includes ergonomically-designed arm rests that move with console, maintaining a constant distance between joysticks and arm rests no matter how the seat is adjusted.

- Quiet, pressurized cab
- Joysticks with easy-to-hold grip and switches
- Convenient ‘radio mute’ and one touch wiper switch on joysticks
- Optional proportional joysticks w/auxiliary hydraulics control
- Cup holder and storage areas for cell phones and other small items
- Dual halogen cab lights standard
- Full time rear camera display
- Optional RH & LH side cameras
- ROPS and FOPS Level 1 certified, optional FOPS Level 2 head guard available
- Optional LED lights use less energy and are 3X brighter!
- Optional retractable rear window shade
- Optional front sun visor
- Improved radio with USB port and Bluetooth for hands-free communication.
High-Definition LCD monitor has a full-color 7” display that rivals the resolution found in luxury automobiles. Controls are easy to read and easy to use. The rear-view camera activates automatically whenever the machine is started, and sight guidelines have been added for increased safety.

- Anti-glare coating on screen
- Track up to 14 service maintenance reminders
- System/machine warning messages
- Easy-to-use auto idle and auto shutdown feature
- Select and set up attachments: 5 presets for breakers; 5 presets for crushers
- In-cab flow and pressure controls for auxiliary hydraulics
- Anti-theft system
- Auto-adjusts for time and calendar
- 24 languages available
- Ability to view fuel consumption

For the ultimate in visibility, X4 machines can be fitted with the Wide Angle Visual Enhancement System - or WAVES for short. Using three closed-circuit cameras, this optional viewing system provides an unbelievable 270° visual coverage around the machine, eliminating any potential blind spots from the operator’s line of sight. WAVES images can be displayed on the standard X4 monitor.
Maintenance is a snap, with ground level access to all routine service points, including batteries, fuel filters, engine oil filter, dual-element air filter and cab fresh air filter.

- Radiator screens are easy to remove and clean from ground level...no tools needed!
- A/C Condenser tilts for easy cleaning and maintenance
- Easy battery compartment access; 2 hand-turn knobs
- Improved battery disconnect switch with no keys needed
- Convenient ground-level sample ports in pump compartment
- Green drain plug and hose
- More data collection points

- Automatic door locking mechanism on side door
- Quick and easy access to grease all attachment pivot points
- Grease cylinder track adjusters make adjusting track tension a breeze
- New undercarriage side frame design enables easier cleaning
- In-cab reminders track 14 different maintenance procedures
RemoteCARE® lets you remotely monitor and track machine location, operational performance, working status and periodic maintenance requirements - now at no cost to you. It tracks and records both routine and major service intervals for your machines, giving you more flexibility and control when scheduling maintenance procedures. It also lets you be more proactive if potential failure conditions arise; whenever a diagnostic trouble code (DTC) is detected, a warning message appears on the machine display, and an e-mail alert is automatically sent to you. RemoteCARE also assists in theft prevention by offering 24/7 surveillance and geofencing capabilities.

**FREE Subscription Includes:**
- 24/7 Remote Monitoring and Security
- Machine Location
- Geo-fence & Curfew Range
- Actual Fuel Consumption
- Fuel Levels
- Hour Meter Reading
- Radiator Water Temperature
- Machine Working Time/Idle Time
- Attachment Working Hours
- Working Modes
- Service Maintenance Reminders
- Service Warnings

**RemoteCARE® App**

Manage your Link-Belt equipment with this user friendly telematics management tool with GPS technology. The RemoteCARE App provides timely and reliable machine utilization – as well as assisting in DTC notifications. With RemoteCARE you will be able to remotely monitor and track your machine’s location, operational performance, and working status. Contact your local Link-Belt dealer for questions.

**App features include...**
- Machine location
- Fuel consumption
- Utilization report
- Fuel efficiency
- Analytical snapshots
- Idle rate
- DTC notification history
- Favorite list

Download Apple or Android app at lbco.com/apps for phone and tablet.
**Built Strong to Handle Anything**

X4 machines are more rugged and durable, with robust structural improvements to the boom & arm structures, along with improvements to lower frame and travel components.

**Boom & Arm**
- Improved boss shapes reduce stress on boom and arm pin
- Cast boom tip for increased reliability

**Lowers**
- Thicker travel motor case - 32% increase
- 9% more stroke recoil spring
- 50% wider idler hub
- Unique side-frame design reduces dirt accumulation and is easier to clean.

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**Customer Support is Just a Call Away**

A network of Link-Belt Excavator dealers across the U.S. and Canada is waiting to serve you. Expect fast and dependable service, backed by 24/7 access to parts.

**Exceptional Warranty Coverage**

All X4 excavators purchased after July 1, 2020 are backed by a 5-year/5,000-hour Full Machine Warranty, 5-year/10,000-hour Structural Warranty, along with participation in the X4 Fluid Analysis Program for the duration of the warranty (free with all X4 machines). Extended warranty coverage packages are also available.

Contact your dealer for complete details.
**Specifications**

**Engine**

Isuzu AR-4JJ1X Final Tier 4 turbocharged diesel engine with electronic control (ECM) and high pressure common-rail fuel injection, 4-cylinder, water-cooled, Exhaust Gas Recirculation (EGR), Intercooler, Variable-Geometry Turbocharger (VGT), Diesel Oxidation Catalyst (DOC) and Selective Catalytic Reduction (SCR) system with Dosing Control Module and heated DEF lines and tank. Electronic fuel pump and priming, Fuel cooler, Auto-idle start, Auto warm-up, EPF engine protection, dual-stage fuel filtration, remote oil filter, engine oil sample port, green plug oil drain, double element air filter.

SAE J 1349 net horsepower.........................112 hp (83.2 kW) @ 2,200 rpm
Displacement .................................................183 cu in (2.9 L)
Maximum Torque.............................................257 lbf-ft (349 Nm) @ 1,800 rpm
Starter ..............................................................24V-5.0kW
Alternator..........................................................50 amp
Battery ..............................................................(2) 12-volt 72 amp hours

**Cab and Controls**

ROPS and FOPS Level 1 certified with automatic climate control A/C and heat with defroster, 7” LCD Hi-Definition color monitor with full time rear view camera display, fuel efficiency gauge, low-effort joysticks are pre-wired for auxiliary hydraulics, dual cab lights, control pattern changer, safety glass windows, sunroof with sunshade, shockless cab suspension with four fluid cab mounts, SCM High-Back reclining air-suspension seat, sliding 4-position tilting control consoles, Bluetooth technology, AM/FM sound system with USB and MP3 auxiliary input jack, digital clock, dome light, seat belt, coat hook, cup holder, storage compartments, floor mat, footrests, ashtray, 24V cigarette lighter, 12V outlet, travel alarm, handrails, mirrors, side-entry cab filter, spare parts kit.

Three selectable work modes, RemoteCARE Telematics GPS system, anti-theft password protection system, onboard 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.

**Hydraulic System**

Open-center system, two variable-displacement electronically controlled 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, anti-drift valves, 6 micron return filter, firewall, hydraulic oil sample port.

Hydraulic Pumps
- Pump Output .................................................2 x 37.5 gpm (142 L/min)
- Pilot Pump Maximum Flow .........................5.8 gpm (22 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 .............................................4,050 psi (27.9 MPa)
- Travel Circuit .............................................4,970 psi (34.3 MPa)

Hydraulic Cylinders
- number of cylinders - bore x stroke
  - Boom .........................................................2 - 4.5” x 46.4”
  - (115 mm x 1,179 mm)
  - Arm .........................................................1 - 4.9” x 50.4”
  - (125 mm x 1,280 mm)
  - Bucket ......................................................4.1” x 38.8”
  - (105 mm x 985 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 .........................................................11.5 rpm
- Tail Swing .........................................................8 1/2’(2.47 m)
- Swing Torque .....................................................33,300 lbf-ft (45.1 kN)*

**Undercarriage**

X Pattern cab body with 13’ 1”(3.99 m) LC long undercarriage by 6’ 6”(1.99 m) track gauge, Sealed and strunged 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 ....................................................7 per Side
- Track Link Pitch ..............................................7.48” (190 mm)
- Shoes ..............................................................44 per Side
- Shoe Width ......................................................23.6” (600 mm)
- Ground Pressure ...............................................5.95 psi (0.041 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.

- Travel Speeds ......................................................1.7 - 3.4 mph (2.8 - 5.4 km/h)
- Drawbar Pull ....................................................36,100 lbf (160 kN)
- Gradeability .....................................................70% (35°)

**Attachment**

- Boom ...............................................................16’ 11” (5.15 m)

Available Arms
- Digging Force
  - 6’ 7” (2.02 m) ...........................................17,800 lbf (79 kN)
  - with Auto Power Boost .................................18,800 lbf (84 kN)
  - 10’ 0” (3.05 m) ...........................................16,200 lbf (72 kN)
  - with Auto Power Boost .................................17,300 lbf (77 kN)
  - Bucket Digging Force .........................................25,200 lbf (112 kN)
  - with Auto Power Boost .......................................26,500 lbf (118 kN)

**Lubricant & Coolant Capacity**

- Fuel Tank .........................................................79 Gallons (300.0 Liters)
- Hydraulic System .............................................44 Gallons (167.0 Liters)
- Hydraulc Tank ..................................................22 Gallons (82.0 Liters)
- Final Drive (per side) ........................................1.5 Gallons (5.8 Liters)
- Swing Drive .....................................................1.3 Gallons (4.8 Liters)
- Engine Oil .......................................................4.5 Gallons (17.0 Liters)
- DEF Tank ........................................................22 Gallons (85.0 Liters)
- Coolant System ................................................4.7 Gallons (17.8 Liters)

**Operating Weight**

Working weight with 23.6” (600 mm) shoes, 16’ 11” (5.15 m) boom, 8’ 7” (2.62 m) arm, 1,067 lb. (484 kg) bucket, 6,980 lb. (3 170 kg) counterweight ..........38,400 lbs. (17 400 kg)
Machine Equipped with 16’ 11” (5.15 m) Boom

<table>
<thead>
<tr>
<th></th>
<th>Arm 8’ 7” (2.62 m)</th>
<th>Arm 10’ 0” (3.05 m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Maximum reach</td>
<td>29’ 8” (9.04 m)</td>
<td>30’ 9” (9.36 m)</td>
</tr>
<tr>
<td>B. Maximum reach @ ground level</td>
<td>29’ 1” (8.87 m)</td>
<td>30’ 3” (9.22 m)</td>
</tr>
<tr>
<td>C. Maximum dig depth</td>
<td>19’ 11” (6.06 m)</td>
<td>21’ 4” (6.49 m)</td>
</tr>
<tr>
<td>D. Maximum dig height</td>
<td>30’ 4” (9.24 m)</td>
<td>30’ 6” (9.29 m)</td>
</tr>
<tr>
<td>E. Maximum dump height</td>
<td>21’ 5” (6.61 m)</td>
<td>21’ 11” (6.69 m)</td>
</tr>
<tr>
<td>F. Digging depth 8’ (2.44 m) level bottom</td>
<td>19’ 2” (5.85 m)</td>
<td>20’ 8” (6.29 m)</td>
</tr>
<tr>
<td>G. Bucket rotation</td>
<td>178”</td>
<td>178”</td>
</tr>
<tr>
<td>H. Maximum vertical wall depth</td>
<td>16’ 8” (5.08 m)</td>
<td>17’ 2” (5.22 m)</td>
</tr>
</tbody>
</table>

Dimensions

Machine equipped with:

1. 8’ 7” (2.62 m) Arm
2. 10’ 0” (3.05 m) Arm
### Lift Capacities

**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.”

### Radius of Load

**8’ 7” (2.62 m) Arm with 16’ 11” (5.15 m) Boom and 1,050 lb. (480 kg) Bucket with Power-Boost Applied**

<table>
<thead>
<tr>
<th>End Side</th>
<th>5’ 0” (1.5 m)</th>
<th>10’ 0” (3.0 m)</th>
<th>15’ 0” (4.5 m)</th>
<th>20’ 0” (6.0 m)</th>
<th>25’ 0” (7.5 m)</th>
<th>Cap at Max. Reach</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>End Side</td>
<td>End Side</td>
<td>End Side</td>
<td>End Side</td>
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<tr>
<td>+25’ 0” lbs</td>
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<td>5,150*</td>
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<tr>
<td>(7.5 m) kg</td>
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<td>2,610*</td>
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<tr>
<td>+20’ 0” lbs</td>
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<td>7,100*</td>
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<tr>
<td>(6.0 m) kg</td>
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<td>3,250*</td>
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<tr>
<td>+15’ 0” lbs</td>
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<td></td>
<td></td>
<td>9,150*</td>
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<tr>
<td>(4.5 m) kg</td>
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<td>4,270*</td>
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<tr>
<td>+10’ 0” lbs</td>
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<td>+5’ 0” lbs</td>
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<td>21,300*</td>
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<tr>
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<td>8,900*</td>
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<tr>
<td>Ground Line lbs</td>
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<td></td>
<td>17,200*</td>
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<tr>
<td>(1.5 m) kg</td>
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<td></td>
<td>5,900*</td>
</tr>
<tr>
<td>-5’ 0” lbs</td>
<td>13,400*</td>
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<td>6,060*</td>
<td>9,650*</td>
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<td>12,550*</td>
<td>15,140*</td>
<td>11,450*</td>
<td>9,200*</td>
<td>4,370*</td>
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</table>

**Radius of Load**

**10’ 0” (3.05 m) Arm with 16’ 11” (5.15 m) Boom and 950 lb. (440 kg) Bucket with Power-Boost Applied**

<table>
<thead>
<tr>
<th>End Side</th>
<th>5’ 0” (1.5 m)</th>
<th>10’ 0” (3.0 m)</th>
<th>15’ 0” (4.5 m)</th>
<th>20’ 0” (6.0 m)</th>
<th>25’ 0” (7.5 m)</th>
<th>Cap at Max. Reach</th>
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<tr>
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<td>3,060*</td>
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<tr>
<td>+15’ 0” lbs</td>
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<tr>
<td>(4.5 m) kg</td>
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<tr>
<td>+10’ 0” lbs</td>
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<td>17,950*</td>
<td>28,950*</td>
<td>16,750*</td>
<td>15,000*</td>
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<td>(3.0 m) kg</td>
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<td>7,940*</td>
<td>12,850*</td>
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<tr>
<td>-15’ 0” lbs</td>
<td>28,350*</td>
<td>28,350*</td>
<td>42,600*</td>
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<tr>
<td>(4.5 m) kg</td>
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<td>17,300*</td>
<td>13,250*</td>
<td>9,200*</td>
<td>4,260*</td>
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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.”
Bucket Sizes

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<tr>
<th>Bucket Type</th>
<th>SAE Heaped Capacity (yd³)</th>
<th>Width Outside Lip (in)</th>
<th>Bucket Weight (lbs)</th>
<th>Number of Teeth</th>
<th>Arm Length 2.62 m</th>
<th>Arm Length 3.05 m</th>
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</table>

Approval Code For Arm/Bucket Combinations

- H: Heavy material (up to 6,000 lbs./yd³)
- M: Medium material (up to 3,370 lbs./yd³)
- L: Light material (up to 2,020 lbs./yd³)
- N/A: Not applicable

Litho in USA 08/20  #LBX2427 supersedes #LBX2399

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