

Link-Belt
MATERIAL HANDLING EQUIPMENT

370 Lx
Tier 3

Operating Weight: 105,357 lbs (47 789 kg)

SAE Net Horsepower: 271 HP (202 kW)

Swing Torque: 112,110 ft.-lbs. (152.0 kNm)



LBX
"Different by Design"

Operator's Control Station

Large, Low Noise Cab Design

A wide cab design provides expanded leg and elbow room. **Six silicon filled isolation mounts** float the entire cab above the noise and vibration of an already quiet machine, greatly reducing operator fatigue. Large entry door and access width makes entering and exiting the cab a breeze.

Control Panel

Many machine function switches are concentrated in a panel in clear view and easy reach of the operator.

Tilting Console and Sliding Seat

The seat slides independently of the control consoles to assure optimal joystick positions at all times. The joysticks can be tilted to any of three settings, allowing the operator to work in the most comfortable position. The entire platform can then be moved forward or backward for best foot pedal positioning.



Panoramic Visibility

This cab provides more window space than ever. Even the sunroof is large. The operator's "office with a view" has rear and side windows made of LEXAN® MARGUARD™.

Informative LCD Monitor

Large size LCD Monitor displays graphically a wide range of operating information such as; engine temperature, hydraulic oil temperature, fuel level, travel speed, work mode and engine idle. Additional messages include system/machine warnings and service due messages in your choice of English and 13 other languages. Backlit illumination ensures displays are always readable – day and night.

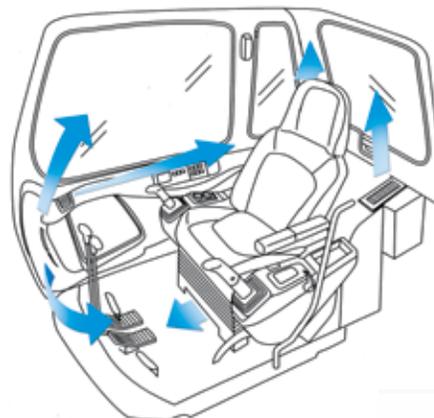


All Weather Visibility

With built-in washer and intermittent speed control, the wiper keeps your windshield clear, whatever the condition outside. The "rise-up" design takes the wiper arm and blade out of the line of sight when its not in use, plus lifts the blade from the cab surface so that it doesn't freeze to the cab in icy weather.

Fresh Air Induction-Type Climate Control

LX provides exceptional heating/cooling capabilities with a climate control system that automatically regulates the temperature for the operator's comfort. Now with 6 vents, LX Series material handlers provide exceptional air circulation for optimum operator comfort. Front-side air outlet and defroster ensure a comfortable operating environment while the open/close type rear window further improves the ventilation.



Best Seat at the Site

The KAB 515 seat adjusts to your size and comfort. The semi-bucket seat provides firm support and comfort with armrests, adjustable seat suspension, adjustable lumbar support, and durable urethane cushions.

Tripmeter

In addition to the hour meter, LX has added a Tripmeter. Every job or application can be measured.

AM/FM Stereo Radio

Standard equipment.

Performance

Advanced Hydraulic System

Top-of-the-Class Cycle Times/Fuel Efficient

The LX Series hydraulic system efficiently delivers power, speed and control when and where it's needed. Fuel consumption and cycle times are more efficient in swing/dump operations over conventional models. This is accomplished through reducing system pressure loss, re-using return oil and providing double pump flow during key operations.

Two Hydraulic Return Lines

Two hydraulic returns lines mean faster speed in the system, and reduces back pressure build-up.

2 Speed Boom and Arm

The 2-speed boom lifting and arm opening and closing function provides the LX series with top-of-its-class lifting speed especially in multi-function operations such as truck or barge loading.

Cushioned Swing

This built-in special cushion valve greatly reduces the shock and vibration at the end of each swing cycle, especially important for grapple and magnet operations.

Cushioned Attachment Control

In addition to having cushioned cylinders, selectable cushioned attachment control lets you smooth out the attachment movements. A cushion valve in the boom and arm circuits reduce shock loading and vibration during attachment operation.

Free Swing

Allows the operator to disengage the swing brake providing crane-like precision and control when handling loads.

Single Pedal Travel

Allows the operator to engage both tracks at the same time using only one pedal. This keeps the machine in line and provides safety and ease in loading/unloading the machine for transport.

Automatic Speed Shifting

When operating in difficult travel conditions, the travel motor automatically downshifts from high to low speed for increased tractive effort and then automatically returns to high speed when travel conditions permit.

Fuel Tank Capacity

The LX Series fuel tank provides the capacity to reduce refueling frequency, allowing for an extended work day.



Generator Package

20 KW Baldor generator. Hydraulic driven generator includes Hubbell automatic discharge magnet controller.

Meter Package

Located in the operators cab, the voltmeter advises the operator of generator output.



Elevated Cab

Operators cab with guarding is available in 6' 0" (1.83 m), 8' 0" (2.44 m) or 10' 0" (3.05 m) elevated heights. All elevated cabs manually tilt for maximum serviceability and transferability. Includes extra wide catwalks. (Hydraulically operated tilting cab optional).



Upper and Attachments

Improved Pin and Bushing Life

The chrome plated boom foot pin mounted in grease impregnated brass bushing provides a durable and long lasting connection to the attachment. This also makes it possible to extend the lubrication interval on this pin to once every 6 months or 1,000 hours of operation, whichever comes first.

- A. The surface of the bushing is stratified with a solid lubricant in hard brass to protect the parts from abrasion.
- B. The pin's surface is plate-processed to increase hardness and protect from abrasion
- C. The original dust seal is double-structured to keep out dust and dirt and protect from subsequent abrasion.



Undercarriage

High-Wide Undercarriage

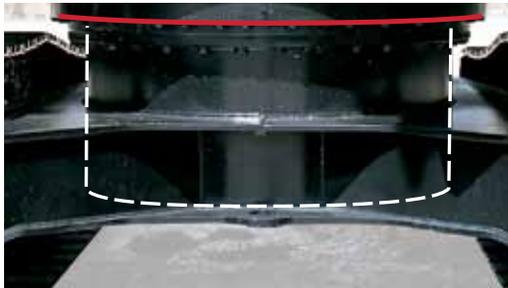
High-wide undercarriages incorporate heavy duty components and improve stability. The purpose built material handler car-body is integrally welded for maximum strength and durability.

Bearing Tub

Built into the material handler carbody is the turntable bearing "tub" which extends down through the top plate and is welded to the bottom of the carbody as well as the top for increased strength and durability.

Two-Speed Travel Motor

Combined with high torque final drives to provide increased torque for tough work conditions.



Strut Type Chain Links

There are no weak links in our chain. Struts reduce twisting and hold up to severe point loading when all of the machine weight is transferred through one roller.

Track Rollers

Filled with synthetic oil to reduce heat build up and for long term reliability.

Track Adjustment

Adjustments are made easy with standard grease cylinder track adjusters and shock absorbing springs.

Single Pedal Travel

Allows the operator to engage both tracks at the same time using only one pedal. This feature provides consistent straight-line travel for narrow work environments.

Oversized Turntable Bearings

Designed for heavy loads and high duty cycle operations.

Heavy Duty Swing Motor

Provides increased swing torque for material handling applications.



Specifications

Engine

Isuzu AH-6HK1XYSS Electric engine control, water cooled, 4-cycle diesel, 6 cylinder, turbocharged with intercooler, 475 CID (7 790 cc), 4.53" (115 mm) bore x 4.92" (125 mm) stroke. EPA Tier 3 compliant.

SAE net horsepower..... 271 HP (202 kW) @ 2,000 rpm
Maximum torque.....797 ft.-lbs. (1080 N-m) @ 1,500 rpm
Starter..... Electric, 24V
Alternator..... 50 amp
Battery 128 amp hours
Air cleaner Double element
Governor Electronic

Hydraulic System

Two variable displacement axial piston pumps and one gear pump for pilot controls, with Link-Belt Inte-LX® Control System. Link-Belt Inte-LX® Control includes: electric engine control, four selectable working modes, auto/one touch idling, automatic speed shifting, free swing, cushioned attachment, and two safety lockout switches including gate lock.

Hydraulic Pumps

Two variable volume piston pumps provide power for attachment, swing and travel. Auxiliary pump for grapple rotate.

Maximum flow..... 2 x 75 gpm (2 x 284 l/min)
Pilot pump max. flow 8.1 gpm (30 l/min)
Aux. pump max. flow 10.9 gpm (41 l/min)

Relief Valve Settings

Attachment 4,970 psi (350 kg/cm²)
Swing circuit..... 4,260 psi (300 kg/cm²)
Travel 4,970 psi (350 kg/cm²)

Hydraulic Cylinders

Young 2-Piece

(number of cylinders - Bore, Rod, Stroke)

Boom..... 2 - 6.5" x 4.5" x 55"
(165 mm x 114 mm x 1 397 mm)
Stick..... 1 - 6.5" x 4.5" x 66"
(165 mm x 114 mm x 1 676 mm)

Young 3-Piece

(number of cylinders - Bore, Rod, Stroke)

Boom 2 - 6.5" x 4.5" x 55"
(165 mm x 114 mm x 1 397 mm)
Stick..... 1 - 6.5" x 4.5" x 66"
(165 mm x 114 mm x 1 676 mm)
Jib 1 - 6" x 4" x 36"
(152 mm x 102 mm x 914 mm)

Oil Filtration

Nephron® filter..... 1 micron
Return, pilot..... 10 micron
Suction filter..... 105 micron

Control Valve One 4-spool valve and one 5-spool valve with auxiliary spool.

Cab and Controls

Cab mounted on 6 fluid filled mountings. Features include a safety glass front window and LEXAN® MARGARD™ rear and side windows, reclining/sliding suspension seat with headrest, armrests, lumbar support, heater, air conditioner, AM/FM stereo, cigarette lighter, pop-up skylight window, and intermittent wiper with washer. Front window slides upward for storage and the lower front window is removable. Control levers are located in 3-position tilting control consoles. Reliable soft-touch switches. Easy-to-read illuminated LCD service monitor keeps operator in touch with critical machine functions.

Heater output..... 20,120 BTU/hr (5 070 kcal/hr)
A/C output..... 18,250 BTU/hr (4 600 kcal/hr)

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. Swing cushion valve and dual stage relief valves for smooth swing deceleration and stops. Mechanical disc swing brake. Auto power swing.

Swing speed..... 0 - 8.1 rpm
Tail swing 11' 7" (3.52 m)
Swing torque 112,110 ft.-lbs. (152.0 kNm)

Undercarriage

Heavy duty lower X-style carbody is integrally welded for strength and durability. Grease cylinder track adjusters with shock absorbing springs. LC undercarriage with sealed track, lubricated rollers and idlers. Three-bar grouser track shoes.

Carrier rollers 2 per side
Track rollers 9 per side
Track link pitch 9" (228.6 mm)
Shoes 50 per side
Shoe width 29.5" (750 mm)

Travel System

Two-speed independent hydrostatic travel with compact axial piston motors for increased performance. Hydraulic motor powered output shaft coupled to a planetary reduction unit and track sprocket. All hydraulic components mounted within the width of side frame.

Automatic Downshift: When operating in difficult travel conditions, the travel motor automatically downshifts from high to low speed for increased tractive effort and then automatically returns to high speed when travel conditions permit.

Max. travel speed 1.6/2.6 mph (2.5/4.2 km/h)
Traction force..... 82,731 lbs. (37 526 kg)
Gradeability 70%

Spring applied, hydraulically released disc parking brake built into each motor. Each travel motor equipped with counterbalance valve to prevent overspeeding down an incline and 3-stage reliefs for smooth starts and stops.

Attachment Options

Young 48' (14.63 m) 3-piece attachment
Young 50' (15.24 m) 2-piece attachment

Lubricant and Coolant Capacity

Hydraulic tank 46 gal. (175 liters)
Hydraulic system 92 gal. (350 liters)
Final drive (per side)..... 4.0 gal. (15 liters)
Swing drive 2.8 gal. (10.5 liters)
Engine..... 10 gal. (38 liters)
Fuel tank..... 153 gal. (580 liters)
Cooling system..... 7.9 gal. (30 liters)

Operating Weight

Working weight with 29.5" (750 mm) shoes, 48' 3-piece attachment, 6' cab riser, generator and 41 50 lb. (1 885 kg) 57" deep field magnet 105,357 lbs. (47 789 kg)

Working weight with 29.5" (750 mm) shoes, 50' 2-piece attachment, 6' cab riser, generator and 41 50 lb. (1 885 kg) 57" deep field magnet 104,407 lbs. (47 358 kg)

Lifting Capacities

370 LX Material Handler w/two piece Young Attachment

Grapple Pin Height		Radius of Load															
		15' 0" (4.57 m)		20' 0" (6.10 m)		25' 0" (7.62 m)		30' 0" (9.14 m)		35' 0" (10.67 m)		40' 0" (12.19 m)		45' 0" (13.72 m)		50' 0" (15.24 m)	
		End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side
50' 0" (15.24 m)	lbs. kg					16,100* 7 300*	16,100* 7 300*										
45' 0" (13.72 m)	lbs. kg					18,000* 8 160*	18,000* 8 160*	15,500* 7 030*	15,500* 7 030*								
40' 0" (12.19 m)	lbs. kg							17,200* 7 800*	17,200* 7 800*	14,600* 6 620*	14,600* 6 620*						
35' 0" (10.67 m)	lbs. kg							18,000* 8 160*	18,000* 8 160*	16,500* 7 480*	14,900* 6 750	13,000* 5 890*	11,600* 5 260				
30' 0" (9.14 m)	lbs. kg							18,700* 8 480*	18,700* 8 480*	17,800* 8 070*	14,800* 6 710	15,400* 6 980*	11,700* 5 300				
25' 0" (7.62 m)	lbs. kg					18,900* 8 570*	18,900* 8 570*	19,700* 8 930*	18,800* 8 520	19,100* 8 660*	14,600* 6 620	16,800* 7 620	11,600* 5 260	12,800* 5 800*	9,300* 4 210		
20' 0" (6.10 m)	lbs. kg					20,400* 9 250*	20,400* 9 250*	21,600* 9 790*	18,200* 8 250	19,500* 8 840*	14,200* 6 440	16,600* 7 520	11,300* 5 120	13,600* 6 160	9,200* 4 170		
15' 0" (4.57 m)	lbs. kg			20,900* 9 480*	20,900* 9 480*	24,400* 11 060*	23,100* 10 470	22,700* 10 290*	17,400* 7 890	19,900* 9 020*	13,700* 6 210	16,200* 7 340	11,000* 4 980	13,400* 6 070	9,000* 4 080		
10' 0" (3.05 m)	lbs. kg			34,600* 15 690*	30,200* 13 690	28,000* 12 700*	21,700* 9 840	23,600* 10 700*	16,500* 7 480	19,400* 8 790	13,100* 5 940	15,800* 7 160	10,600* 4 800	13,200* 5 980	8,800* 3 990	9,600* 4 350*	7,300* 3 310
5' 0" (1.52 m)	lbs. kg			36,700* 16 640*	27,800* 12 600	29,100* 13 190*	20,300* 9 200	23,500* 10 650	15,700* 7 120	18,800* 8 520	12,500* 5 660	15,400* 6 980	10,300* 4 670	12,900* 5 850	8,600* 3 900	9,700* 4 390*	7,200* 3 260
0' 0" (0 m)	lbs. kg			37,000* 16 780*	25,900* 11 740	29,200* 13 240*	19,100* 8 660	22,700* 10 290	14,900* 6 750	18,200* 8 250	12,000* 5 440	15,100* 6 840	9,900* 4 490	12,700* 5 760	8,400* 3 810		
-5' 0" (-1.52 m)	lbs. kg	10,200* 4 620*	10,200* 4 620*	27,700* 12 560*	24,700* 11 200	28,100* 12 740*	18,300* 8 300	22,100* 10 020	14,300* 6 480	17,800* 8 070	11,600* 5 260	14,800* 6 710	9,700* 4 390	12,600* 5 710*	8,200* 3 710		
-10' 0" (-3.05 m)	lbs. kg	12,300* 5 570*	12,300* 5 570*	25,700* 11 650*	24,100* 10 930	25,700* 11 650*	17,800* 8 070	21,100* 9 570*	13,900* 6 300	17,400* 7 890*	11,400* 5 170	14,000* 6 350*	9,500* 4 300	10,200* 4 620*	8,200* 3 710		
-15' 0" (-4.57 m)	lbs. kg	15,100* 6 840*	15,100* 6 840*	26,400* 11 970*	23,900* 10 840	21,900* 9 930*	17,600* 7 980	21,900* 9 930*	13,800* 6 250	14,500* 6 570*	11,300* 5 120	11,000* 4 980*	9,500* 4 300				

370 LX Material Handler w/three piece Young Attachment

Grapple Pin Height		Radius of Load															
		10' 0" (3.05 m)		15' 0" (4.57 m)		20' 0" (6.01 m)		25' 0" (7.62 m)		30' 0" (9.14 m)		35' 0" (10.67 m)		40' 0" (12.19 m)		45' 0" (13.72 m)	
		End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side
50' 0" (15.24 m)	lbs. kg					16,900* 7 660*	16,900* 7 660*										
45' 0" (13.72 m)	lbs. kg					15,000* 6 800*	15,000* 6 800*	15,900* 7 210*	15,900* 7 210*	11,700* 5 300*	11,700* 5 300*						
40' 0" (12.19 m)	lbs. kg					16,600* 7 520*	16,600* 7 520*	16,100* 7 300*	16,100* 7 300*	14,900* 6 750*	14,900* 6 750*	10,800* 4 890*	10,800* 4 890*				
35' 0" (10.67 m)	lbs. kg					19,700* 8 930*	19,700* 8 930*	17,200* 7 800*	17,200* 7 800*	16,000* 7 250*	16,000* 7 250*	13,900* 6 300*	13,900* 6 300*				
30' 0" (9.14 m)	lbs. kg					25,500* 11 560*	25,500* 11 560*	19,500* 8 840*	19,500* 8 840*	16,800* 7 620*	16,800* 7 620*	15,400* 6 980*	14,400* 6 530	12,200* 5 530*	11,200* 5 080		
25' 0" (7.62 m)	lbs. kg					30,600* 13 880*	30,600* 13 880*	25,700* 11 650*	21,500* 9 750	18,800* 8 520*	17,400* 7 890	16,600* 7 520*	14,300* 6 480	14,100* 6 390*	11,200* 5 080		
20' 0" (6.10 m)	lbs. kg			27,400* 12 420*	27,400* 12 420*	31,000* 14 060*	31,000* 14 060*	26,700* 12 110*	21,200* 9 610	22,800* 10 340*	15,800* 7 160	18,100* 8 210*	13,800* 6 250	15,700* 7 120*	11,000* 4 980	10,900* 4 940*	8,700* 3 940
15' 0" (4.57 m)	lbs. kg	19,600* 8 890*	19,600* 8 890*	36,200* 16 420*	36,200* 16 420*	32,200* 14 600*	30,200* 13 690	27,200* 12 330*	20,700* 9 380	23,000* 10 430	15,100* 6 840	18,800* 8 520	12,500* 5 660	15,900* 7 210	10,700* 4 850	12,600* 5 710*	8,600* 3 900
10' 0" (3.05 m)	lbs. kg	21,000* 9 520*	21,000* 9 520*	42,100* 19 090*	42,100* 19 090*	33,900* 15 370*	29,200* 13 240	27,900* 12 650*	20,100* 9 110	22,700* 10 290	14,800* 6 710	18,500* 8 390	12,200* 5 530	15,600* 7 070	10,400* 4 710	12,800* 5 800	8,400* 3 810
5' 0" (1.52 m)	lbs. kg	14,600* 6 620*	14,600* 6 620*	43,400* 19 680*	43,400* 19 680*	35,600* 16 140*	28,100* 12 740	28,500* 12 920*	19,400* 8 790	23,000* 10 430	15,200* 6 890	18,800* 8 520	12,500* 5 660	15,300* 6 940	10,100* 4 580	12,600* 5 710	8,200* 3 710
0' 0" (0 m)	lbs. kg	11,400* 5 170*	11,400* 5 170*	27,600* 12 510*	27,600* 12 510*	36,800* 16 690*	27,500* 12 470	29,000* 13 150*	19,700* 8 930	23,100* 10 470	15,200* 6 890	18,300* 8 300	12,000* 5 440	14,900* 6 750	9,700* 4 390	12,400* 5 620	8,100* 3 670
-5' 0" (-1.52 m)	lbs. kg	13,800* 6 250*	13,800* 6 250*	21,000* 9 520*	21,000* 9 520*	36,800* 16 690*	25,900* 11 740	28,800* 13 060*	18,800* 8 520	22,300* 10 110	14,500* 6 570	17,800* 8 070	11,600* 5 260	14,600* 6 620*	9,500* 4 300	11,700* 5 300*	7,900* 3 580
-10' 0" (-3.05 m)	lbs. kg	13,800* 6 250*	13,800* 6 250*	18,000* 8 160*	18,000* 8 160*	28,300* 12 830*	24,900* 11 290	27,100* 12 290*	18,200* 8 250	21,700* 9 840*	14,000* 6 350	17,500* 7 930	11,300* 5 120	13,600* 6 160*	9,300* 4 210		
-15' 0" (-4.57 m)	lbs. kg	13,900* 6 300*	13,900* 6 300*	17,300* 7 840*	17,300* 7 840*	25,800* 11 700*	24,500* 11 110	23,700* 10 750*	17,800* 8 070	18,800* 8 520*	13,800* 6 250	14,600* 6 620*	11,200* 5 080	10,100* 4 580*	9,300* 4 210		
-20' 0" (-6.10 m)	lbs. kg					22,900* 10 380*	22,900* 10 380*	18,300* 8 300*	17,800* 8 070	14,100* 6 390*	13,800* 6 250						

Notes: Material Handler 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 in compliance with ASME B30.25 SCRAP AND MATERIAL HANDLERS
- 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, sudden stopping of loads, or other unfavorable job conditions.
- 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.
- These capacities apply to machines having 4970 psi boom hoist cylinder pressure.
- Least stable position is over the side.
- Operator should be fully acquainted with the Operator's Manual & Operating Safety Booklet, furnished by the manufacturers before operating the machine.
- Capacities apply only to the machine as originally manufactured and normally equipped by LBX Company LLC.

Specifications (continued)

Standard Equipment

- Inte-LX® Computer System
- Self-diagnostic system
- Four selectable working modes
- One-touch decelerator (grapple only)
- Auto idling system
- Auto idle start
- Low idle up
- Auto engine warm up
- Cushioned attachment control
- Free swing control
- Travel alarm
- Nephron® filtration system
- Low noise/low vibration cab floating on 6 fluid filled mounts
- Sliding/reclining, suspension cloth upholstered seat with adjustable arm rests and lumbar support, retracting seat belt
- 3-position tilting consoles
- 4th position on left console for entering and exiting the cab also serves as control lock-out
- Illuminated LCD service monitor
- Climate control heater and air conditioner
- Horn, interior lighting, AM/FM STEREO radio, digital clock, floor mat, cigarette lighter
- Safety glass front windows with automatic lock and intermittent rise-up windshield wiper and washer, large LEXAN® rear/side windows
- Gate lock and gate lock lever (control lock-out device)
- Common key for cab & house doors, engine hood, tool box, and fuel cap
- Hand grab rails both sides
- Rear view mirror, coat hook, storage compartment
- Heavy duty lower carbody
- Chrome plated boom foot pin with oil impregnated bushing
- Grapple open/close rotate system
- 18,550 lbs. (8 415 kg) counterweight
- 12 volt adapter
- Single pedal travel
- High-wide undercarriage

Options

- 6', 8', or 10' manual tilt cab, includes ladder, catwalk and platform (6' elevated cab most common)
- Hydraulic tilt cabs are available upon request
- 2-Piece 50 ft. Young Attachment
- 3-Piece 48 ft. Young Attachment
- 20 Kw Baldor generator includes voltmeter and ammeter



LBX Company is the proud maker of quality Link-Belt excavators and is located in Lexington, KY.



Litho in USA 6/11 #LBX2190 (supersedes #LBX2146)

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