

HTC-8650 50-ton

Telescopic Truck Crane

110' (33.53 m) Full Power 4-Section Boom

172' (52.43 m) On-Board Tip Height

Two Powertrain Options

Two Attachment Options



The New HTC-8650 Features The Confined Area Lifting Capacities (CALC[™]) System

Link-Belt

Loaded With Advances...Not Compromises

LinkBell

2 1

• COMFORT • CONTROL •

Maximum Comfort and Control...standard operating values on the HTC-8650 with its revolutionary fibrous composite cab – the ULTRA-CAB[™], gear motor winches, and integral rated capacity limiter (RCL).

An Office With A View....

A major step forward in the construction equipment industry, the new environmental ULTRA-CAB found on the HTC-8650 is molded from an LFC•2000 construction process featuring laminated fibrous composite material. Laminated fibrous composites are a hybrid class of composites with lamination techniques. The layers of fiber-reinforced material are built up with the fiber directions of each layer typically oriented in different directions to add strength and stiffness.

This fibrous composite technology offers superior advantages over steel in sound reduction with sound levels onehalf as loud as conventional cabs. This fibrous composite material, while eliminating corrosion, also adds dimensional stability and allows modern styling techniques to be utilized including molded radii and ribs. Designed with the operator in mind, the cab features:

Fabric Seat New improved six-way adjustable seat with height-adjustable armrests and 45° reclining seat back.

Hydraulic Control Levers Armrest mounted, responsive dual axis controllers standard. Single axis available.

> Lift-Up Armrest Left armrest lifts up out of the way providing outstanding operator ease in entering or exiting the cab. For safety, all control functions become inactive when the armrest is in raised position.

Overhead Console with switches for outrigger controls, lights, fan,

windshield wiper, function lockout, swing park brake, and ignition.

Bubble Level Sight level mounted on side console.

Single Foot Pedal Control Hydraulic pilot controlled for simultaneous extension or retraction of power boom sections.

Ducted Air through automotive style directional vents.

Comprehensive Instrumentation Corner post mounted backlighted gauges monitor hydraulic oil temperature, fuel level, coolant temperature, oil pressure and voltage. Corner post also has stop engine and check engine indicator lights and tachometer.

Additional Cab Features Include:

- Dash-less design for superior visibility.
- Automotive style windshield and large side window provides operator with 25% more glass area.
- Sliding right side and rear windows and swing-up roof window provide excellent ventilation.
- Large sweep electric wipers.

Integral Rated Capacity Limiter

This "LMI" system aids the operator in safe and efficient operation by continuously monitoring boom length, boom angle, head height, radius of load, machine configuration, allowed load, actual load, and percent of allowed load. This Microguard 434 graphic audio-visual system features improved access time, improved radio frequency shielding, a new display panel with large liquid crystal alphanumeric display, total system



override capabilities to provide for rigging requirements and an expanded memory which provides capacity information on all possible lift configurations.

An exclusive new feature available on the HTC-8650 is the Operator Defined Area Alarm. By setting two points, the operator creates an imaginary vertical plane to maintain a safe working distance from nearby obstacles. Should the operator attempt to operate the crane beyond the plane, the RCL will sound an alarm.

An optional graphic display bar, positioned near the top of the windshield for optimum viewing during crane operation, is available. This bar constantly alerts the operator of the current lift capacity situation through a series of green

(within capacity range), yellow (approaching 90% chart limit), and red (100% of chart limit) lights.

State-of-the-Art Wire Harness

The HTC-8650 with its multi-plex gauge package has automotive-type wire harnesses with sealed relays and connectors throughout for outstanding long term reliability. In addition, all wires have a

flame retardant, polyethylene insulation, resulting in a higher heat resistant wiring system.

POWER·PRODUCTIV

Link-Belt has never been content simply to build cranes the same way as everyone else...the new HTC-8650 proves that again. With 172' (52.43 m) of on-board tip height, superior capacities, innovative engineering, attachment flexibility, and available counterweight lowering for balanced axle loadings for travel, this crane is loaded with advances instead of compromises.

Transportability

The HTC-8650 offers superior roadability complete with 172 ft. (52.43 m) of on-board tip height. Transportability is enhanced by the unique counterweight design. In addition to the standard 5,000 lb. (2268 kg) counterweight, two 3,000



Ib. (1 361 kg) slab-type counterweight pieces and counterweight lowering are available. This hydraulic removal system can position one or both of these counterweight slabs on the carrier deck for most efficient axle load distribution or can lower them directly

onto a trailer for transport. Counterweight removal cylinders are recessed in the upper frame for protection.

Wide Stance Carrier An 8' 6" (2.59 m) wide carrier with 231" (5.87 m) wheelbase provides 'big feet' for a stable lifting base. The Link-Belt 8 x 4 carrier features:

- Large strategically located grab handles/steps and midmount access ladders provide superior accessibility to carrier deck areas and engine for routine maintenance and service.
- Flat deck area.
- Lightweight aluminum outrigger floats with a "quick latch" feature.
- Throttle-up switch at outrigger control station.
- Self-storing fifth outrigger steel pontoon.
- Full air, S-cam brakes on all wheel ends with automatic slack adjustors.
- Rack and pinion steering puts the operator in complete control. This two steering gear system does not have exposed machined surfaces which can be easily damaged by rocks and debris.
- Air service ports.
- Complete DOT approved light package including side mounted clearance/turn indicator lights.
- Aluminum fuel tank for less condensation and corrosion.

Power Train Utilization of a Detroit Diesel Series 50 engine and Eaton transmission translates to maximum parts availability as these components are common to the construction and on-highway truck industry. The Detroit Diesel 315 horsepower (235 kW) engine, coupled to the

11-speed forward, 3-speed reverse transmission, features electronic throttle control and cruise control. The 8650 can travel at a .5 mph *(.80 km/hr)* creep speed @ idle for maximum maneuverability on the job site and run up to 58 mph *(93 km/hr)* top speed on the highway, unmatched in the industry today. If "more power" is what you desire, an optional 365 horsepower Detroit Diesel Series 60 engine is available.

Carrier Cab The carrier cab and engine cowling are also manufactured from laminated fibrous composite material which is combined with acoustical treatments to assure the operator of maximum highway comfort.



Additional features include dash mounted comprehensive instrumentation with attractive lighted gauges, sliding side and rear windows and roll up/down door window for excellent ventilation, fully adjustable air ride fabric

Elink.Bel

seat, suspended pedals, and rear view mirrors. Cruise control and engine brake controls are conveniently located on transmission shift lever.



VITY·RELIABILITY

Paint Coating System Link-Belt utilizes a twopart coating technology coupled with a pre-assembly paint process to provide the finest quality coating system available today. This new coating technology provides superior adhesion and abrasion resistance. Because all parts are painted before assembly, 100% coverage of each part is realized, virtually eliminating corrosion bleed-through that is common with other paint processes.

Serviceability Wide opening engine doors provide excellent accessibility, fittings are staggered for easy servicing, and standard quick disconnects installed at various locations in the hydraulic system allow the hydraulic pressure to be quickly and easily checked with Link-Belt's exclusive diagnostic kit (optional). The driver can use the stop engine and check engine indicator lights to troubleshoot the engine. An engine diagnostic connector, located under the carrier cab dash, allows an engine service technician to further analyze engine problems with an engine diagnostic data reader.



The standard load hoist system consists of:

- 2M main winch with twospeed motor and automatic brake for power up/down mode of operation.
- Asynchronous, parallel double cross-over grooved drums minimize rope harmonic motion, improving spooling and increasing rope service life.
- Standard rotation resistant rope.
- An available two-speed 2M auxiliary winch. On the two-winch machines, an independent winch function lockout is provided. When this mode is selected, the operator won't inadvertently operate a winch which has been shut down preventing a two blocking or rope "bird nesting" situation.

Multi-Function Control For greater productivity and control, the five pump-section hydraulic circuit provides smooth, simultaneous function of winch, boomhoist, swing, and drums.

State-Of-The-Art Oil Seal Technology

The HTC-8650 features improved seals on boomhoist, boom extend/retract, and outrigger jack cylinders. This new 'redundant' oil seal technology incorporates 3 rod sealing surfaces versus one or

two found on competitive models. This new seal design is



highly resistant to side loading and pressure spikes for outstanding sealing performance and when incorporated with full O-ring face seal tech-

nology used throughout the machine, leads to an environmentally dry system.

Computer-Aided Design

Advanced, high speed computer-aided, stateof-the-art designs are measured by their reliable performance through extensive testing and retesting before Link-Belt endorses a new idea, assuring the customer of real user value and maximum on-the-job performance.

• I N N O V A T I O N S •

The New HTC-8650 telescopic truck crane features unmatched innovations such as the Confined Area Lifting Capacity System (CALCTM) and two modes of boom extension...innovative design features that have become industry standards from Link-Belt.



Retracted Outriggers 7' 9" (2.36 m) Spread



Intermediate Outriggers 14' 2" (4.32 m) Spread



Fully Extended Outriggers 20' 6" (6.25 m) Spread

Confined Area Lifting Capacities (CALC[™])

The HTC-8650 is specifically designed to allow contractors to work in confined work areas where full outrigger extension is not possible. The CALC system provides the operator with three outrigger positions (full extension, intermediate, and retracted). Outriggers may be extended to an intermediate position where working



area is limited or, in extremely tight quarters, lifts can be made with outriggers fully retracted. In the fully retracted outrigger mode, lift capacities are significantly improved over the 'on tires' configuration. When the **extend position pins**, located on top of the outrigger boxes, are engaged, the operator can set the crane in the intermediate or fully retracted

outrigger mode without having to leave the cab. A thorough, easy-to-read crane rating manual gives the operator comprehensive capacities covering the three outrigger positions, five counterweight configurations, and all attachments plus 'on tires' capacities.



4-Section Full Power Boom With A-max Mode



Exclusive **A-max** boom extend mode



Basic boom extend mode – boom mode 'B'

Two standard boom extension modes enhance the 8650's performance and provides the operator the capability to match the crane's configuration to specific jobsite conditions. For maximum tip height the basic boom extension mode (mode 'B') offers a full power, synchronized mode of telescoping all sections proportionally to 110' (33.53 m). To enhance performance, the exclusive **A**-max mode (or mode 'A') extends only the inner mid section to 60.3' (18.38 m) offering substantially increased capacities for in-close, maximum capacity picks.

Boom Concept The arrangement of high strength angle chords (corners) with high formability steel sidewall (embossments) places the most steel at corners where maximum stress is concentrated. The result: maximum strength with minimum weight.

Embossed Sidewall Stiffeners Increases sidewall stiffness.

Sidewall Design Concept Not only do the embossments increase sidewall stiffness, but because of their placement they naturally transfer stresses uniformly to the high strength angle chords (corners) — a concept ~ derived from Link-Belt lattice boomtechnology.

Boom Wear Shoes Boom wear shoes are replaceable without boom disassembly and utilize simple fast external adjusters.



Stowable Attachments Swing-away lattice flys are easily stored for transportability or can be removed to meet specific road laws.

Authorized Link-Belt Distributor

Angle Chords 100,000 psi (*689.5 MPa*) high \ strength steel angle chords are precision

machined for boom sidewall overlap. This design allows all interior and exterior boom welds to be offset or staggered for maximum structural integrity.

Time Proven Boom Design Over two decades and thousands of hydraulic crane booms later, Link-Belt's exclusive, patented design is unchanged, state-ofthe-art — before its time; providing superior capacities, tip heights and reliability.

It is true testimony to Link-Belt's engineering design achievement that this design concept is being imitated today for optimum performance.

NO WELDS IN HIGH STRESS CORNERS

Attachment Flexibility

- Full power, fully synchronized 35' 6" 110' (10.82 – 33.53 m) four-section boom.
- Stowable, 34' (10.36 m) offsettable (1°, 15°, or 30° offset), one piece lattice type fly with lugs to allow addition of second section.
- Stowable, 34' 56' (10.36 m 17.07 m) offsettable (1°, 15°, or 30° offset) 2-piece, double swing-around, lattice type fly.

Added Value Attachment Features

- Fast, Easy, Fly Pinning The fly pinning tool helps eliminate the age old problem of difficult fly pin alignment and pin installation.
- Quick Reeve Head Machinery for fast, easy parts of line change.
- Hammerhead Boom Nose Allows the operator to work at high boom angles without fouling wire rope.
- Deflector Rollers Rollers prevent premature wire rope wear when working at low boom angles.
- Lightweight Nylon Head Sheaves Reduce overall machine weight and increases lift capacities.
- Available Auxiliary Lifting Sheave Can be used for quick lifts with one or two parts of line when the boom head has multiple reeving. And it does not have to be removed when fly is erected in working position.

Link-Belt Construction Equipment Company Lexington, Kentucky

A unit of Sumitomo Construction Machinery Co., Ltd. www.linkbelt.com



Lifting Capacities

Telescopic Boom Truck Crane

HTC-8650

50–ton (45.36 metric tons)

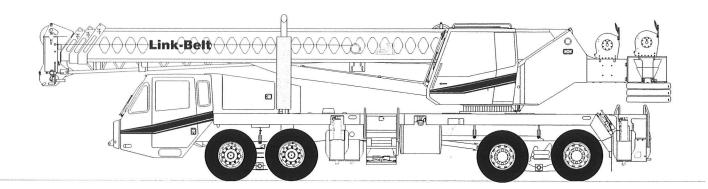
Boom and Fly Capacities for this machine are listed by the following sections.

Fully Extended Outriggers with 15,100 lbs (6 849 kg) of Counterweight

- Working Range Diagram
- 35.5' to 60.3' (10.8 18.4 m) Main Boom Capacities, Boom Mode "A" (A-Max)
- 35.5' to 110' (10.8 33.5 m) Main Boom Capacities, Boom Mode "B" (Standard)
- 28.5' to 51' (8.7 15.5 m) Fly Capacities, "Standard" Mode

On Tires with 15,100 lbs (6 849 kg) of Counterweight

- Pick & carry 35.5' to 60.3' (10.8 18.4 m) Main Boom Capacities, Boom Mode "A" (A-Max)
- Pick & carry 35.5' to 80' (10.8 24.38 m) Main Boom Capacities, Boom Mode "B" (Standard)
- Stationary 35.5' to 60.3' (10.8 18.4 m) Main Boom Capacities, Boom Mode "A" (A-Max)
- Stationary 35.5' to 80' (10.8 24.38 m) Main Boom Capacities, Boom Mode "B" (Standard)



CAUTION: This material is supplied for reference use only. Operator must refer to in–cab Crane Rating Manual to determine allowable machine lifting capacities and operating procedures.



TIRE INFLATION Tire Size Operation Tire Pressure (psi) 120 120 Stationary 11 R 22.5 1 mph **PONTOON LOADINGS** Maximum Pontoon Ground Bearing Pressure: Maximum Pontoon Load: 76,000 lb 170 psi **BOOM EXTENSION** Boom Mode "A" (A–Max) Only inner mid section Boom Length (ft.) 1/00 00000000000000 35.5 telescopes 00 45 9/00 55 0 °2/00 00//00 0 60.3 Inner Mid Section **Base Section** 298" Stroke Boom Length (ft.) Boom Mode "B" (Standard) Inner mid, outer mid and tip 200 00000000000 35.5 sections telescope simultaneously. [@/@/@/00 00000000000000 1 45 55 0000000000000000000 65 00/00 000/00 000/00 0000000/00 000000000000000000 75 000000000000000000 85 00000000000000 95 20000 00/00000 000000/00 20000 000 00/00 300 00 000000000000000 110 00/0000000000/00 Tip Section Outer Mid Inner Mid **Base Section** 298" Stroke Section 298" Stroke Section 298" Stroke

WIND SPEED RESTRICTIONS

If The Wind Speed Exceeds:	Rated Lifted Capacities Must Be Reduced By At Least:
20 – 29 MPH	40%
30 – 39 MPH	70%
40 MPH	Crane operation must be shutdown and the boom retracted and lowered to horizontal.
 These restrictions are base Additional reductions are r During high winds, the operation 	equired for loads with large wind sail area. ed on crane on fully extended outriggers. equired for other configurations. erator shall add 10° to all minimum boom ility and shall not boom down below that angle.

WINCH PERFORMANCE

	Winch Line Pulls							
Two Spee	ed Winch	(Ft.)						
Low Speed	High Speed	Lavar						
Available Lb* Available Lb		Layer	Total					
15,519	7,185	97	97					
14,037	6,499	107	204					
12,814	5,932	118	322					
11,787	5,457	128	450					
10,912	5,052	138	588					
	Available Lb* 15,519 14,037 12,814 11,787	Available Lb* Available Lb 15,519 7,185 14,037 6,499 12,814 5,932 11,787 5,457 10,912 5,052	Available Lb* Available Lb Layer 15,519 7,185 97 14,037 6,499 107 12,814 5,932 118 11,787 5,457 128 10,912 5,052 138					

*Maximum lifting capacity: Type DB Rope = 11,770 lbs., Type RB Rope = 9,080 lbs.

WIRE ROPE CAPACITY

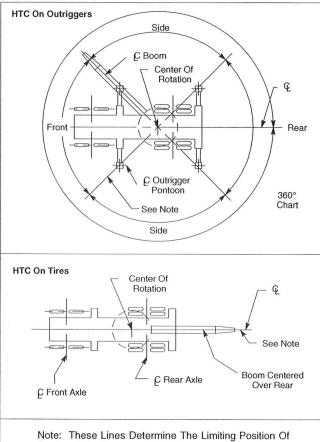
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Maxi	imum Lifting	Capacities	Based On Wire Rope Strength
Parts of	5/8"	5/8"	
Line	Type DB	Type RB	Notes
1	11,770	9,080	Capacities shown are in pounds
2	23,540	18,160	and working loads must not exceed the ratings on the
3	35,310	27,240	capacity charts in the Crane
4	47,080	36,320	Rating Manual.
5	58,850	45,400	Capacity deducts for auxiliary lifting devices do not apply for
6	70,620	54,480	wire rope strength capacities.
7	82,390	63,560	Study Operator's Manual for wire rope inspection procedures and
8	94,160	72,640	single part of line applications.
9	105,930	81,720	
		LBCE DE	SCRIPTION
TYPE DB			– Warrington Seale – Extra Im- Preformed – Right Regular Lay –
TYPE RB			stant – Compact Strand, High Right Regular Lay

HYDRAULIC CIRCUIT PRESSURE SETTINGS

Function	Pressure (psi)
Front And Rear Winch	3,400
Outriggers	3,000
Boom Hoist	3,500
Telescope	3,000
Swing	2,000
Steering	2,000
Bumper Outrigger	650
Pilot Control	500

CONSTRUCTION EQUIPMENT

WORKING AREAS



Note: These Lines Determine The Limiting Position Of Any Load For Operation Within Working Areas Indicated.

CAPACITY DEDUCTIONS

Load Handling Equipment	Weight (Ib)
40 Ton Quick Reeve 4 Sheave Hook Block (See Hook Block For Actual Weight)	780
50 Ton Quick Reeve 5 Sheave Hook Block (See Hook Block For Actual Weight)	1,090
8.5 Ton Hook Ball (See Hook Ball For Actual Weight)	360
Auxiliary Lifting Devices	Weight (lb)
Auxiliary Head Attached	100
Lifting From Main Boom With:	
28.5 Ft. Or 51 Ft. Fly Stowed On Boom Base (See Operation Note 5)	0
28.5 Ft. Offset Fly Erected But Not Used	3,900
51 Ft. Offset Fly Erected But Not Used	7,800
Lifting From 28.5 Ft. Offset Fly With:	
22.5 Ft. Fly Tip Erected But Not Used	Prohibited
22.5 Ft. Fly Tip Stowed On 28.5 Ft. Offset Fly	Prohibited
Note: Capacity deductions are for Link-Belt supplied eq	uipment only.

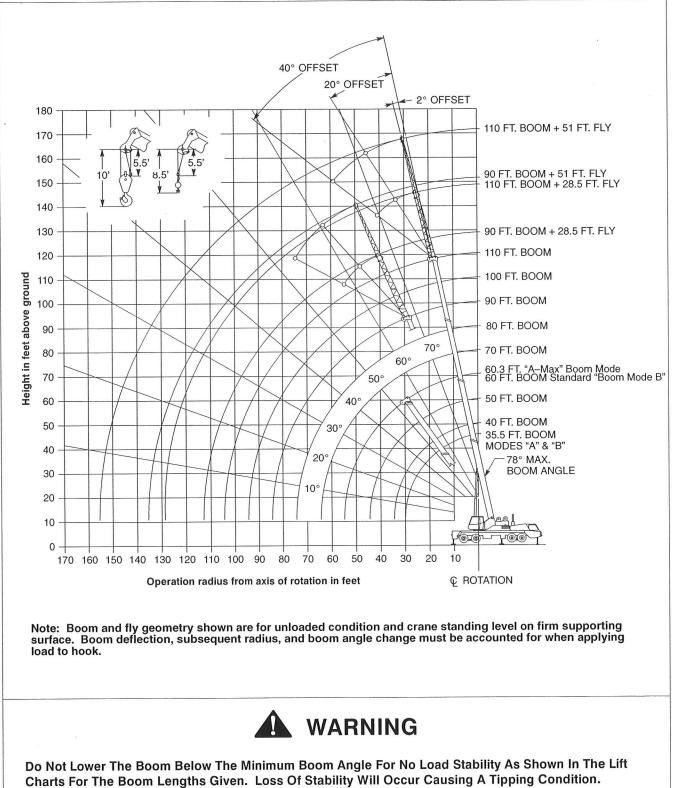
n n n, a n n	<u></u>	(<u>/0000 // 00 //00</u>	/00	OF THE MAN	
		Mode "A" (A—Max)	Mode "B" (Standard)	28.5'	51'
	4,300			_	-
ON TIRES	7,900	35.5'-60.3'		_	-
ON THES	11,500	35.5-60.3	35.5'–80'	-	-
	15,100 (optional)			-	-
	4,300	-	-	-	-
RETRACTED	7,900		35.5'–70'	_	-
HETHACTED	11,500	35.5'-60.3'	35.5'–80'	-	-
	15,100 (optional)		35.5'–90'	-	-
	4,300		35.5'-100'	-	-
INTERMEDIATE	7,900	35.5'-60.3'	35.5'-110'	-	_
INTERMEDIATE	11,500	35.5-60.3	35.5'-110'	-	-
	15,100 (optional)		35.5'-110'	35.5'-110'	-
	4,300				
FULL	7,900	35.5'-60.3'	05 E' 110'	05 F' 110'	05 5' 110'
FULL	11,500	33.3-60.3	35.5'-110'	35.5'–110'	35.5'-110'
	15,100 (optional)				

ALLOWABLE CRANE CONFIGURATION

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CONSTRUCTION EQUIPMENT

WORKING RANGE DIAGRAM



Rated I In Pour		Capacitie	es	FU		RIGGERS	- 1	5,100 #			MAIN E "A" (A-		
Load		35.5 Ft.			40 Ft.		Load		50 Ft.			60.3 Ft.	
Radius (Ft.)	×°	360°	Over Rear	×°	360°	Over Rear	Radius (Ft.)	×°	360°	Over Rear	×°	360°	Over Rear
10	68.0	100,000	100,000	70.5	80,900	80,900	10	75.0	72,800	72,800			
12	64.5	76,000	76,000	67.5	73,200	73,200	12	72.5	65,800	65,800	76.5	50,900	50,90
15	58.5	65,800	65,800	62.5	63,600	63,600	15	69.0	57,700	57,700	73.5	47,300	47,30
20	48.0	53,400	53,400	54.0	52,000	52,000	20	62.5	47,500	47,500	68.5	39,300	39,30
25	34.5	41,900	41,900	44.0	41,700	41,700	25	55.5	40,300	40,300	63.0	33,500	33,50
30				31.0	32,200	33,400	30	48.0	31,800	33,100	57.5	28,800	28,80
vin.Bm.	0.0	17,800	17,800	0.0	15,400	15,400	35	39.0	23,700	27,100	51.0	23,400	25,30
Ang./ Cap.	(30.0)	13-12-0-\$9-14(-22)	1997-1997-1997-1997-1997- 	(34.5)			40	27.5	18,300	22,600	44.0	18,100	22,40
Oap.	(0010)			(0.110)			45				36.0	14,300	18,70
							50				26.0	11,500	15,30
							Min.Bm. Ang./ Cap.	0.0 (44.5)	10,100	10,100	0.0 (54.8)	6,600	6,600

() Reference Radius For Min. Boom Angle Capacities (Shown in Parenthesis) Are In Feet.

	Rated Lifting Capacities In Pounds FULL OUTRIGGERS						-	15,100 # CTWT "B" (Standard)					
Load		35.5 Ft.			40 Ft.		Load		50 Ft.			60 Ft.	
Radius (Ft.)	×°	360°	Over Rear	×°	360°	Over Rear	Radius (Ft.)	×°	360°	Over Rear	x°	360°	Over Rear
10	68.0	100,000	100,000	70.5	37,900	37,900	10	74.5	37,900	37,900	77.5	37,900	37,900

64.5				A CARLES CART - CARLES								
04.5	76,000	76,000	67.5	37,900	37,900	12	72.5	37,900	37,900	76.0	37,900	37,900
58.5	65,800	65,800	62.5	37,900	37,900	15	69.0	37,900	37,900	73.0	37,900	37,900
48.0	53,400	53,400	54.0	37,900	37,900	20	62.5	37,900	37,900	68.0	37,900	37,900
34.5	41,900	41,900	44.0	37,900	37,900	25	55.5	37,900	37,900	62.5	37,900	37,900
			31.0	32,900	33,900	30	48.0	33,600	34,500	56.5	33,900	34,500
0.0	17,800	17,800	0.0	14,700	14,700	35	39.0	25,400	28,500	50.5	25,800	28,900
(30.0)			(34.5)	n nationality	100000000000000000000000000000000000000	40	27.5	19,900	24,000	43.5	20,400	24,300
(00.0)			(01.0)			45				35.5	16,500	20,800
						50				25.0	13,500	17,400
						Min.Bm.	0.0	10,000	10,000	0.0	7,100	7,100
						Ang./ Cap.	(44.5)		na seventreat v	(54.5)	enciencie de la dest	AND TO SALENCE AND
	48.0 34.5	48.0 53,400 34.5 41,900 0.0 17,800	48.0 53,400 53,400 34.5 41,900 41,900 0.0 17,800 17,800	48.0 53,400 53,400 54.0 34.5 41,900 41,900 44.0 0.0 17,800 17,800 0.0	48.0 53,400 53,400 54.0 37,900 34.5 41,900 41,900 44.0 37,900 0.0 17,800 17,800 0.0 14,700	48.0 53,400 53,400 54.0 37,900 37,900 34.5 41,900 41,900 44.0 37,900 37,900 0.0 17,800 17,800 0.0 14,700 14,700	48.0 53,400 53,400 54.0 37,900 37,900 20 34.5 41,900 41,900 44.0 37,900 37,900 25 0.0 17,800 17,800 0.0 14,700 33,900 35 (30.0) 17,800 17,800 0.0 14,700 14,700 40 45 50 50 50 50 50 50	48.0 53,400 53,400 54.0 37,900 37,900 20 62.5 34.5 41,900 41,900 44.0 37,900 37,900 25 55.5 0.0 17,800 17,800 0.0 14,700 14,700 35 39.0 (30.0) 17,800 17,800 0.0 14,700 14,700 40 27.5 45 50 50 50 50 50 50	48.0 53,400 53,400 54.0 37,900 37,900 20 62.5 37,900 34.5 41,900 41,900 44.0 37,900 37,900 25 55.5 37,900 0.0 17,800 17,800 0.0 14,700 14,700 39.0 25,400 33,600 (30.0) 17,800 0.0 14,700 14,700 35 39.0 25,400 (30.0) 17,800 0.0 14,700 14,700 40 27.5 19,900 (30.0) 17,800 0.0 14,700 14,700 40 27.5 19,900 (30.0) 17,800 0.0 14,700 14,700 40 27.5 19,900 (45) 50 10 10 10 10 10 10	48.0 53,400 53,400 54.0 37,900 38,900 30,00 46,0 27,5 19,900 24,000 45,5 50 50 <td>48.0 53,400 53,400 54.0 37,900 37,900 37,900 37,900 37,900 37,900 68.0 34.5 41,900 41,900 44.0 37,900 37,900 25 55.5 37,900 37,900 62.5 0.0 17,800 17,800 0.0 14,700 14,700 35 39.0 25,400 28,500 50.5 (30.0) 17,800 17,800 0.0 14,700 14,700 40 27.5 19,900 24,000 43.5 50 1 50 1 50 1 55.5 50 10,000 10,000 0.0 Min.Bm. 0.0 10,000 10,000 0.0 0.0 10,000 0.0</td> <td>48.0 53,400 53,400 54.0 37,900 37,900 37,900 37,900 37,900 37,900 37,900 37,900 37,900 37,900 37,900 37,900 37,900 68.0 37,900 37,900 37,900 37,900 62.5 37,900 37,900 62.5 55.5 62.5 37,900 62.5 56.5 56.5 56.5 56.5 56.5 56.5</td>	48.0 53,400 53,400 54.0 37,900 37,900 37,900 37,900 37,900 37,900 68.0 34.5 41,900 41,900 44.0 37,900 37,900 25 55.5 37,900 37,900 62.5 0.0 17,800 17,800 0.0 14,700 14,700 35 39.0 25,400 28,500 50.5 (30.0) 17,800 17,800 0.0 14,700 14,700 40 27.5 19,900 24,000 43.5 50 1 50 1 50 1 55.5 50 10,000 10,000 0.0 Min.Bm. 0.0 10,000 10,000 0.0 0.0 10,000 0.0	48.0 53,400 53,400 54.0 37,900 37,900 37,900 37,900 37,900 37,900 37,900 37,900 37,900 37,900 37,900 37,900 37,900 68.0 37,900 37,900 37,900 37,900 62.5 37,900 37,900 62.5 55.5 62.5 37,900 62.5 56.5 56.5 56.5 56.5 56.5 56.5

() Reference Radius For Min. Boom Angle Capacities (Shown in Parenthesis) Are In Feet.

Link-Belt

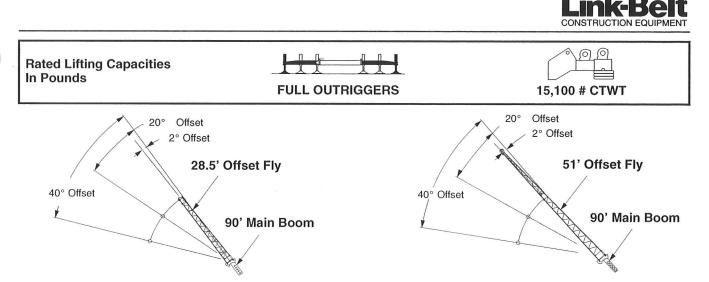
Link-Belt CONSTRUCTION EQUIPMENT

Rated In Pou	-	Capaciti	es	FUL	L OUTR	IGGERS	-				MAIN	∞ _⁄∞ BOOM andard)	<u> </u>
Load	Load 70 Ft.						Load		90 Ft.		100 Ft.		
Radius (Ft.)	×°	360°	Over Rear	×°	360°	Over Rear	Radius (Ft.)	×°	360°	Over Rear	×°	360°	Over Rear
12	78.0*	37,900	37,900				20	77.0	28,900	28,900			
15	76.0	37,900	37,900	78.0*	35,400	35,400	25	74.0	28,300	28,300	76.0	24,000	24,000
20	72.0	37,900	37,900	74.5	34,700	34,700	30	70.5	24,900	24,900	73.0	22,600	22,600
25	67.5	37,900	37,900	71.0	34,300	34,300	35	67.0	22,100	22,100	70.0	20,100	20,100
30	62.5	32,900	32,900	67.0	30,400	30,400	40	63.5	19,800	19,800	67.0	18,000	18,000
35	57.5	25,900	29,000	63.0	26,100	27,300	45	59.5	16,900	17,900	63.5	16,200	16,200
40	52.5	20,600	24,600	58.5	20,700	24,500	50	55.5	14,000	16,200	60.0	14,100	14,500
45	46.5	16,700	21,100	54.0	16,800	21,200	55	51.0	11,800	14,700	56.5	11,800	13,200
50	40.5	13,800	17,700	49.0	13,900	17,800	60	46.5	10,000	13,100	52.5	10,100	12,100
55	33.0	11,500	15,000	44.0	11,700	15,200	65	41.5	8,600	11,400	48.5	8,600	11,200
60	23.5	9,700	12,800	38.0	9,900	13,000	70	36.0	7,300	9,900	44.5	7,400	10,000
65				31.0	8,400	11,300	75	29.5	6,200	8,700	39.5	6,300	8,800
70				22.0	7,100	9,800	80	21.0	5,300	7,600	34.5	5,400	7,700
Min.Bm.	0.0	5,000	5,000	0.0	3,600	3,600	85				28.5	4,600	6,800
Ang./ Cap.	(64.5)			(74.5)		2101291219191	90				20.5	4,000	6,000
oup.	(01.0)			(1		Min.Bm. Ang./ Cap.	0.0 (84.5)	2,500	2,500	0.0 (94.5)	1,600	1,600

		110 Ft.			
Load Radius (Ft.)	×°	360°	Over Rear		
25	77.5	19,500	19,500		
30	75.0	19,500	19,500		
35	72.5	18,500	18,500		
40	70.0	16,500	16,500		
45	67.0	14,700	14,700		
50	64.0	13,300	13,300		
55	61.0	11,900	12,100		
60	57.5	10,200	11,100		
65	54.0	8,700	10,100		
70	50.5	7,500	9,200		
75	46.5	6,400	8,400		
80	42.5	5,500	7,600		
85	38.0	4,700	6,900		
90	33.0	4,000	6,000		
95	27.5	3,400	5,300		
100	20.0	2,900	4,700		
Min.Bm.	0.0	900	900		
Ang./Cap.	(104.5)				

() Reference Radius For Min. Boom Angle Capacities (Shown In Parenthesis) Are In Feet. * This Capacity Based On Maximum Obtainable Boom Angle.

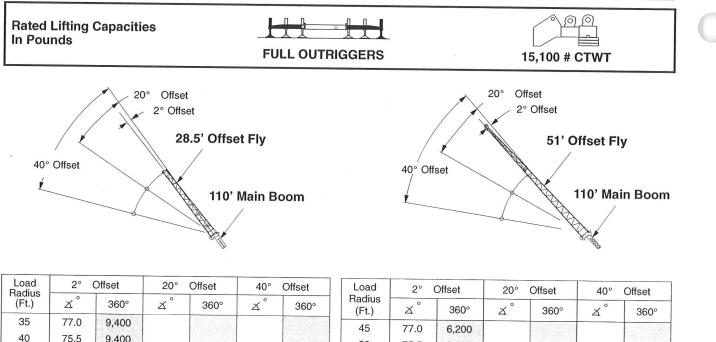
- 8-



Load		Offset	20°	Offset	40°	Offset	Load		Offset	20°	Offset	40°	Offset
Radius (Ft.)	×°	360°	x°	360°	×°	360°	Radius (Ft.)	×°	360°	×°	360°	×°	360°
30	77.0	16,900					35	78.0*	9,200		Sales Arris		
35	74.5	14,200					40	76.0	8,600				
40	72.0	13,500	75.5	10,600			45	74.0	8,100				
45	69.5	12,800	73.0	10,100	76.5	7,900	50	72.0	7,600	78.0*	5,500		
50	67.0	12,100	70.5	9,700	73.5	7,700	55	70.0	7,000	75.5	5,200		
55	64.5	11,500	68.0	9,200	71.0	7,400	60	67.5	6,600	73.5	4,900		
60	61.5	10,700	65.0	8,800	68.0	7,200	65	65.5	6,100	71.0	4,700	77.0	3,70
65	58.5	9,500	62.0	8,400	65.0	7,000	70	63.0	5,800	69.0	4,400	74.5	3,60
70	55.0	8,300	59.0	8,000	62.0	6,900	75	61.0	5,400	66.5	4,200	72.0	3,50
75	51.5	7,200	56.0	7,600	58.5	6,800	80	58.5	5,100	64.0	4,100	69.5	3,40
80	48.0	6,300	52.0	6,700	55.0	6,700	85	56.0	4,800	61.5	3,900	66.5	3,300
85	44.5	5,500	48.5	5,800	51.0	6,000	90	53.0	4,600	59.0	3,800	63.5	3,200
90	40.5	4,800	44.0	5,100	46.0	5,200	95	50.5	4,300	56.0	3,600	60.5	3,200
95	36.0	4,200	39.5	4,400	41.0	4,500	100	47.5	4,100	53.0	3,500	57.5	3,100
100	31.0	3,600	34.5	3,800			105	44.5	3,700	50.0	3,400	54.0	3,100
105	25.0	3,100	28.0	3,300			110	41.0	3,300	46.5	3,300	50.0	3,100
110	16.5	2,700					115	37.0	2,900	43.0	3,200	45.5	3,10
Min.Bm.	0.0	800	0.0	900	0.0	900	120	33.0	2,500	38.5	2,800	40.0	2,800
Ang./		errad graden			0.55	Part of the last	125	28.0	2,200	33.0	2,400		
Cap.							130	22.0	1,900	26.0	2,000		
							135	11.0	1,300				
							Min.Bm. Ang./ Cap.	0.0	100	0.0	200	0.0	300

* This Capacity Based On Maximum Obtainable Boom Angle.

CONSTRUCTION EQUIPMENT



35	//.0	9,400		Sec. Sec.		
40	75.5	9,400				
45	73.5	9,400	77.0	9,600		
50	71.5	9,400	75.0	9,200	78.0*	7,600
55	69.5	9,300	73.0	8,600	75.5	7,400
60	67.5	8,600	70.5	8,000	73.5	7,200
65	65.0	8,000	68.5	7,400	71.0	7,000
70	62.5	7,500	66.0	7,000	68.5	6,600
75	60.0	7,000	63.5	6,500	66.0	6,200
80	57.5	6,100	61.0	6,200	63.5	5,900
85	54.5	5,300	58.0	5,700	60.5	5,600
90	51.5	4,600	55.0	5,000	57.5	5,200
95	48.5	4,000	52.0	4,300	54.0	4,500
100	45.0	3,500	48.5	3,700	50.5	3,900
105	42.0	3,000	45.0	3,200	46.5	3,400
110	38.0	2,500	41.0	2,700	42.5	2,800
115	34.0	2,200	37.0	2,300		
120	29.5	1,800	32.0	1,900		
125	24.0	1,500	26.0	1,500		
130	16.0	1,200				

	1 1999 14 14 19 19 19 19 19 19 19 19 19 19 19 19 19
Main Boom Angle Unless Main	In Working Position Below 11.5° Boom Length Is 109 Ft. Or Less, ur Causing A Tipping Condition.
Chiec Loss of Stability will Occ	ar causing A ripping condition.

(Ft.)	×°	360°	×°	360°	×°	360°	
45	77.0	6,200				· · · · · · · · · · · · · · · · · · ·	-
50	75.5	6,200					
55	74.0	6,200					
60	72.5	6,200	77.5	4,900			
65	70.5	6,100	75.5	4,700			
70	68.5	5,800	73.5	4,500			
75	66.5	5,400	71.5	4,300	76.5	3,500	
80	64.5	5,000	70.0	4,200	74.5	3,400	1000
85	62.5	4,700	68.0	4,000	72.5	3,300	The second se
90	60.5	4,400	65.5	3,900	70.0	3,300	the second se
95	58.5	4,100	63.5	3,700	68.0	3,200	and the second se
100	56.0	3,900	61.5	3,600	65.5	3,200	and the second se
105	53.5	3,400	59.0	3,400	63.0	3,100	
110	51.0	3,000	56.5	3,300	60.5	3,100	
115	48.0	2,600	54.0	3,000	57.5	3,000	
120	45.5	2,200	50.5	2,600	54.5	2,800	
125	42.5	1,900	47.5	2,200	51.0	2,400	ĺ
130	39.0	1,600	44.0	1,900	47.0	2,000	l
135	35.5	1,300	40.5	1,600	42.5	1,700	
140			36.5	1,300			

A WARNING

Do Not Lower 51 Ft. Offset Fly In Working Position Below 34.0° Main Boom Angle Unless Main Boom Length Is 98 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.

*This Capacity Based On Maximum Obtainable Boom Angle.



Rated Lifting Capacities In Pounds Stationary **Boom Centered Over Rear**

ON TIRES

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15,100 # CTWT

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MAIN BOOM "A" (A-Max)

Load Ra-	35.	5 Ft.	40 Ft.	
dius (Ft.)	×°	Load	Х°	Load
10	68.0	49,000		
12	64.0	44,800	67.5	44,700
15	58.5	39,600	62.5	39,400
20	48.0	26,000	54.0	25,800
25	34.5	18,200	43.5	18,100
30			31.0	13,300
Min.Bm.	0.0	13,300	0.0	10,200
Ang./Cap.	(30.0)		(34.5)	

Load	50 Ft.			60.3 Ft.	
Radius (Ft.)	×°	Load	×°	Load	
15	69.0	25,500			
20	62.5	25,500	68.0	17,700	
25	55.5	17,900	62.5	17,700	
30	47.5	13,100	56.5	12,900	
35	39.0	9,800	50.5	9,700	
40	27.5	7,400	43.5	7,300	
45			36.0	5,500	
50			25.5	4,100	
Min.Bm.	0.0	5,700	0.0	2,900	
Ang./Cap.	(44.5)		(54.8)		

Rated Lifting Capacities In Pounds Stationary **Boom Centered Over Rear**

15

20

25

30

35

40

45

50

Min.Bm.

Ang./Cap.

68.5

62.0

55.0

47.5

38.5

27.5

0.0

(44.5)



15,100 # CTWT

0000 / 00 /00 //00 MAIN BOOM "B" (Standard)

	5 Ft.	40 Ft.	
Х°	Load	×°	Load
68.0	49,000		
64.0	44,800	67.5	37,900
58.5	39,600	62.5	37,900
48.0	26,000	54.0	26,300
34.5	18,200	43.5	18,600
		31.0	13,800
0.0	13,300	0.0	10,700
(30.0)		(34.5)	
50 Ft.		60 Ft.	
Х°	Load	×°	Load
	∠ ° 68.0 64.0 58.5 48.0 34.5 0.0 (30.0)	∠ Load 68.0 49,000 64.0 44,800 58.5 39,600 48.0 26,000 34.5 18,200 0.0 13,300 (30.0) 50 Ft	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

29,200

26,900

19,100

14,300

11,000

8,600

6,900

67.5

62.0

56.0

50.0

43.0

35.0

25.0

0.0

(54.5)

19,500

19,500

14,600

11,300

8,900

7,100

5,700

4,600

Load		Ft.	80 Ft.		
Radius (Ft.)	۲°	Load	×°	Load	
20					
25	66.5	14,800			
30	62.0	14,800	66.0	14,200	
35	57.0	11,600	62.0	11,700	
40	52.0	9,200	57.5	9,300	
45	46.0	7,300	53.0	7,500	
50	40.0	5,900	48.5	6,100	
55	32.5	4,700	43.0	4,900	
60	23.0	3,800	37.5	4,000	
65			30.5	3,200	
70			21.5	2,500	
Min.Bm.	0.0	3,000	0.0	1,900	
Ang./Cap.	(64.5)		(74.5)		

() Reference Radius For Min. Boom Angle Capacities (Shown in Parenthesis) Are In Feet.

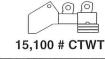
Link-Belt CONSTRUCTION EQUIPMENT

00 **Rated Lifting Capacities In Pounds** 0 0 00/00 0000000000/00 Pick & Carry – 1 MPH MAIN BOOM **Boom Centered Over Rear ON TIRES** 15,100 # CTWT "A" (A-Max) 35.5 Ft. 40 Ft. 50 Ft. 60.3 Ft. Load Ra-Load Radius (Ft.) dius (Ft.) X Load Load X Load X Load X 10 68.0 36,100 15 68.5 23,200 64.0 32,900 67.5 32,800 20 62.0 23,200 68.0 17,700 12 15 58.5 28,800 62.5 28,700 25 55.5 17,900 62.5 17,700 20 48.0 23,500 53.5 23,400 30 47.5 13,100 56.5 12,900 18,100 35 39.0 9,800 50.5 9,700 25 34.5 18,200 43.5 30 31.0 13,300 40 27.5 7,400 43.5 7,300 45 36.0 5,500 13,300 0.0 10,200 Min.Bm. 0.0 Ang./Cap. (30.0) (34.5) 50 25.5 4,100 0.0 5,700 0.0 2,900 Min.Bm. Ang./Cap. (44.5)(54.8)

Rated Lifting Capacities In Pounds Pick & Carry – 1 MPH Boom Centered Over Rear

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<u>, 2000 / 00 / 00</u> MAIN BOOM "B" (Standard)

Load	35.	5 Ft.	40 Ft.	
Radius (Ft.)	х°	Load	Х°	Load
10	68.0	36,100		
12	64.0	32,900	67.5	33,100
15	58.5	28,800	62.5	29,000
20	48.0	23,500	53.5	23,700
25	34.5	18,200	43.5	18,600
30			31.0	13,800
Min.Bm.	0.0	13,300	0.0	10,700
Ang./Cap.	(30.0)		(34.5)	

Load	50 Ft.		60	Ft.
Radius (Ft.)	×°	Load	×°	Load
15	68.5	29,200		
20	62.0	24,000	67.5	19,500
25	55.0	19,100	62.0	19,500
30	47.5	14,300	56.0	14,600
35	38.5	11,000	50.0	11,300
40	27.5	8,600	43.0	8,900
45			35.0	7,100
50			25.0	5,700
Min.Bm.	0.0	6,900	0.0	4,600
Ang./Cap.	(44.5)		(54.5)	

Land	70 Ft.		80 Ft.	
Load Radius (Ft.)	×°	Load	×°	Load
20		ALL AND ALL		
25	66.5	14,800		
30	62.0	14,800	66.0	14,200
35	57.0	11,600	62.0	11,700
40	52.0	9,200	57.5	9,300
45	46.0	7,300	53.0	7,500
50	40.0	5,900	48.5	6,100
55	32.5	4,700	43.0	4,900
60	23.0	3,800	37.5	4,000
65			30.5	3,200
70			21.5	2,500
Min.Bm.	0.0	3,000	0.0	1,900
Ang./Cap.	(64.5)		(74.5)	

() Reference Radius For Min. Boom Angle Capacities (Shown in Parenthesis) Are In Feet.

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