



# 4640B

## ROAD BUILDER - PRELIMINARY SPEC SHEET

### TECH SPECIFICATIONS

#### Engine

Isuzu AQ-6HK1X	
Horsepower (SAE J 1349, ISO 9249)	268hp (200 kW)
Displacement	475 cu in (7790 cc)
Maximum Torque (SAE J 1349, ISO 9249)	729 lbf-ft (988 N-m)
Starter	24V-5.0kW
Alternator	90 amp
Voltage	24V

#### Hydraulic System

##### Hydraulic Pumps

Main pumps - 2 variable displacement axial piston pumps with regulating system	
Max. Oil Flow	2 x 79.3 gpm (2 x 300 L/min)
Working Circuit Pressure	
Boom/Arm/Bucket	4970 psi (34.3 MPa)
Swing Circuit	4270 psi (29.4 MPa)
Travel Circuit	4970 psi (34.3 MPa)

##### Pilot Pump - 1 Gear Pump

Max. Oil Flow	7.5 gpm (28.5 L/min)
Working Circuit Pressure	570 psi (3.9 MPa)

##### Aux. Pump - 1 Gear pump

Max. Oil Flow	9.2 gpm (35.0 L/min)
Working Circuit Pressure	2990 psi (20.6 MPa)

##### Hydraulic Cylinders - NO. of Cylinders - Bore X Rod Diameter X Stroke

Boom	2 - 5.71" (145 mm) X 3.94" (100 mm) X 58.86" (1495 mm)
Arm	1 - 6.69" (170 mm) X 4.72" (120 mm) X 68.82" (1748 mm)
Bucket	1 - 5.91" (150 mm) X 4.13" (105 mm) X 47.64" (1210 mm)

#### Swing

Maximum Swing Speed	0-7.6 rpm
Swing Torque	110,600 lbf-ft (150,000 N-m)

#### Undercarriage

Carrier Rollers	2 per side
Track Rollers	9 per side
Link Pitch	8.50" (216mm)
Shoes	50 per side
Shoe Width	27.5" (700mm)
Ground Pressure	9.7 psi (0.067 MPa)

#### Travel System

Travel Speeds	1.9-3.1 mph (3.0-5.0 km/h)
Drawbar Pull	69,100 lbf (307 kN)
Gradeability	70% (35°)

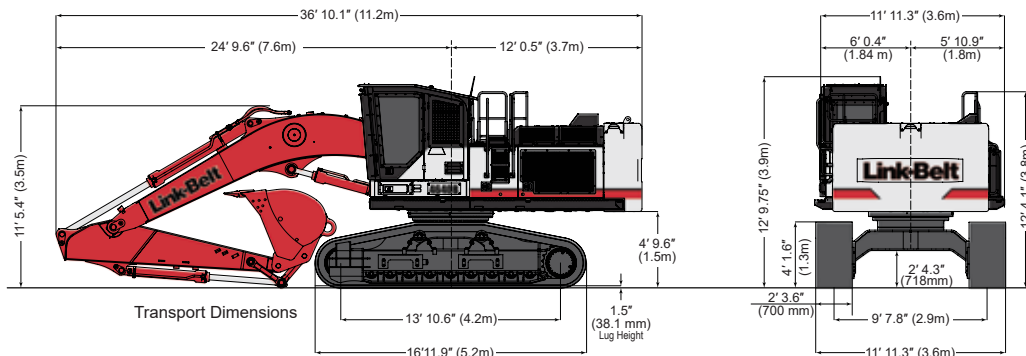
#### Lubricant and Coolant Capacity

Fuel Tank	216 gal (820 liters)
Hydraulic System	92 gal (350 liters)
Hydraulic Sump Tank	46 gal (175 liters)
Final Drive (per side)	2.6 gal (10.0 liters)
Swing Drive	2.6 gal (10.0 liters)
Engine Oil	12.7 gal (48.0 liters)
DEF Tank	40 gal (152 liters)
Cooling System	10.0 gal (38.0 liters)

#### Operating Weight

4640 RB 216 Link-Pitch - Operating mass with 6.45m HD Boom, 3.25m HD Arm, 700 mm grouser shoe, operator, lubricant, coolant and full fuel tank. (Bucket is not included.) ..... (96,300 lb) 43,700 kg

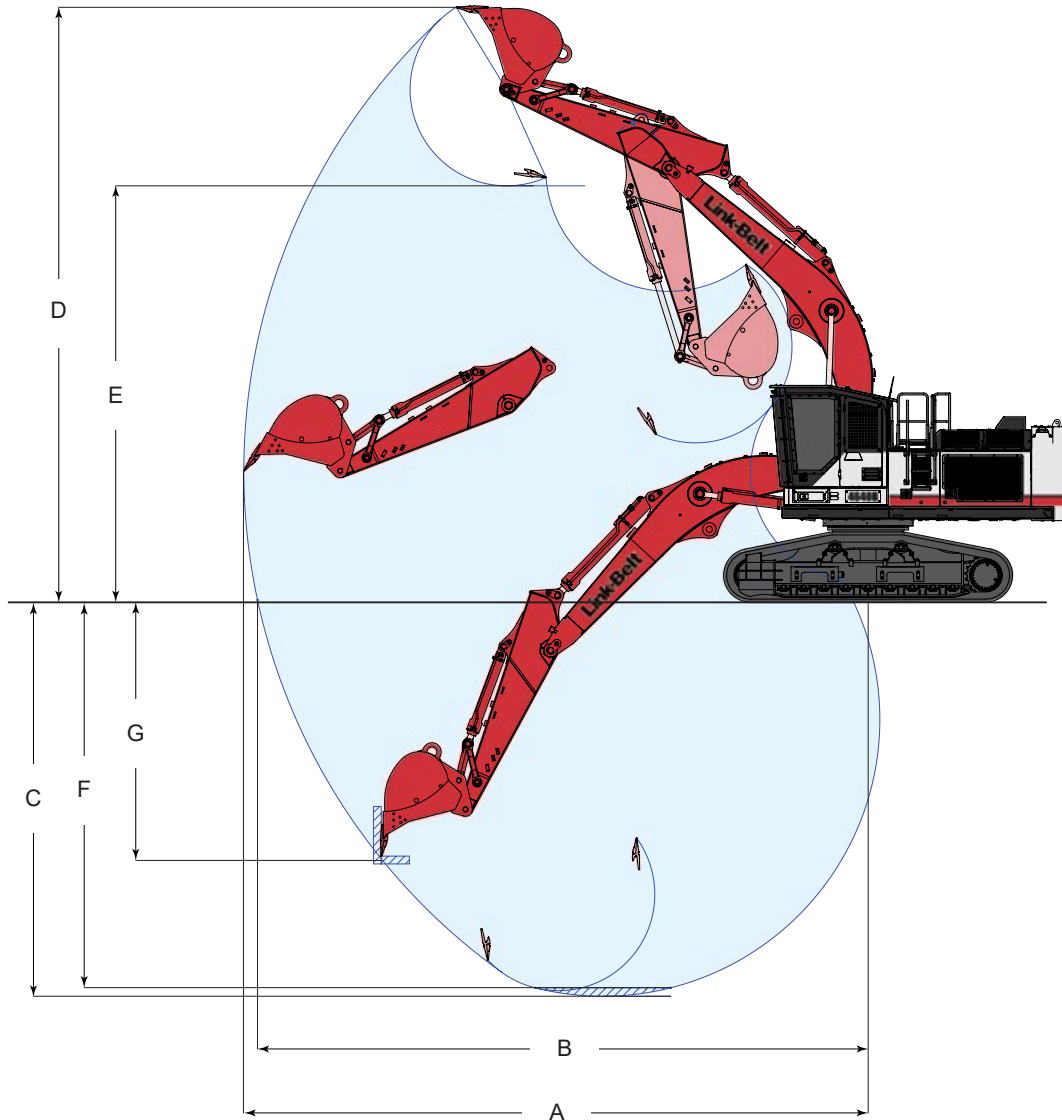
### TRANSPORTATION DIMENSIONS



**Link-Belt**  
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# Link-Belt Forestry 4640B Road Builder

## WORKING RANGE



4640B RB 216 Pitch Machine Equipped with 21' 2.0" (6.5 m) Boom, 10' 8" (3.3m) Arm	Standard Lift Position High-Wide Undercarriage	High Lift Position High-Wide Undercarriage
A. Maximum Reach	36' 10.1" (11.2m)	36' 10.1" (11.2m)
B. Maximum Reach @ Ground Level	36' 0.3" (11.0m)	36' 0.3" (11.0m)
C. Maximum Dig Depth	23' 4.7" (7.1m)	19' 7.4" (6.0m)
D. Maximum Dig Height	35' 0.1" (10.7m)	39' 8.0" (12.1m)
E. Maximum Dump Height	24' 5.3" (7.5m)	28' 6.9" (8.7m)
F. Digging Depth 8' (2.4m) Level Bottom	22' 10.8" (7.0m)	19' 1.1" (5.8m)
G. Maximum Vertical Wall Depth	15' 1.5" (4.6m)	15' 1.5" (4.6m)

LBX Company

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## LIFT CHARTS - 216 PITCH

(216 pitch) Standard Lift Position 10'8" (3.25 m) HD Arm with 21' 2" (6.45m) Boom

		10'0" (3.0 m)		15'0" (4.5 m)		20'0" (6.0 m)		25'0" (7.5m)		30'0" (9.0m)		Cap At Max. Reach	
		End	Side	End	Side	End	Side	End	Side	End	Side	End	Side
30'0"	lbs											14,250*	14,250*
9.0m)	kg											6,460*	6,460*
25'0"	lbs							16,000*	16,000*			13,050*	13,050*
(7.5m)	kg							7,255*	7,255*			5,915*	5,915*
20'0"	lbs							16,850*	16,850*			12,600*	12,600*
(6.0m)	kg							7,640*	7,640*			5,715*	5,715*
15'0"	lbs			26,150*	26,150*	20,750*	20,750*	17,950*	17,950*	14,100*	14,100*	12,650*	12,650*
(4.5m)	kg			11,860*	11,860*	9,410*	9,410*	8,140*	8,140*	6,395*	6,395*	5,735*	5,735*
10'0"	lbs			32,100*	32,100*	23,600*	23,600*	19,400*	19,400*	17,000*	16,900	13,100*	13,100*
(3.0m)	kg			14,560*	14,560*	10,700*	10,700*	8,795*	8,795*	7,710*	7,665	5,940*	5,940*
5'0"	lbs			36,050*	36,050*	25,950*	25,950*	20,650*	20,650*	17,450*	16,550	14,000*	14,000*
(1.5m)	kg			16,350*	16,350*	11,770*	11,770*	9,365*	9,365*	7,915*	7,505	6,350*	6,350*
Ground	lbs	16,550*	16,550*	37,000*	37,000*	27,100*	27,100*	21,300*	20,900	17,250*	16,350	15,550*	15,550*
Line	kg	7,505*	7,505*	16,780*	16,780*	12,290*	12,290*	9,660*	9,480	7,820*	7,415	7,050*	7,050*
-5'0"	lbs	31,450*	31,450*	35,650*	35,650*	26,700*	26,700*	20,900*	20,700			17,500*	17,500*
(-2.0m)	kg	14,265*	14,265*	16,170*	16,170*	12,110*	12,110*	9,480*	9,385			7,935*	7,935*
-10'0"	lbs	43,050*	43,050*	32,050*	32,050*	24,450*	24,450*	18,350*	18,350*			17,550*	17,550*
(-3.5m)	kg	19,525*	19,525*	14,535*	14,535*	11,090*	11,090*	8,320*	8,320*			7,960*	7,960*
-15'0"	lbs	32,750*	32,750*	25,250*	25,250*	18,550*	18,550*					16,650*	16,650*
(-5.0m)	kg	14,855*	14,855*	11,450*	11,450*	8,410*	8,410*					7,550*	7,550*

(216 pitch) High Lift Position 10'8" (3.25 m) HD Arm with 21' 2" (6.45m) Boom

		10'0" (3.0 m)		15'0" (4.5 m)		20'0" (6.0 m)		25'0" (7.5m)		30'0" (9.0m)		Cap At Max. Reach	
		End	Side	End	Side	End	Side	End	Side	End	Side	End	Side
30'0"	lbs					18,350*	18,350*					14,250*	14,250*
9.0m)	kg					8,320*	8,320*					6,460*	6,460*
25'0"	lbs					21,900*	21,900*	16,000*	16,000*			13,050*	13,050*
(7.5m)	kg					9,930*	9,930*	7,255*	7,255*			5,915*	5,915*
20'0"	lbs			25,350*	25,350*	22,950*	22,950*	19,950*	19,950*			12,600*	12,600*
(6.0m)	kg			11,495*	11,495*	10,405*	10,405*	9,045*	9,045*			5,715*	5,715*
15'0"	lbs			32,150*	32,150*	24,800*	24,800*	20,650*	20,650*	14,100*	14,100*	12,650*	12,650*
(4.5m)	kg			14,580*	14,580*	11,245*	11,245*	9,365*	9,365*	6,395*	6,395*	5,735*	5,735*
10'0"	lbs			36,300*	36,300*	26,700*	26,700*	21,450*	21,450*	17,900*	16,850	13,100*	13,100*
(3.0m)	kg			16,465*	16,465*	12,110*	12,110*	9,725*	9,725*	8,115*	7,640	5,940*	5,940*
5'0"	lbs			37,650*	37,650*	27,650*	27,650*	21,750*	21,350	17,550*	16,500	14,000*	14,000*
(1.5m)	kg			17,075*	17,075*	12,540*	12,540*	9,865*	9,680	7,960*	7,480	6,350*	6,350*
Ground	lbs	16,550*	16,550*	35,700*	35,700*	27,000*	27,000*	21,100*	20,850	16,150*	16,150*	15,550*	15,550*
Line	kg	7,505*	7,505*	16,190*	16,190*	12,245*	12,245*	9,570*	9,455	7,325*	7,325*	7,050*	7,050*
-5'0"	lbs	31,450*	31,450*	31,250*	31,250*	24,450*	24,450*	18,850*	18,850*			14,850*	14,850*
(-2.0m)	kg	14,265*	14,265*	14,170*	14,170*	11,090*	11,090*	8,550*	8,550*			6,735*	6,735*
-10'0"	lbs			24,350*	24,350*	19,450*	19,450*	13,700*	13,700*			12,800*	12,800*
(-3.5m)	kg			11,040*	11,040*	8,820*	8,820*	6,210*	6,210*			5,805*	5,805*

**Notes: Lifting Capacities.**

1. Lifting capacities shown should not be exceeded. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities for Log Loader attachment include a heel rack, but not grapple. Addition of grapple weight must be deducted from lift 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 w/ 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.





# Link-Belt<sup>®</sup> FORESTRY 4640B

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#LBX2481





# 4640B

## TIMBER LOADER - PRELIMINARY SPEC SHEET

### TECH SPECIFICATIONS

#### Engine

Isuzu AQ-6HK1X  
 Horsepower (SAE J 1349, ISO 9249) ..... 268hp (200 kW)  
 Displacement ..... 475 cu in (7790 cc)  
 Maximum Torque (SAE J 1349, ISO 9249) ..... 729 lbf-ft (988 N-m)  
 Starter ..... 24V-5.0kW  
 Alternator ..... 90 amp  
 Voltage ..... 24V

#### Hydraulic System

##### Hydraulic Pumps

Main pumps - 2 variable displacement axial piston pumps with regulating system  
 Max. Oil Flow ..... 2 x 79.3 gpm (2 x 300 L/min)  
 Working Circuit Pressure  
 Boom/Arm/Heel ..... 4970 psi (34.3 MPa)  
 Swing Circuit ..... 4270 psi (29.4 MPa)  
 Travel Circuit ..... 4970 psi (34.3 MPa)

##### Pilot Pump - 1 Gear Pump

Max. Oil Flow ..... 7.5 gpm (28.5 L/min)  
 Working Circuit Pressure ..... 570 psi (3.9 MPa)

##### Aux. Pump - 1 Gear pump

Max. Oil Flow ..... 9.2 gpm (35.0 L/min)  
 Working Circuit Pressure ..... 2990 psi (20.6 MPa)

#### Hydraulic Cylinders - NO. of Cylinders - Bore X Rod Diameter X Stroke

Boom	2 - 6.69" (170mm) X 4.53" (115mm)	X 52.83" (1342mm)
Arm	1 - 7.48" (190mm) X 5.12" (130mm)	X 64.69" (1643mm)
Heel	1 - 5.91" (150mm) X 4.13" (105mm)	X 44.88" (1140mm)

#### Swing

Maximum Swing Speed ..... 0-7.6 rpm  
 Swing Torque ..... 110,600 lbf-ft (150,000 N-m)

#### Undercarriage

Carrier Rollers ..... 2 per side  
 Track Rollers ..... 9 per side  
 Link Pitch ..... 8.50" (216mm)  
 Shoes ..... 50 per side  
 Shoe Width ..... 27.5" (700mm)  
 Ground Pressure ..... 10.0 psi (0.069 MPa)

#### Travel System

Travel Speeds ..... 1.9-3.1 mph (3.0-5.0 km/h)  
 Drawbar Pull ..... 69,000 lbf (307 kN)  
 Gradeability ..... 70% (35°)

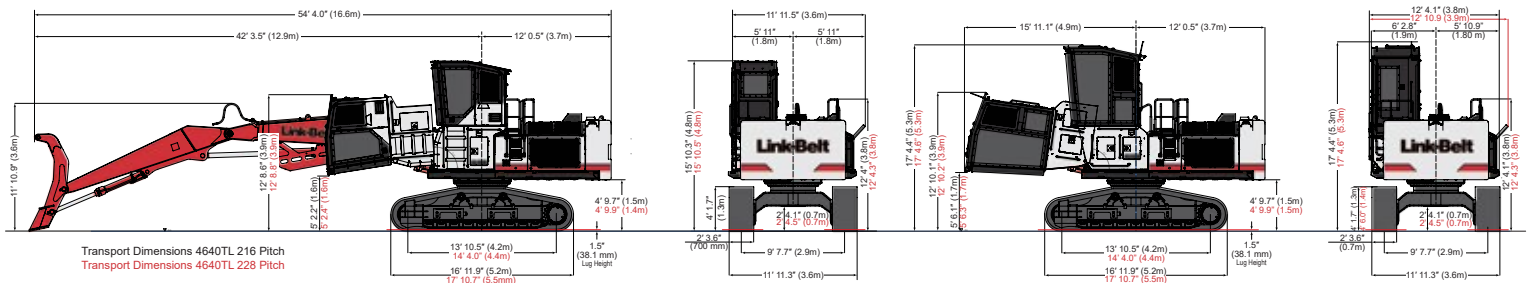
#### Lubricant and Coolant Capacity

Fuel Tank ..... 216 gal (820 liters)  
 Hydraulic System ..... 92 gal (350 liters)  
 Hydraulic Sump Tank ..... 46 gal (175 liters)  
 Final Drive (per side) ..... 2.6 gal (10.0 liters)  
 Swing Drive ..... 2.8 gal (10.5 liters)  
 Engine Oil ..... 12.7 gal (48.0 liters)  
 DEF Tank ..... 40 gal (152 liters)  
 Cooling System ..... 10.0 gal (38.0 liters)

#### Operating Weight

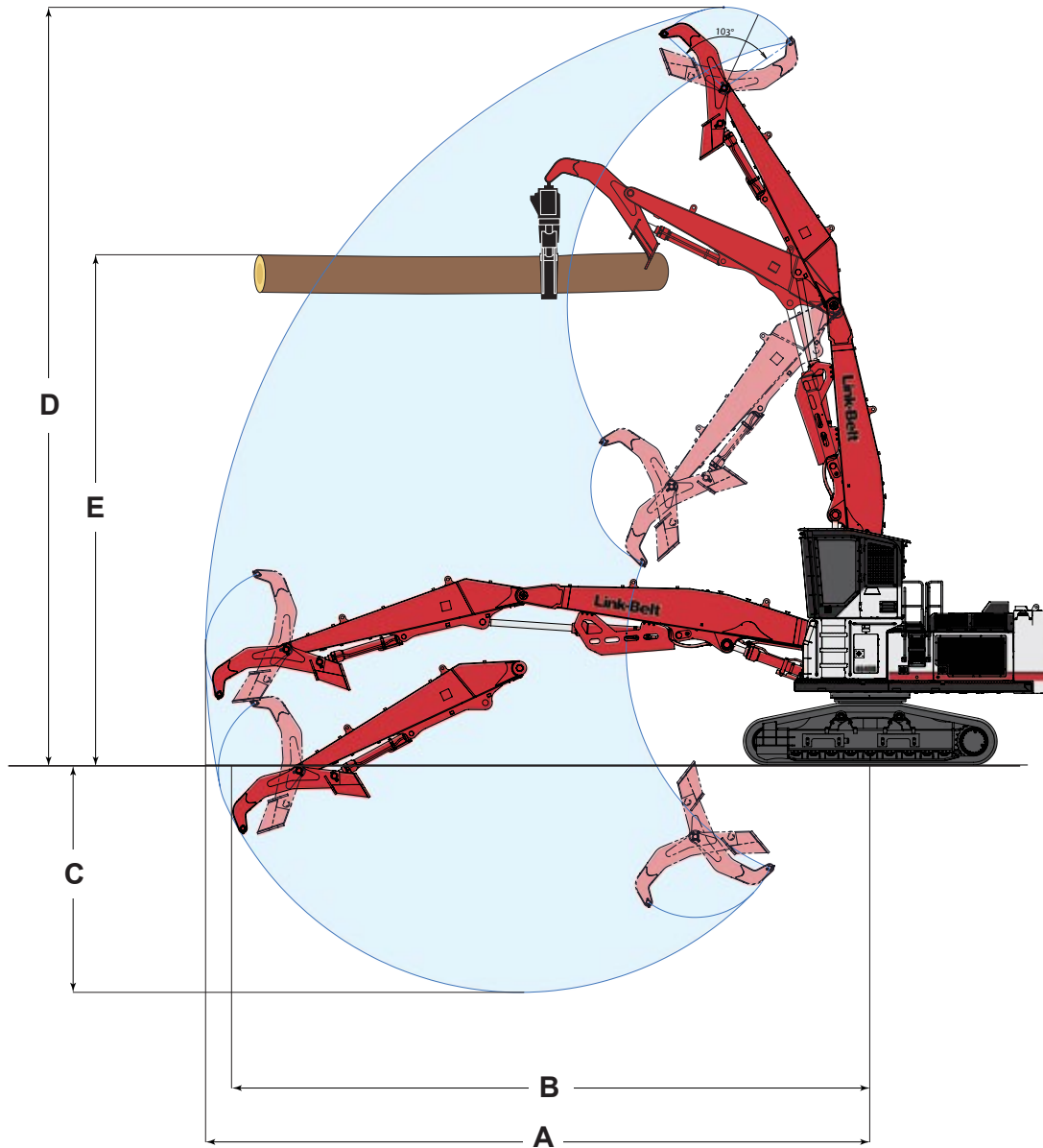
Side Entry Cab Operating Weight (no tool)\* ..... 103,467 lbs (46,932 kg)  
 Rear Entry Cab Operating Weight (no tool)\* ..... 104,731 lbs (47,505 kg)

### TRANSPORTATION DIMENSIONS



# Link-Belt Forestry 4640B Timber Loader

## WORKING RANGE



### 4640B TL

Machine Equipped with 23' 2" (7.06m) Boom, 16' 4" (4.98m) Arm	High-Wide Undercarriage 216 Pitch	High-Wide Undercarriage 228 Pitch
A. Maximum Reach	44' 7.8" (13.6m)	44' 7.8" (13.6m)
B. Maximum Reach @ Ground Level	43' 11.6" (13.4m)	43' 11.6" (13.4m)
C. Maximum Depth	15' 4.6" (4.7m)	15' 4.6" (4.7m)
D. Maximum Height	50' 8.7" (15.5m)	50' 8.3" (15.5m)
E. Maximum Log Level Height	34' 5.0" (10.5m)	34' 5.4" (10.5m)

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# Link-Belt Forestry 4640B Timber Loader

## LIFT CHARTS

16' 4" (4.98 m) Arm with 23' 2" (7.06 m) Boom and Live-Heel (High-Wide Undercarriage) (216 PITCH)

		10'0" (3.0 m)		15'0" (4.5 m)		20'0" (6.0 m)		25'0" (7.5m)		30'0" (9.0 m)		35'0" (10.5 m)		40'0" (12.0 m)		Cap At Max. Reach	
		End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side
45' 0"	lbs					27,250*	27,250*									21,650*	21,650*
(13.5m)	kg					12,360	12,360									9,820	9,820
40' 0"	lbs							25,100*	24,700	19,300*	17,550					17,900*	16,850
(12.0m)	kg							11,385	11,200	8,750	7,960					8,115	7,640
35' 0"	lbs							25,150*	25,150*	22,850*	18,350	16,500*	13,450			16,000*	13,300
(10.5m)	kg							11,405	11,405	10,360	8,320	7,480	6,100			7,255	6,030
30' 0"	lbs							24,850*	24,850*	22,600*	18,600	19,600	13,950			14,900*	11,300
(9.0m)	kg							11,270	11,270	10,250	8,435	8,890	6,325			6,755	5,125
25' 0"	lbs							25,250*	25,200*	22,750*	18,500	19,650	14,000	15,300	10,700	14,250*	10,000
(7.5m)	kg							11,450	11,430	10,315	8,390	8,910	6,350	6,935	4,850	6,460	4,535
20' 0"	lbs							26,350*	24,750	23,300*	18,200	19,500	13,850	15,350	10,700	13,400	9,200
(6.0m)	kg							11,950	11,225	10,565	8,255	8,845	6,280	6,960	4,850	6,075	4,170
15' 0"	lbs					28,100*	28,100*	27,900*	23,900	24,100*	17,650	19,150	13,550	15,200	10,600	12,750	8,700
(4.5m)	kg					12,745	12,745	12,655	10,840	10,930	8,005	8,685	6,145	6,890	4,805	5,780	3,945
10' 0"	lbs					36,200*	32,450	29,550*	22,750	24,100	16,950	18,750	13,150	15,000	10,400	12,400	8,450
(3.0m)	kg					16,420	14,715	13,400	10,315	10,930	7,685	8,500	5,960	6,800	4,715	5,620	3,830
5' 0"	lbs					38,900*	30,300	30,750*	21,550	23,300	16,250	18,300	12,700	14,750	10,150	12,300*	8,400
(1.5m)	kg					17,640	13,740	13,945	9,770	10,565	7,370	8,300	5,760	6,690	4,600	5,575	3,810
Ground	lbs			37,850*	37,850*	39,600*	28,450	29,950	20,500	22,650	15,600	17,850	12,300	14,550	9,950	10,800*	8,550
Line	kg			17,165	17,165	17,960	12,900	13,585	9,295	10,270	7,075	8,095	5,575	6,595	4,510	4,895	3,875
-5' 0"	lbs			27,650*	27,650*	37,750*	27,200	29,050	19,700	22,100	15,100	17,550	12,000	13,400*	9,800	10,400*	9,100
(-2.0m)	kg			12,540	12,540	17,120	12,335	13,175	8,935	10,020	6,845	7,960	5,440	6,075	4,445	4,715	4,125
-10' 0"	lbs	14,800*	14,800*	28,950*	28,950*	33,150*	26,550	26,000*	19,250	20,350*	14,850	15,200*	11,900			11,900*	10,600
(-3.5m)	kg	6,710	6,710	13,130	13,130	15,035	12,040	11,790	8,730	9,230	6,735	6,890	5,395			5,395	4,805
-15' 0"	lbs					25,600*	25,600*	20,150*	19,150							17,500*	16,650
(-5.0m)	kg					11,610	11,610	9,135	8,685							7,935	7,550

16' 4" (4.98 m) Arm with 23' 2" (7.06 m) Boom and Live-Heel (High-Wide Undercarriage) (228 PITCH)

		10'0" (3.0 m)		15'0" (4.5 m)		20'0" (6.0 m)		25'0" (7.5m)		30'0" (9.0 m)		35'0" (10.5 m)		40'0" (12.0 m)		Cap At Max. Reach	
		End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side	End	Side
45' 0"	lbs					27,250*	27,250*									21,650*	21,650*
(13.5m)	kg					12,360	12,360									9,820	9,820
40' 0"	lbs							25,100*	25,100*	19,250*	18,850					17,900*	17,900*
(12.0m)	kg							11,385	11,385	8,730	8,550					8,115	8,115
35' 0"	lbs							25,150*	25,150*	22,850*	19,650					16,000*	14,350
(10.5m)	kg							11,405	11,405	10,360	8,910					7,255	6,505
30' 0"	lbs							24,850*	24,850*	22,600*	19,850	20,550*	15,000			14,900*	12,250
(9.0m)	kg							11,270	11,270	10,250	9,000	9,320	6,800			6,755	5,555
25' 0"	lbs							25,250*	25,250*	22,750*	19,800	20,500*	15,050	17,450	11,600	14,250*	10,900
(7.5m)	kg							11,450	11,450	10,315	8,980	9,295	6,825	7,915	5,260	6,460	4,940
20' 0"	lbs							26,350*	26,250*	23,300*	19,450	20,650*	14,900	17,500	11,600	13,950*	10,050
(6.0m)	kg							11,950	11,905	10,565	8,820	9,365	6,755	7,935	5,260	6,325	4,555
15' 0"	lbs					28,100*	28,100*	27,900*	25,500	24,100*	18,900	20,950*	14,600	17,350	11,500	13,900*	9,500
(4.5m)	kg					12,745	12,745	12,655	11,565	10,930	8,570	9,500	6,620	7,865	5,215	6,300	4,305
10' 0"	lbs					36,200*	34,500	29,550*	24,350	24,850*	18,250	21,200*	14,200	17,150	11,300	13,650*	9,250
(3.0m)	kg					16,420	15,645	13,400	11,040	11,270	8,275	9,615	6,440	7,775	5,125	6,190	4,195
5' 0"	lbs					38,900*	32,450	30,750*	23,150	25,250*	17,550	20,850	13,750	16,900	11,050	12,300*	9,200
(1.5m)	kg					17,640	14,715	13,945	10,500	11,450	7,960	9,455	6,235	7,665	5,010	5,575	4,170
Ground	lbs			37,950*	37,950*	39,600*	30,600	30,900*	22,100	24,900*	16,900	20,300*	13,350	15,950*	10,850	10,800*	9,350
Line	kg			17,210	17,210	17,960	13,875	14,015	10,020	11,290	7,665	9,205	6,055	7,230	4,920	4,895	4,240
-5' 0"	lbs			27,650*	27,650*	37,750*	29,350	29,450*	21,300	23,400*	16,400	18,500*	13,100	13,450*	10,750	10,400*	9,950
(-2.0m)	kg			12,540	12,540	17,120	13,310	13,355	9,660	10,610	7,435	8,390	5,940	6,100	4,875	4,715	4,510
-10' 0"	lbs	14,750*	14,750*	28,950*	28,950*	33,150*	28,700	26,000*	20,850	20,350*	16,100	15,200*	12,950			11,900*	11,600
(-3.5m)	kg	6,690	6,690	13,130	13,130	15,035	13,015	11,790	9,455	9,230	7,300	6,890	5,870			5,395	5,260
-15' 0"	lbs					25,650*	25,650*	20,200*	20,200*							9,150*	9,150
(-5.0m)	kg					11,630	11,630	9,160	9,160							4,150	4,150

**Notes: Lifting Capacities.**

1. Lifting capacities shown should not be exceeded. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities for Log Loader attachment include a heel rack, but not grapple. Addition of grapple weight must be deducted from lift 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 w/ 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.





# Link-Belt<sup>®</sup> FORESTRY 4640B

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