Link-Belt
MATERIAL HANDLING EQUIPMENT

600 LX Material Handler

Engine

Isuzu AH-6UZ1XYSS six cylinder, diesel engine turbocharged with air cooled intercooler, electronic fuel injection, 362 Net HP (270 kW) without fan pump, 329 Net HP (245 kW) with fan pump, 4-cycle, water cooled, double element air filter with restriction indicator, EPA Tier III compliant.

SAE net horsepower .. 362 HP (270 kW) @ 1,950 rpm
Maximum torque ... 1,058 ft-lbs. (1 435 N-m) @ 1,435 rpm
Starter 24V
Alternator ..... 50 amp
Air cleaner ..... Double element
Governor ..... Electronic
Battery ..... 128 amp hours

Hydraulic System

Two variable displacement axial piston pumps and one gear pump for pilot controls, one 4 spool valve and one 5-spool valve with auxiliary spool.

Hydraulic Pumps

Two variable volume piston pumps provide power for attachment, swing and travel.

Maximum flow ..... 2 x 95.1 gpm (2 x 360 l/min)
Pilot pump max. flow ..... 7.9 gpm (30 l/min)

Relief Valve Settings

Boom/arm/bucket ..... 4,550 psi (31.4 MPa^2)
Swing circuit ..... 4,260 psi (29.4 MPa^2)
Travel circuit ..... 4,970 psi (34.3 MPa^2)

Hydraulic Cylinders

Young 2-piece..... number of cylinders – bore x rod x stroke
Boom ..... 2 - 7.5" x 5" x 59"
(191 mm x 127 mm x 1 499 mm)
Arm ..... 1 - 7.5" x 5" x 78"
(191 mm x 127 mm x 1 981 mm)

Young 3-piece..... number of cylinders – bore x rod x stroke
Boom ..... 2 - 7.5" x 5" x 59"
(191 mm x 127 mm x 1 499 mm)
Arm ..... 1 - 8.5" x 5" x 71"
(216 mm x 127 mm x 1 803 mm)
Jib ..... 1 - 6.5" x 4" x 53.5"
(165 mm x 102 mm x 1 359 mm)

Control Valve One 4-spool valve for right track travel, boom, bucket, and arm acceleration, and one 5-spool valve for left track travel, swing, boom acceleration, auxiliary spool and arm.

Oil Filtration

Nephron® filter ..... 1 micron
Return and pilot filters ..... 10 micron
Suction screen ..... 105 micron

Cab and Controls

Cab mounted on 6 fluid filled mountings. Features include safety glass windows, sliding front window with auto-lock. Windshield washer and wiper, heater, air-conditioner, AM/FM radio with auto tuner, floor mat, skylight window and right and rear side mirrors. KAB 515 operators seat with manual weight adjustment, seat height and tilt adjustment, adjustable headrest, backrest angle adjustment, adjustable pivoting arm rests and seat belt. Control pattern selector valve. Reliable soft-touch switches.

Heater output ..... 20,240 BTU/hr (5 100 kcal/hr)
A/C output ..... 18,250 BTU/hr (4 600 kcal/hr)

Swing

Fixed displacement 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.

Swing speed ..... 0 – 9.0 rpm
Tail swing ..... 11' 11" (3.62 m)
Swing torque ..... 110,710 lbf-ft. (150.0 kN•m)

Undercarriage

12' 2" (3.72 m) gauge by 17' 9" (5.42 m) tractor type (LC) long undercarriage, 2' 5" (0.73 m) ground clearance, sealed rollers and idlers, H.D. travel motor covers, H.D. center guard, idler mount reinforcement, and double track guides.

Carrier rollers ..... 3 per side
Track rollers ..... 9 per side
Track link pitch ..... 9" (228 mm)
Shoes ..... 50 per side
Shoe width ..... 29.5" (750mm)

Travel System

Variable displacement axial piston motor, two-speed independent hydrostatic travel with compact drive, disc type parking brakes. All hydraulic components mounted within the width of side frame.

Max. travel speed ..... 1.9/3.3 mph (3.1/5.3 km/h)
Gradeability 70%
Traction Force .....76,660 lbs. (34 772 kg)

Lubricant and Coolant Capacity

Hydraulic tank ..... 62.61 gal. (237 liters)
Hydraulic system ..... 90.35 gal. (342 liters)
Final drive (per side) ..... 3.96 gal. (15 liters)
Engine ..... 9.51 gal. (36 liters)
Fuel tank ..... 161.41 gal. (611 liters)
Cooling system ..... 10.04 gal. (38 liters)

Attachment Options

Young 2-piece ..... 55' (16.76 m)
Young 3-piece ..... 54' (16.46 m)

Operating Weight

Working weight with 29.5" (750 mm) shoes, 55' 2-piece attachment, 6' cab riser
..... 119,696 lbs. (54 293 kg)

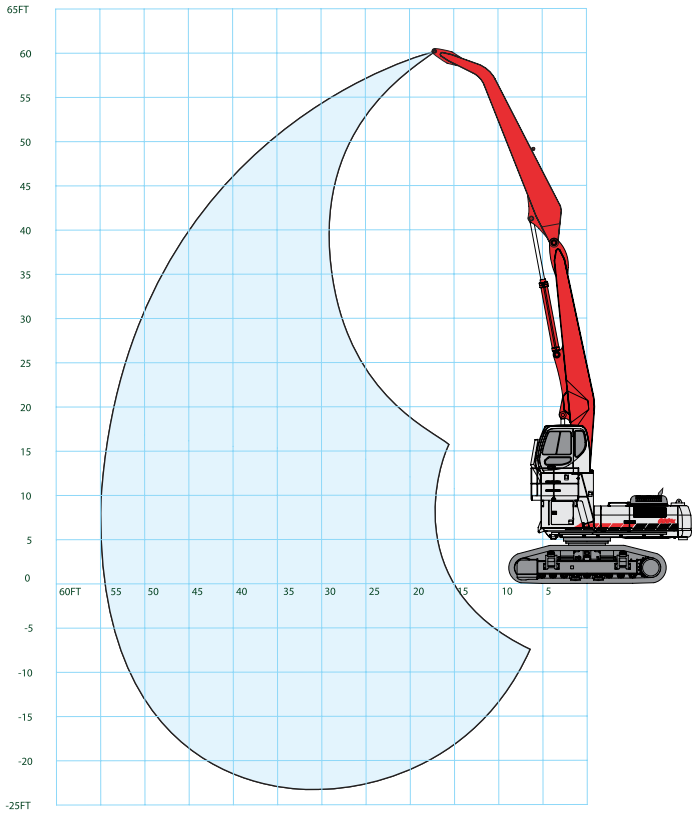
Working weight with 29.5" (750 mm) shoes, 54' 3-piece attachment, 6' cab riser
..... 121,303 lbs. (55 022 kg)

LBX
"Different by Design"

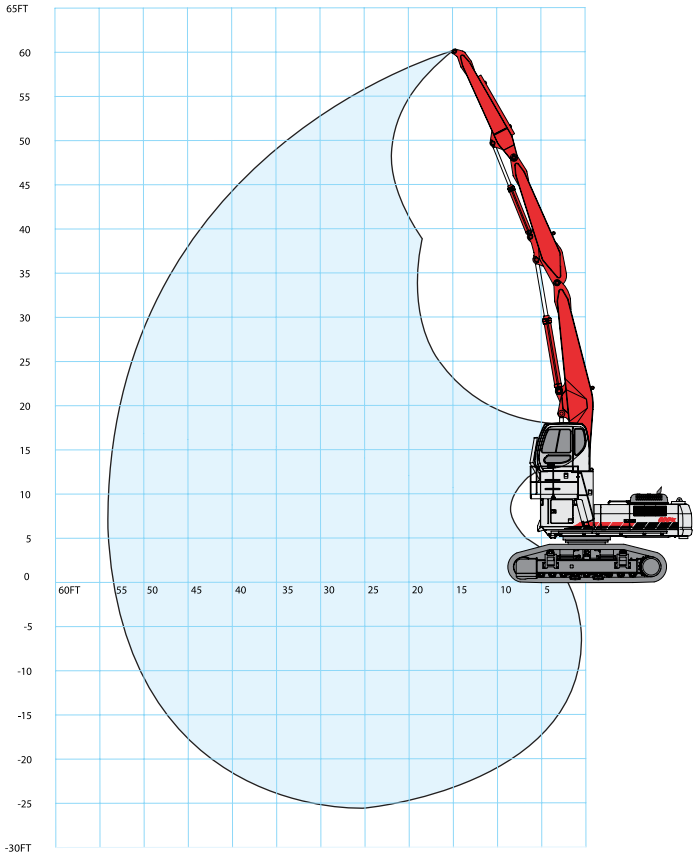
600 LX Tier 3 Material Handler

Working Ranges

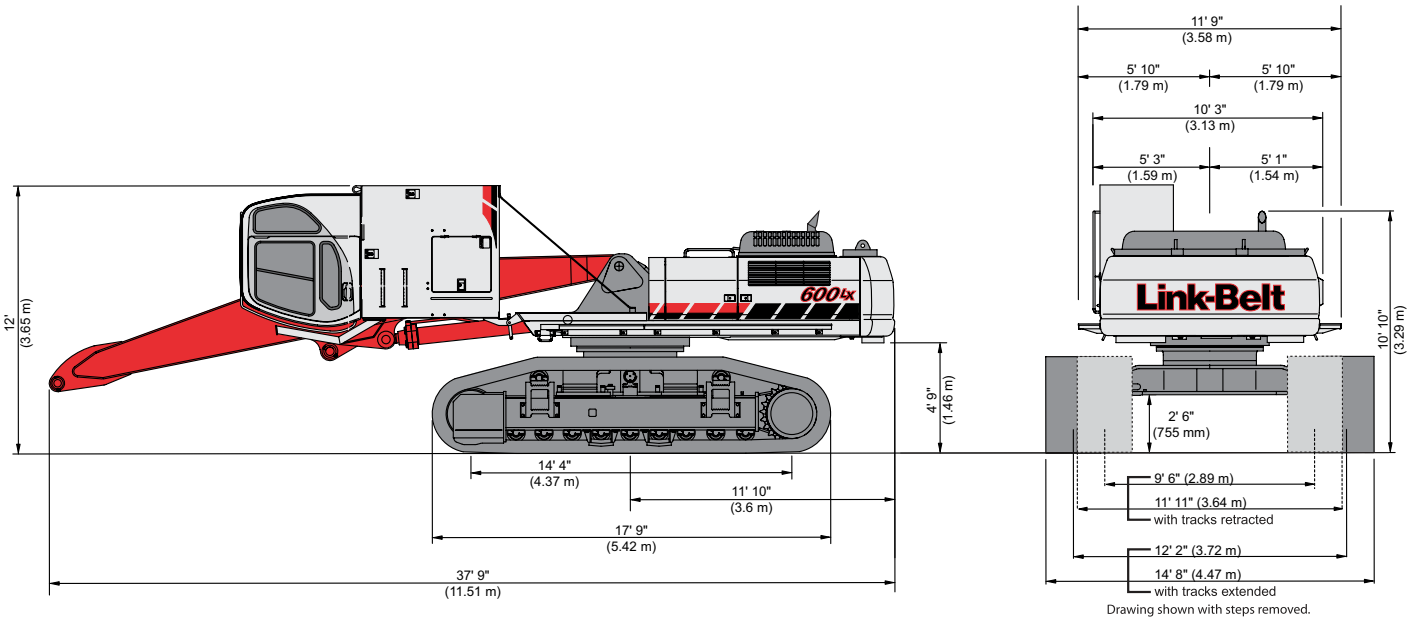
600 LX Material Handler Working Range
with a 55' (16.76 m) 2-piece attachment



600 LX Material Handler Working Range
with a 54' (16.46 m) 3-piece attachment



Travel Dimensions



Drawing shown with steps removed.

600 LX Tier 3 Material Handler

Lifting Capacities

600 LX Material Handler w/two piece 55' (16.76 m) Young Attachment

Grapple Pin Height		Radius of Load																			
		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)		**35' 0"** (10.67 m)		**40' 0"** (12.19 m)		**45' 0"** (13.72 m)		**50' 0"** (15.24 m)		**55' 0"** (16.76 m)	
		End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side
55' 0" (16.76 m)	**lbs.** kg							**22,100*** 10 024*	**22,100*** 10 024*												
50' 0" (15.24 m)	**lbs.** kg									**21,300*** 9 662*	**21,300*** 9 662*	**16,700*** 7 575*	**16,700*** 7 575*								
45' 0" (13.72 m)	**lbs.** kg									**22,800*** 10 342*	**22,800*** 10 342*	**20,400*** 9 253*	**20,400*** 9 253*	**15,700*** 7 121*	**15,700*** 7 121*						
40' 0" (12.19 m)	**lbs.** kg									**23,600*** 10 705*	**23,600*** 10 705*	**22,200*** 10 070*	**22,200*** 10 070*	**19,400*** 8 800*	**19,400*** 8 800*	**13,100*** 5 942*	**13,100*** 5 942*				
35' 0" (10.67 m)	**lbs.** kg									**24,300*** 11,022*	**24,300*** 11,022*	**23,200*** 10 523*	**23,200*** 10 523*	**21,300*** 9 662*	**19,600** 8 890	**17,500*** 7 938*	**15,800** 7 167				
30' 0" (9.14 m)	**lbs.** kg									**25,200*** 11 431*	**25,200*** 11 431*	**23,500*** 10 659*	**23,500*** 10 659*	**21,400*** 9 707*	**19,500** 8 845	**17,900** 8 119	**15,800** 7 167	**13,600*** 6 169*	**12,900** 5 851		
25' 0" (7.62 m)	**lbs.** kg									**26,700*** 12,111*	**26,700*** 12,111*	**24,000*** 10 886*	**23,900** 10 841	**21,600** 9 798	**19,200** 8 709	**17,700** 8 029	**15,700** 7 121	**14,700** 6 668	**12,900** 5 851		
20' 0" (6.10 m)	**lbs.** kg							**27,900*** 12 655*	**27,900*** 12 655*	**27,800*** 12 610*	**27,800*** 12 610*	**24,600*** 11 158*	**23,200** 10 523	**21,100** 9 571	**18,700** 8 482	**17,400** 7 893	**15,400** 6 985	**14,600** 6 622	**12,800** 5 806		
15' 0" (4.57 m)	**lbs.** kg					**30,700*** 13 925*	**30,700*** 13 925*	**34,100*** 15 468*	**34,100*** 15 468*	**29,000*** 13 154*	**28,500** 12 927	**25,300*** 11 476*	**22,400** 10 160	**20,600** 9 344	**18,200** 8 255	**17,100** 7 756	**15,000** 6 804	**14,300** 6 486	**12,600** 5 715		
10' 0" (3.05 m)	**lbs.** kg					**45,000*** 20 412*	**45,000*** 20 412*	**36,000*** 16 329*	**35,600** 16 148	**30,100*** 13 653*	**27,100** 12 292	**24,400** 11 068	**21,500** 9 752	**20,000** 9 072	**17,600** 7 983	**16,600** 7 530	**14,600** 6 622	**14,100** 6 396	**12,300** 5 579	**12,000** 5 443	**10,500** 4 763
5' 0" (1.52 m)	**lbs.** kg					**47,000*** 21 319*	**46,500** 21 092	**37,100*** 16 828*	**33,500** 15 195	**29,500** 13 381	**25,800** 11 703	**23,500** 10 659	**20,600** 9 344	**19,300** 8 754	**16,900** 7 666	**16,200** 7 348	**14,200** 6 441	**13,800** 6 260	**12,100** 5 488	**11,900** 5 398	**10,400** 4 717
0' 0" (0 m)	**lbs.** kg					**36,200*** 16 420*	**36,200*** 16 420*	**36,700** 16 647	**31,700** 14 379	**28,300** 12 837	**24,600** 11 158	**22,700** 10 297	**19,800** 8 981	**18,800** 8 528	**16,400** 7 439	**15,900** 7 212	**13,800** 6 260	**13,600** 6 169	**11,800** 5 352		
-5' 0" (-1.52 m)	**lbs.** kg			**11,900*** 5 398*	**11,900*** 5 398*	**27,600*** 12 519*	**27,600*** 12 519*	**35,300*** 16 012*	**30,400** 13 789	**27,300** 12 383	**23,700** 10 750	**22,100** 10 024	**19,200** 8 709	**18,300** 8 301	**16,000** 7 257	**15,600** 7 076	**13,500** 6 123	**13,400** 6 078	**11,700** 5 307		
-10' 0" (-3.05 m)	**lbs.** kg			**14,700*** 6 668*	**14,700*** 6 668*	**27,100*** 12 292*	**27,100*** 12 292*	**32,300*** 14 651*	**29,600** 13 426	**26,700** 12 111	**23,100** 10 478	**21,600** 9 798	**18,700** 8 482	**18,000** 8 165	**15,600** 7 076	**15,300*** 6 940*	**13,300** 6 033	**11,200*** 5 080*	**11,200*** 5 080*		
-15' 0" (-4.57 m)	**lbs.** kg			**17,900*** 8 119*	**17,900*** 8 119*	**29,200*** 13 245*	**29,200*** 13 245*	**27,800*** 12 610*	**27,800*** 12 610*	**23,400*** 10 614*	**22,700** 10 297	**19,500*** 8 845*	**18,500** 8 391	**15,900*** 7 212*	**15,500** 7 031	**12,300*** 5 579*	**12,300*** 5 579*				
-20' 0" (-6.10 m)	**lbs.** kg					**25,300*** 11 476*	**25,300*** 11 476*	**22,000*** 9 979*	**22,000*** 9 979*	**18,600*** 8 437*	**18,600*** 8 437*	**15,300*** 6 940*	**15,300*** 6 940*	**11,900*** 5 398*	**11,900*** 5 398*						

600 LX Material Handler w/three piece 54' (16.46 m) Young Attachment

Grapple Pin Height		Radius of Load																			
		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)		**35' 0"** (10.67 m)		**40' 0"** (12.19 m)		**45' 0"** (13.72 m)		**50' 0"** (15.24 m)		**55' 0"** (16.76 m)	
		End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side
55' 0" (16.76 m)	**lbs.** kg							**22,500*** 10 206*	**22,500*** 10 206*												
50' 0" (15.24 m)	**lbs.** kg							**23,200*** 10 523*	**23,200*** 10 523*	**20,700*** 9 389*	**20,700*** 9 389*										
45' 0" (13.72 m)	**lbs.** kg							**22,400*** 10 160*	**22,400*** 10 160*	**22,200*** 10 070*	**22,200*** 10 070*	**19,500*** 8 845*	**19,500*** 8 845*								
40' 0" (12.19 m)	**lbs.** kg					**24,000*** 10 886*	**24,000*** 10 886*	**24,100*** 10 932*	**24,100*** 10 932*	**23,800*** 10 796*	**23,800*** 10 796*	**21,300*** 9 662*	**21,300*** 9 662*	**18,200*** 8 255*	**18,200*** 8 255*						
35' 0" (10.67 m)	**lbs.** kg					**30,400*** 13 789*	**30,400*** 13 789*	**27,200*** 12 338*	**27,200*** 12 338*	**24,800*** 11 249*	**24,800*** 11 249*	**22,300*** 10 115*	**22,300*** 10 115*	**20,300*** 9 208*	**18,700** 8 482	**16,400*** 7 439*	**14,800** 6 713				
30' 0" (9.14 m)	**lbs.** kg					**37,300*** 16 919*	**37,300*** 16 919*	**31,200*** 14 152*	**31,200*** 14 152*	**26,400*** 11 975*	**26,400*** 11 975*	**23,000*** 10 433*	**22,700** 10 297	**20,600*** 9 344*	**18,300** 8 301	**17,000** 7 711	**15,000** 6 804				
25' 0" (7.62 m)	**lbs.** kg					**38,000*** 17 237*	**38,000*** 17 237*	**32,600*** 14 787*	**32,600*** 14 787*	**28,300*** 12 837*	**26,300** 11 929	**24,000*** 10 886*	**21,500** 9 752	**20,100** 9 117	**17,700** 8 029	**16,700** 7 575	**14,700** 6 668	**13,800** 6 260	**12,000** 5 443		
20' 0" (6.10 m)	**lbs.** kg			**49,100*** 22 271*	**49,100*** 22 271*	**40,000*** 18,144*	**40,000*** 18,144*	**33,400*** 15 150*	**33,400*** 15 150*	**28,300*** 12 837*	**25,500** 11 567	**23,000** 10 433	**20,000** 9 072	**19,300** 8 754	**16,800** 7 620	**16,200** 7 348	**14,200** 6 441	**13,800** 6 260	**12,000** 5 443		
15' 0" (4.57 m)	**lbs.** kg	**32,700*** 14 832*	**32,700*** 14 832*	**50,900*** 23 088*	**50,900*** 23 088*	**41,000*** 18 597*	**41,000*** 18 597*	**34,100*** 15 468*	**32,600** 14 787	**27,800** 12 610	**24,100** 10 932	**22,400** 10 160	**19,400** 8 800	**18,800** 8 528	**16,400** 7 439	**16,500** 7 484	**14,400** 6 531	**13,600** 6 169	**11,800** 5 352		
10' 0" (3.05 m)	**lbs.** kg	**53,400*** 24 222*	**53,400*** 24 222*	**53,900*** 24 449*	**53,900*** 24 449*	**42,500*** 19 278*	**42,500*** 19 278*	**34,700*** 15 740*	**31,800** 14 424	**27,600** 12 519	**23,900** 10 841	**22,500** 10 206	**19,600** 8 890	**19,700** 8 936	**17,300** 7 847	**16,100** 7 303	**14,100** 6 396	**13,400** 6 078	**11,600** 5 262		
5' 0" (1.52 m)	**lbs.** kg	**23,100*** 10 478*	**23,100*** 10 478*	**57,900*** 26 263*	**57,900*** 26 263*	**44,100*** 20 003*	**44,100*** 20 003*	**35,100*** 15 921*	**31,200** 14 152	**28,200** 12 791	**24,500** 11 113	**23,700** 10 750	**20,800** 9 435	**19,100** 8 664	**16,700** 7 575	**15,800** 7 167	**13,700** 6 214	**13,200** 5 987	**11,400** 5 171		
0' 0" (0 m)	**lbs.** kg	**19,500*** 8 845*	**19,500*** 8 845*	**35,000*** 15 876*	**35,000*** 15 876*	**45,600*** 20 684*	**45,600*** 20 684*	**36,100*** 16 375*	**33,300** 15 105	**28,900** 13 109	**25,200** 11 431	**22,800** 10 342	**19,900** 9 026	**18,500** 8 391	**16,100** 7 303	**15,400** 6 985	**13,300** 6 033	**13,000** 5 897	**11,200** 5 080		
-5' 0" (-1.52 m)	**lbs.** kg	**17,600*** 7 983*	**17,600*** 7 983*	**26,900*** 12 202*	**26,900*** 12 202*	**46,400*** 21 047*	**44,100** 20 003	**36,200*** 16 420*	**31,300** 14 197	**27,700** 12 565	**24,000** 10 886	**22,000** 9 979	**19,100** 8 664	**18,000** 8 165	**15,600** 7 076	**15,100** 6 849	**13,000** 5 897	**12,700*** 5 761*	**11,100** 5 035		
-10' 0" (-3.05 m)	**lbs.** kg	**16,700*** 7 575*	**16,700*** 7 575*	**21,800*** 9 888*	**21,800*** 9 888*	**40,100*** 18 189*	**40,100*** 18 189*	**34,800*** 15 785*	**30,200** 13 698	**26,800** 12 156	**23,200** 10 523	**21,400** 9 707	**18,500** 8 391	**17,600** 7 983	**15,200** 6 895	**14,900** 6 759	**12,800** 5 806	**9,300*** 4 218*	**9,300*** 4 218*		
-15' 0" (-4.57 m)	**lbs.** kg	**16,800*** 7 620*	**16,800*** 7 620*	**20,000*** 9 072*	**20,000*** 9 072*	**32,200*** 14 606*	**32,200*** 14 606*	**31,500*** 14 288*	**29,400** 13 336	**25,200*** 11 431*	**22,500** 10 206	**20,600*** 9 344*	**18,200** 8 255	**16,200*** 7 348*	**15,000** 6 804	**11,500*** 5 216*	**11,500*** 5 216*				
-20' 0" (-6.10 m)	**lbs.** kg	**16,100*** 7 303*	**16,100*** 7 303*	**20,000*** 9 072*	**20,000*** 9 072*	**30,500*** 13 835*	**30,500*** 13 835*	**26,200*** 11 884*	**26,200*** 11 884*	**20,700*** 9 389*	**20,700*** 9 389*	**16,400*** 7 439*	**16,400*** 7 439*	**11,800*** 5 352*	**11,800*** 5 352*						
-25' 0" (-7.62 m)	**lbs.** kg							**18,600*** 8 437*	**18,600*** 8 437*	**14,500*** 6 577*	**14,500*** 6 577*										

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 in compliance with ASME B30.25 SCRAP AND MATERIAL HANDLERS
3. 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.
4. 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.
5. These capacities apply to machines having 4550 psi boom hoist cylinder pressure.
6. Least stable position is over the side.
7. Operator should be fully acquainted with the Operator's Manual & Operating Safety Booklet, furnished by the manufacturers before operating the machine.
8. Capacities apply only to the machine as originally manufactured & normally equipped by LBX Company LLC.

600 LX Tier 3 Material Handler

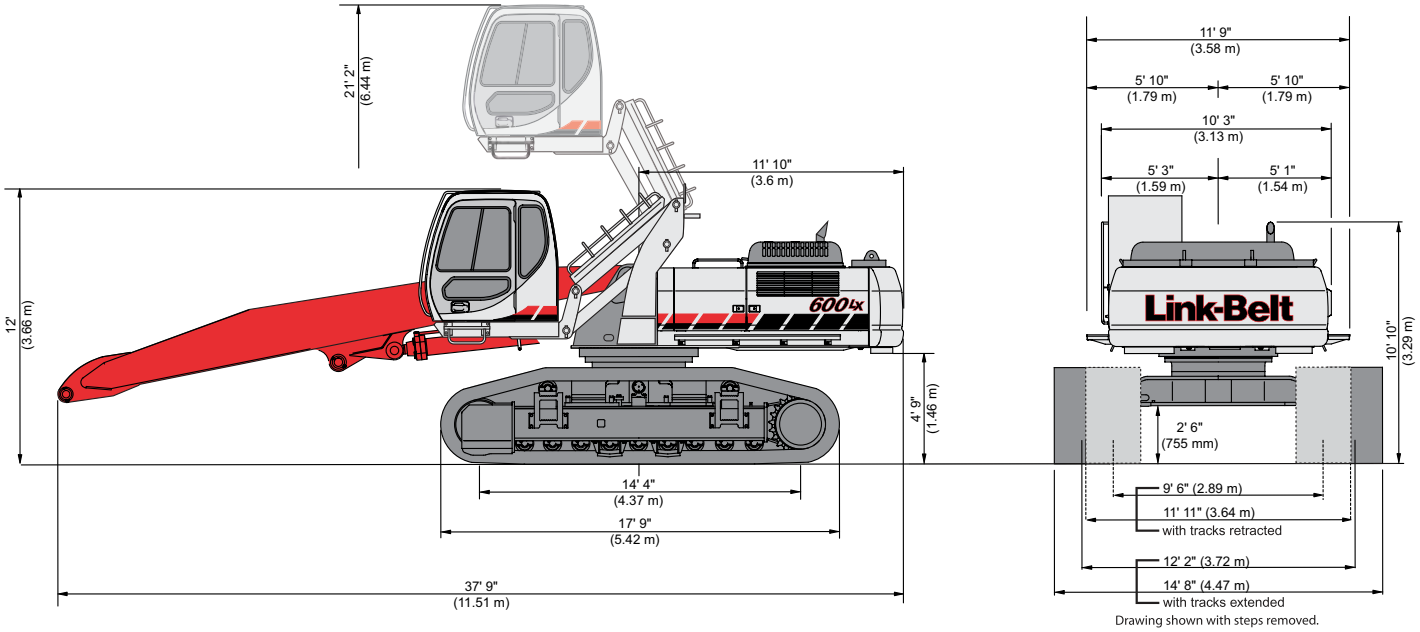
Standard Equipment

- Inte-LX® Computer Control System
- Five selectable working modes
- Auto Work Mode
- Attachment Work Mode
- Auto power-up mode
- Free swing control
- Cushioned attachment control
- Auto power swing
- Illuminated LCD service monitor
- Self-diagnostic system
- Tier III Isuzu diesel engine with electronic control
- Auto idle start
- Auto engine warm up
- Auto idling system
- One-touch idle
- Low idle up
- Reversible cooling fan
- Fuel cooler
- 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
- Climate control heater and air conditioner
- Safety glass front windows with automatic lock and intermittent rise-up windshield wiper and washer, large LEXAN® rear/ side windows
- 12 volt accessory outlet for cell phones/ audio extras
- Horn, interior lighting, AM/FM STEREO radio, digital clock, floor mat, cigarette lighter
- Rear view mirror, coat hook, storage compartment
- Gate lock and gate lock lever (control lock-out device)
- Single pedal travel
- Travel alarm
- Common key for cab & house doors, engine hood, tool box, and fuel cap
- Vandalism locks/guarding
- Hand grab rails both sides
- Nephron® hydraulic filtration system
- Boom and arm holding valves
- Integral cylinder cushioning
- Upper and lower undercovers
- Long undercarriage
- Sealed and lubricated track
- Catwalk
- Young 54' reach 3-piece material handling attachment or Young 55' reach 2-piece material handling attachment

Options

- 25 kW Baldor generator with Hubbell controller. Hydraulic driven package installed. Includes attachment magnet link.
- 72" manual tilt cab riser with platform, stairs and railing
- 96" manual tilt cab riser with platform, stairs and railing.
- 120" manual tilt cab riser with platform, stairs and railing.
- Clamshell bucket - standard weight material model (up to 3,000 lbs per cubic yard)
- Hydraulic cab riser: factory installed

Travel Dimensions - Hydraulic Riser



Drawing shown with steps removed.

Link-Belt
MATERIAL HANDLING EQUIPMENT

LBX
"Different by Design"

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

www.lbxco.com

Litho in USA 6/11 #LBX2189 (supersedes #LBX2125)

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