



# Invitation To Bid (ITB)

JOHNSON COUNTY PURCHASING AGENT  
211 N. CHURCH STREET  
MOUNTAIN CITY, TN 37683  
Phone: (423) 727-7861

Requisition # 34848

Bid Name Excavator

Sealed Bids will be received by the Johnson County Purchasing Agent until the date shown below for articles specified below, and under the following conditions, unless otherwise specified by the Johnson County Purchasing Agent:

**Invitation to Bid:** QTY One (1) NEW Link-Belt Model 160X4 (or equal to specs) Excavator with Finance/Purchase Option

(Description on Page 3)

**For:** Johnson County Government – Highway Department

**Sealed Bids will be accepted until:** October 09, 2019; 2:00 PM (Using Purchasing Agent's Clock)  
A public bid opening meeting will also be held at 2:00 PM on October 09, 2019 in the Purchasing Agents Office at the address below.

If applicable to this ITB, Prices quoted must include all transportation charges, packing, and drayage. Bids must be free from alteration, or erasures, and all signatures must be hand signed in ink by individual or firm making the bid. Carefully review all sections before submission. Incomplete documents may be rejected. You may include other documentation for review inside sealed bid envelope. The Purchasing Agent/Committee and/or the Johnson County Commission, reserve the right to waive technicalities, to reject any or all bids/proposals, to request additional information from all bidders, to use any ideas presented in bids, and to negotiate with one or more of the finalists regarding terms of the engagement. Johnson County, TN intends to select the company that, in its opinion, best meets the County's needs. All documents become the property of Johnson County, TN when submitted, and will not be returned. Johnson County is not responsible for any cost related to bid submissions. For proprietary information that you may send with your bid. Please include a list of information that shall be redacted after an award is made under this bid. A copy of the awarded bid shall become part of any contract or agreement entered into by Johnson County, TN & the vendor.

**ITB Return Address for the outside of the envelope:** Johnson County Purchasing Agent  
Dustin Shearin  
211 N. Church Street  
Mountain City, TN 37683

**\*Note:** Any potential bid packages that are not plainly marked are considered VOID if mistakenly opened prior to the submission deadline.

All bids will be considered in accordance with Title VI and without regard to age, sex, color, race, creed, national origin, religious persuasion, marital status, political belief, or disability that does not prohibit the performance of duty.

**Under this ITB, your company may not offer all items or services requested. Please include a list of these omissions and any alternatives available.**



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## Basis of Award:

Bids will be evaluated based upon (but not limited to) the following criteria:

1. Delivery Timeline.
2. Pricing & Finance/Purchase Options.
3. Warranty.
4. Equipment Meets Spec Requirements.

Johnson County, TN reserves the right to conduct independent reviews and interview vendors submitting bids prior to making any selection. Johnson County, TN will make a final award based upon the best response to this request, and has the final say as to that award determination. Johnson County, TN will not be liable for any costs associated with your firm preparing its response to the Invitation To Bid.

Awarding will be made to the proposer who meets the requirements of the solicitation and has submitted the best responsive Bid. Awarding to the successful vendor is contingent upon approval by all necessary involved parties. \*\*\*Bid awarding results will be made available upon request, and in accordance to applicable state law. \*\*\*

Bids will not be considered unless accompanied by this complete signed original document.

Please feel free to call Johnson County Purchasing Agent, Dustin Shearin with any questions you may have. (423) 727-7861



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## DESCRIPTION OF GOODS/SERVICES WANTED

### **QTY One (1) NEW Link-Belt Model 160X4 (or equal to specs) Excavator with Finance/Purchase Option.**

#### **Specifications:**

Listed below are details for the respective bid items.

**SCOPE:** Furnish QTY One (1) NEW Link-Belt Model 160X4 (or equal to specs) Excavator with Finance/Purchase Option as listed in the specifications below and on the sheets attached to be delivered to the Johnson County Highway Department. Shall be furnished with all manufacturers' standard equipment as attached and in compliance with the following specification requirements. Part or Order Numbers may be different among potential dealers, but result in the same specifications. Please provide a detailed machine build spec sheet/pricing breakdown for the products that you are submitting for bid.

#### **Requirements at Minimum:**

Operating Weight 38,400 lbs.

112 HP Final Tier 4 Diesel Engine

10' Arm for Max Dig Depth up to 21' 4".

Hydraulic Thumb

42" HD Bucket

Minimum 3 Years / 3,000 hours Full Machine Warranty

Minimum 3 Years / 5,000 hours Powertrain Warranty

Minimum 3 Years / 10,000 hours Xtrastructure (or equivalent) Warranty

Please See Detailed Specifications Attached.

Include list of all pricing discounts & related charges to complete an order.



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## Alternates

1. Any alternates to specified equipment, materials, components, or workmanship must be separately listed and described in detail. Please provide detailed specs of the alternate product.
2. Alternates will be considered in awarding the contract only if they provide, as a minimum requirement, all features contained in the specifications.
3. Johnson County, TN reserves the sole right to determine through its agents the equality of alternate products or components.

## QUESTIONS

Potential bidders that have any questions relating to this documents specifications, language, verbiage, procedures, or general questions about this bid, shall send in writing by email to [purchasing@johnsoncountyttn.gov](mailto:purchasing@johnsoncountyttn.gov) those detailed questions to be answered. Questions shall be sent and received by the Purchasing Agent no later than October 04, 2019 at 2:00 PM. Questions will be answered and sent to all interested parties for review, and not limited to the original requester. Johnson County is not responsible for unreceived emails. Questions that result in changes to these bid documents or any specs must be completed no later than 72 business hours prior to final bid cutoff time of October 09, 2019 at 2:00PM.

## BID PROTEST

Any protest concerning the award of this bid shall be addressed to the Purchasing Agent. Protest shall be made in writing to the Purchasing Agent and shall be filed within seven (7) days after the intended award is announced. A protest is considered filed when received by the Purchasing Agent. The written protest shall include the name and address of the protestor, identification of the procurement, a statement of the specific reasons for the protest and supporting exhibits. The submitted information will be reviewed with the appropriate Department Head and County Attorney to render a final decision and a formal response provided within seven days. This decision relative to the protest shall be considered final.

## DISPUTES

Should disputes, alternatives or other disagreements related to the performance of the work herein described arise between the county and the provider, the parties hereto shall negotiate in good faith in an attempt to resolve same. Such negotiations shall take precedence to any remedy at law.

## COMPETITION INTENDED

It is the intent of Johnson County, TN that this ITB permit competition. It shall be the bidder's responsibility to advise the Purchasing Agent in writing if any language, requirement, specification, etc., or any combination thereof, inadvertently restricts or limits the requirements stated in the ITB to a single source. Such notification shall be received by the Purchasing Agent no later than five (5) business days prior to the date set for deadline of the acceptance of all bids.



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### **REJECTION OF BIDS**

The right is reserved by the county at its discretion to reject any or all bids or parts thereof, at any time. The county reserves the right to waive defects or informalities, to negotiate with bidders and to accept the bid deemed in the best interest of the county.

### **COMPLIANCE WITH LAWS**

The service provider shall at all times observe and comply with all Federal, State and local laws, ordinances and regulations which may in any manner affect the performance of this agreement

### **FEEDBACK**

The Johnson County Purchasing Agent reviews any and all feedback or suggestions anyone reviewing these solicitation documents may be willing to provide. Critical feedback or suggestions is an integral part of creating understandable bid documents. Please feel free to include in your bid package, or send by mail, a separate page stating these types of items that may help with future bids. We thank you for your time in doing so.

## **BID: QTY One (1) NEW Link-Belt Model 160X4 (or equal to specs) Excavator with Finance/Purchase Option.**

**Base Bid Price Per Machine (Includes all Purchase Costs for Delivery & Ownership):**

\$ \_\_\_\_\_

(Please provide a detailed machine build spec sheet/pricing breakdown for the products that you are submitting for bid.)

**Date Bid is valid until** \_\_\_\_\_

**Finance Option – Please provide available finance terms, interest rates, all associated fees, and end of term buy out options. (Please include separate information as needed to detail this option.)**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Please list the delivery time from date of order:**

\_\_\_\_\_

\_\_\_\_\_  
**Representatives Signature**

\_\_\_\_\_  
**Date**



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## Vendor Contact Information

Company Name: \_\_\_\_\_

Company Mailing Address: \_\_\_\_\_

\_\_\_\_\_

### Primary Contact Information:

### Secondary Contact (If Applicable):

Name \_\_\_\_\_

Name \_\_\_\_\_

Phone # \_\_\_\_\_

Phone # \_\_\_\_\_

CONFLICT OF INTEREST (ACCORDING TO: T.C.A. 5-14-114) - No member of County of Johnson Legislative body, and no other officer, employee, or agent of the County of Johnson who exercises any functions or responsibilities in connection with the carrying out of the Project to which this Contract pertains, shall have any personal interest in, and/or receive any monies or anything of value directly or indirectly from this Contract.

IRAN DIVESTMENT ACT – By submission of this proposal, each proposal and each person signing on behalf of any vendor certifies, and in the case of a joint proposal each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each vendor is not on the list created pursuant to T.C.A. 12-12-106.

NON-COLLUSION AFFIDAVIT – The agent of the vendor hereby certifies to the best of his/her knowledge and belief that this proposal to Johnson County, TN has not been prepared in collusion with any other seller of similar products. The agent also certifies that the prices, terms and conditions of said proposal have not be communicated by the undersigned, nor by any employee or agent of the vendor, to any other seller of similar products and will not be communicated to any such seller prior to the official opening of said proposal.

The undersigned firm or individual(s), understands the above specifications, conditions, and terms as described. The undersigned proposes to follow all conditions set forth in this document, to furnish and deliver to the place designated, the named supplies/services at the prices quoted within the bid on Page 5, same to be charged to Johnson County. We guarantee all the above named goods/services to be in accordance with specifications or equal.

\_\_\_\_\_  
(Printed Name)

\_\_\_\_\_ Date: \_\_\_\_\_  
(Authorized Signature)

(AFFIX NOTARY SEAL)

My Commission Expires \_\_\_\_\_

Signature \_\_\_\_\_

# 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, Cooled Exhaust Gas Recirculation (CEGR), 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" LED 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 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.

Sound Level - Cab Interior.....	68.3 dB(A)
Sound Level - Exterior.....	99.4 dB(A)

## 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, boom and arm holding 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 rod x stroke
Boom.....	2 - 4.5" x 3.1" x 46.4" (115 mm x 80 mm x 1,179 mm)
Arm.....	1 - 4.9" x 3.5" x 50.4" (125 mm x 90 mm x 1,280 mm)
Bucket.....	4.1" x 2.9" x 38.8" (105 mm x 75 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" (2.47 m)
Swing Torque.....	33,300 lbf-ft (45.1 kNm)

## Undercarriage

X Pattern carbody with 13' 1" (3.99 m) LC long undercarriage by 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.....	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)
<b>Available Arms</b>	<b>Digging Force</b>
• 8' 7" (2.62 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)

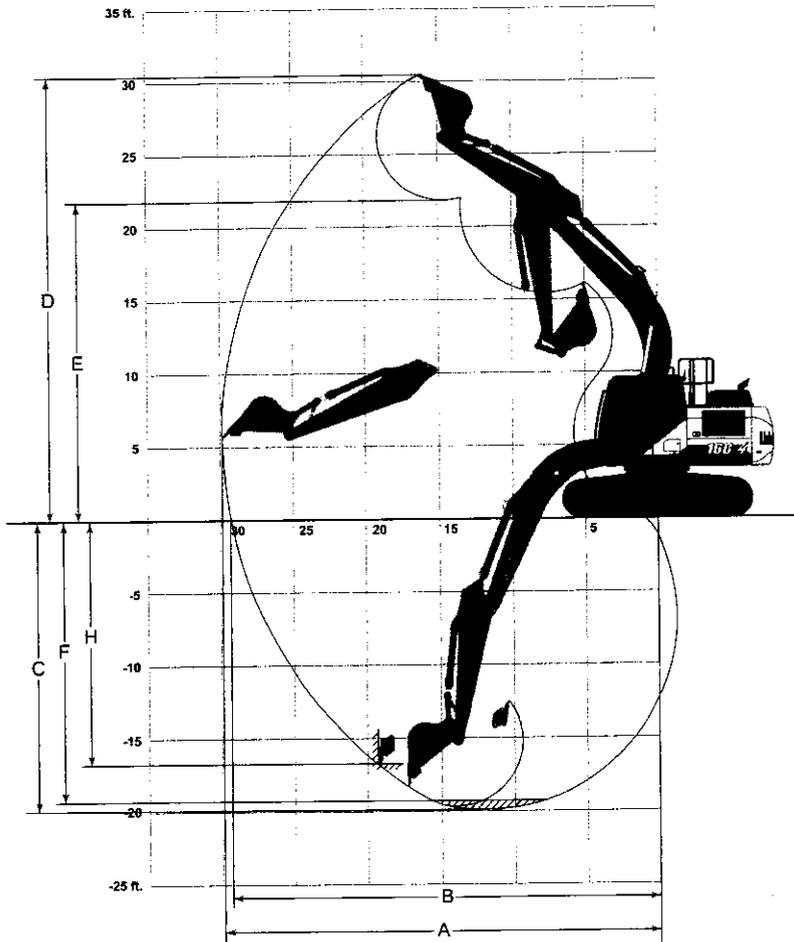
## Lubricant & Coolant Capacity

Fuel Tank.....	79 Gallons (300.0 Liters)
Hydraulic System.....	44 Gallons (167.0 Liters)
Hydraulic 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

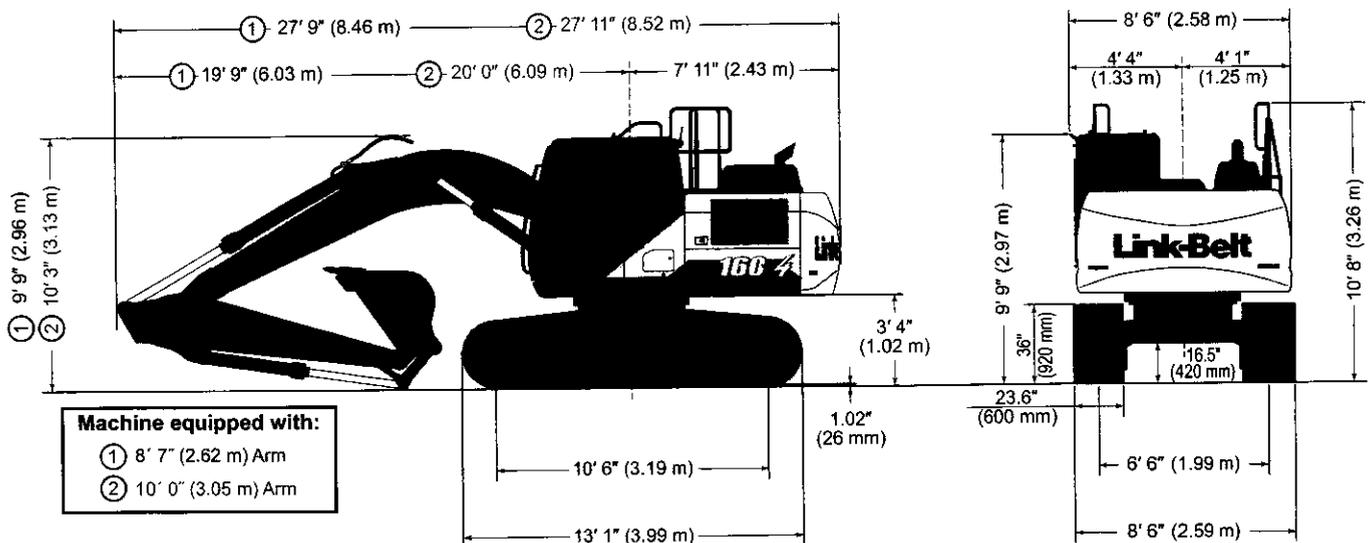
Working weight with 23.6" (600 mm) shoes, 16' 11" (5.15 m) boom, 8' 7" (2.62 m) arm, 1,067 lb. (484 kg) bucket, 6,980 lb. (3 170 kg) counterweight.....	38,400 lbs. (17 400 kg)
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# WORKING RANGE & TRAVEL DIMENSIONS



Machine Equipped with	Arm 8' 7" (2.62 m)	Arm 10' 0" (3.05 m)
A. Maximum reach	29' 8" (9.04 m)	30' 9" (9.43 m)
B. Maximum reach @ ground level	29' 1" (8.87 m)	30' 3" (9.22 m)
C. Maximum dig depth	19' 11" (6.06 m)	21' 4" (6.49 m)
D. Maximum dig height	30' 4" (9.24 m)	30' 6" (9.29 m)
E. Maximum dump height	21' 8" (6.61 m)	21' 11" (6.69 m)
F. Digging depth 8' (2.44 m) level bottom	19' 2" (5.85 m)	20' 8" (6.29 m)
G. Bucket rotation	178°	178°
H. Maximum vertical wall depth	16' 8" (5.08 m)	17' 2" (5.22 m)

## Travel Dimensions



# LIFT CAPACITIES

		Radius of Load											
End	Side	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							5,150*	5,150*			3,600*	3,600
(7.5 m)	kg							2 610*	2 610*			1 620*	1 620
+20' 0"	lbs							7,100*	7,100*			3,250*	3,250
(6.0 m)	kg							3 250*	3 250*			1 480*	1 480
+15' 0"	lbs							9,150*	6,950	6,700*	4,700	3,150*	3,150
(4.5 m)	kg							4 270*	3 240	3 210*	2 180	1 440*	1 440
+10' 0"	lbs			18,500*	18,500*	13,350*	10,450	10,400	6,600	7,200	4,500	3,250*	3,250
(3.0 m)	kg			8 560*	8 560*	6 190*	4 840	4 830	3 060	3 350	2 100	1 470*	1 470
+5' 0"	lbs			21,300*	17,700	15,950	9,600	10,000	6,200	7,000	4,300	3,450*	3,400
(1.5 m)	kg			8 900*	8 200	7 410	4 460	4 640	2 880	3 250	2 000	1 560*	1 540
Ground	lbs			17,200*	16,450	15,250	9,000	9,650	5,900	6,800	4,150	3,850*	3,500
Line	kg			7 530*	7 530*	7 100	4 190	4 480	2 730	3 170	1 930	1 730*	1 590
-5' 0"	lbs	13,400*	13,400*	21,900*	16,750	15,000	8,800	9,500	5,750	6,800	4,150	4,550*	3,900
(1.5 m)	kg	6 060*	6 060*	9 650*	7 700	6 980	4 100	4 410	2 670	3 150	1 920	2 050*	1 780
-10' 0"	lbs	19,500*	19,500*	27,950*	17,050	15,100	8,950	9,600	5,900			6,000*	4,850
(3.0 m)	kg	8 610*	8 610*	12 920*	7 930	7 030	4 160	4 460	2 720			2 700*	2 180
-15' 0"	lbs	28,350*	28,350*	22,550*	17,650	15,100*	9,450					10,550*	7,100
(4.5 m)	kg	12 550*	12 550*	10 540*	8 210	7 100	4 370					4 430*	3 160

		Radius of Load											
End	Side	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							4,800*	4,800*			3,350*	3,350*
(7.5 m)	kg							2 220*	2 220*			1 510*	1 510*
+20' 0"	lbs							6,500*	6,500*	4,800*	4,800*	3,100*	3,100*
(6.0 m)	kg							3 060*	3 060*	2 380*	2 280	1 400*	1 400*
+15' 0"	lbs							8,400*	7,100	6,500*	4,800	3,050*	3,050*
(4.5 m)	kg							3 900*	3 310	3 050*	2 230	1 380*	1 380*
+10' 0"	lbs			16,350*	16,350*	12,200*	10,650	10,100*	6,700	7,300	4,600	3,150*	3,150*
(3.0 m)	kg			7 530*	7 530*	5 650*	4 950	4 650*	3 120	3 390	2 130	1 420*	1 420*
+5' 0"	lbs			24,100*	18,200	15,950	9,800	10,100	6,250	7,050	4,350	3,350*	3,200
(1.5 m)	kg			11 060*	8 450	7 390*	4 540	4 690	2 910	3 270	2 030	1 520*	1 450
Ground	lbs	7,250*	7,250*	19,350*	16,700	15,300	9,100	9,700	5,900	6,850	4,150	3,750*	3,300
Line	kg	3 250*	3 250*	8 450*	7 750	7 140	4 220	4 500	2 750	3 170	1 940	1 690*	1 490
-5' 0"	lbs	12,700*	12,700*	21,950*	16,550	14,950	8,750	9,450	5,700	6,750	4,100	4,450*	3,600
(1.5 m)	kg	5 710*	5 710*	9 680*	7 700	6 960	4 070	4 400	2 650	3 130	1 900	2 000*	1 640
-10' 0"	lbs	17,950*	17,950*	28,800*	16,750	15,000	8,850	9,500	5,750			5,800*	4,350
(3.0 m)	kg	7 940*	7 940*	12 850*	7 810	6 980	4 100*	4 420	2 680			2 600*	1 960
-15' 0"	lbs	28,300*	28,300*	24,600*	17,300	15,250	9,200					9,300*	6,100
(4.5 m)	kg	12 600*	12 600*	11 450*	8 050	7 110*	4 260					4 080*	2 710

## 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 & OPTIONAL EQUIPMENT

CAB		HYDRAULICS		UPPERSTRUCTURE	
12V Power Outlet.....	S	Arm Regeneration.....	S	Belly Pans.....	S
270° WAVES™ Camera System.....	O	Arm Speed Assistance (2 Pump Flow).....	S	Center Cover (Over Main CV).....	S
AM/FM Sound System.....	S	Attachment Cushion Valve.....	S	Fuel Tank Belly Pan.....	S
Anti-Theft Device.....	S	Auto Swing Priority.....	S	Hand Rail (RH access).....	S
Auxiliary Switches on Control Lever.....	S	Auxiliary Flow Control.....	S	ISO Guard Rails.....	S
Bluetooth.....	S	Auxiliary Tool Settings (Memory).....	S	Lifting Eyes for Counterweight.....	S
Cab Filter - External.....	S	Auxiliary Valve.....	S	Lockable Fuel Cap and Service Doors.....	S
Cab Handrails.....	S	Boom Regeneration.....	S	Lockable Tool Box.....	S
Cab Interior Light.....	S	Boom Speed Assistance (2 Pump Flow).....	S	Rubber Bumper Guards.....	O
Cab ISO-Mounts.....	S	Bucket Curl Assist.....	S	Turntable Tub.....	S
Cab Light (2 LED).....	O	Control Levers Pre-Wired for Auxiliary Hyd.....	S	Work Lights (Boom and Tool Box).....	S
Cab Light (2).....	S	Control Pattern Changer (2 way).....	S		
Cab Sun Screen (rear).....	O	Electronically Controlled Hydraulic Pumps.....	S	<b>ATTACHMENT</b>	
Clear Roof Window.....	S	Fire Wall.....	O	8' 7" (2.62 m) Arm.....	S
Climate Control A/C and Heater.....	S	Free Swing.....	O	10' 0" (3.05 m) Arm.....	O
Cup Holder.....	S	Holding Valve (Arm & Boom).....	S	16' 11" (5.15 m) Main Boom Section.....	S
Defroster.....	S	Hose Burst Check Valve.....	O	Auxiliary Pipe Brackets.....	S
Digital Clock.....	S	Hydraulic Filter Restriction Indicator.....	S	Boom Work Light.....	S
Emergency Exit and Hammer.....	S	Hydraulic Oil Sample Port.....	S	Bucket Anti-Clatter Device.....	S
Face Vent.....	S	Long Life Hydraulic Oil (5,000 Hour).....	S	Chrome Pins.....	S
Floor Mat.....	S	Neutral Pump De-Stroke.....	S	Easy Maintenance System (EMIS).....	S
FOPS Head Guard (Level 2).....	O	Oil Cooler.....	S	HD Bucket Linkage.....	O
FOPS Level 1 Certified.....	S	Power Boost.....	S	Quick Couplers.....	O
Front Guard (Mesh).....	O	Power Save.....	S	Remote Lube Bank.....	S
Front Guard (DPG 1,2).....	O	Pressure Reading on Monitor.....	S	Teardrop Pin Retention Keepers.....	S
Front Window One-Touch Lock.....	O	Proportional Hydraulic Controls.....	O	Thumbs.....	O
Gate Lock Hydraulic Activation.....	S	Pump Stand-By Pressure.....	S		
Horn.....	S	Straight Travel Circuit.....	S	<b>PARTS KIT</b>	
Hour Meter (Digital).....	S			Bucket Anti-Clatter Device.....	S
LED Color Monitor.....	S	<b>AUXILIARY HYDRAULIC OPTIONS</b>		Engine Manual.....	S
LED Light Kit for Side Camera (1).....	O	Single-Acting Aux. w/ Proportional Joysticks.....	O	Engine Oil Filter.....	S
LED Lights for Rear Camera (2).....	O	Multi-Function Aux. w/ in-cab pressure setting control.....	O	Filter Wrench.....	S
Magazine Storage Rack.....	S	Thumb Aux. w/ Proportional Joysticks.....	O	Fuel Filters.....	S
Maintenance Interval Reminders.....	S	Combination Aux. w/ in-cab pressure setting control.....	O	Grease Gun.....	S
MP3 Auxiliary Input Jack.....	S	<b>UNDERCARRIAGE</b>		Green Plug Drain Hose for Engine Oil Drain.....	S
On-Board Diagnostic System.....	S	600 mm (23.5" in) 3-Bar Steel Grousers.....	O	Hydraulic Return Filter.....	S
One-Piece Right Window.....	S	700 mm (27.5" in) 3-Bar Steel Grousers.....	O	Ignition Keys.....	S
Radio Mute Switch.....	S	Carbody Belly Pan (Swivel Guarding).....	S	Pilot Circuit Hydraulic Filter.....	S
Rain Deflector.....	O	Center Track Guide (single).....	S	Rearview Mirrors.....	S
Rear View Camera.....	S	Center Track Guide (triple).....	O	Work Light for Boom.....	S
Rear View Mirrors (2).....	S	Lashing Points (Tie-Downs).....	S		
RemoteCARE Support System (GPS).....	S	Long Undercarriage.....	S		
Roof Sun Shade.....	S	Sealed Link Chain.....	S		
ROPS Certified Structure.....	S	Steps.....	S		
Safety Glass Windows.....	S	Strutted Track Chain.....	S		
SCM Air-Suspension Seat with Tilt & Heater.....	O	X-Pattern Carbody.....	S		
SCM Suspension Seat.....	S				
Seat Recline.....	S				
Selectable Monitor Languages.....	S				

**Equipment Key**  
Standard - S    Optional - O

## Bucket Sizes

Bucket Type	SAE Heaped Capacity		Width Outside Lip		Bucket Weight		Number of Teeth	Arm Length	
	(yd³)	(m³)	(in)	(mm)	(lbs)	(kg)		8' 7"	10' 0"
<b>STDP</b> Standard duty plate	0.58	0.44	24	610	913	415	4	H	H
	0.76	0.58	30	762	1016	462	4	H	H
	0.95	0.73	36	914	1139	518	5	M	M
	1.14	0.87	42	1067	1245	566	6	L	L
<b>HDP</b> Heavy duty plate	0.57	0.44	24	610	1203	547	4	H	H
	0.76	0.58	30	762	1336	607	4	H	M
	0.95	0.73	36	914	1468	667	5	M	L
	1.14	0.87	42	1067	1598	726	5	L	L
<b>XDP</b> Extreme duty plate	0.50	0.38	24	610	1085	493	4	H	H
	0.65	0.50	30	762	1202	546	4	H	H
	0.81	0.62	36	914	1347	612	5	H	M
	0.97	0.74	42	1067	1464	665	5	M	L
<b>POWER</b> HDP for use with ESCO multi-pin grabber only	0.50	0.38	24	610	1554	706	4	H	H
	0.65	0.50	30	762	1654	752	4	H	H
	0.81	0.62	36	914	1780	809	5	M	L
	0.97	0.74	42	1067	1875	852	6	L	L
<b>DITCH</b>	0.95	0.73	60	1524	1050	477	-	M	M
	1.06	0.81	66	1676	1124	511	-	M	L

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

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

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