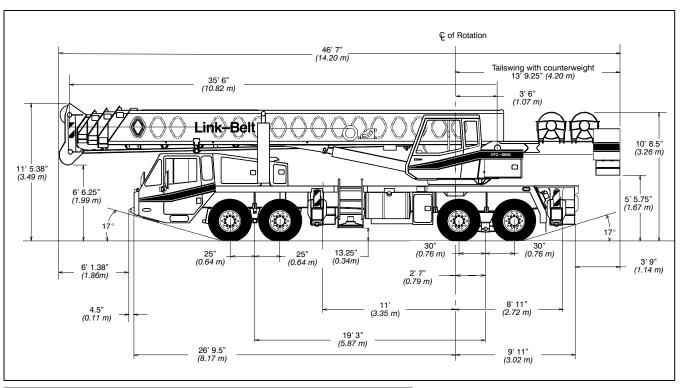


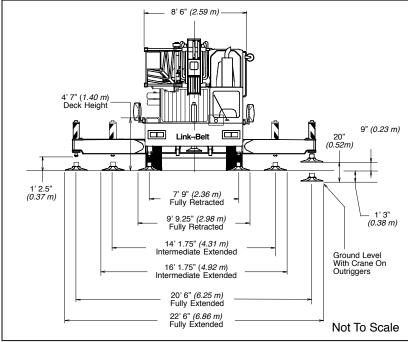
Specifications

Telescopic Boom Truck Crane

HTC-8660

60-ton (54.43 metric tons)





General Dimensions	feet	meters
Turning radius – wall to wall	49' 9.56"	15.17
Turning radius – curb to curb	41' 10.5"	12.76
Ground clearance	13.25"	0.34
Tailswing	13' 9.25"	4.20

Litho in U.S.A. 3/03 #5381 (Supersedes #5355)



Upper Structure

Boom

Patented Design

- Boom side plates have diamond shaped impressions for superior strength to weight ratio and 100,000 p.s.i. (689.5 MPa) steel angle chords for lateral stiffness.
- Boom telescope sections are supported by top, bottom and adjustable side wear shoes to prevent metal to metal contact.

Boom

- 35.5' 110' (10.82 33.53 m) four-section full-power boom
- Two mode boom extension
- The basic mode is the full power, synchronized mode of telescoping all sections proportionally to 110' (33.53 m).
- The exclusive "A-max" mode (or mode 'A') extends only the inner mid section to 60.3' (18.38 m) offering increased capacities for in-close, maximum capacity picks.
- Mechanical Boom Angle Indicator

Boom Head

- Five 16.5" (0.42 m) root diameter nylon sheaves to handle up to ten parts of wire
- Easily removable wire rope guards
- Rope dead end lugs provided on each side of boom head.
- Boom head designed for quick reeve of hook block.

Boom Elevation

- Two Link-Belt designed hydraulic cylinders with holding valves and bushings in each end.
- Hand control for controlling boom elevation from -3° to $+78^{\circ}$

Optional Auxiliary Lifting Sheave

- Single 16.5" (0.42 m) root diameter nylon sheave with removable wire rope guard, mounted to boom.
- Use with one or two parts of line off the optional front winch.
- Does not affect erection of fly or use of main head sheaves for multiple reeving.

Optional

- 40-ton (36.3 mt) guick-reeve hook block
- 60-ton (54.43 mt) guick-reeve hook block
- 70-ton (63.30 mt) quick-reeve hook block
- 8.5-ton (7.71 mt) hook ball
- Boom floodlight.

FIv

Optional

- 34' (10.36 m) one-piece lattice fly, stowable, offsettable to 2°, 20° and 40°
- 34' 56' (10.36 17.07 m) two-piece (bifold) lattice fly, stowable, offsettable to 2°, 20° and 40°

Cab and Controls

Environmental Ultra-Cab ™

· Laminated fibrous composite material; isolated from sound with acoustical fabric insulation.

- Windows are tinted and tempered safety
- Sliding rear and right side windows and swing-up roof window for maximum visibility and ventilation.
- Slide-by-door opens to 3' (0.91 m) width
- Six-way adjustable seat, with seat belt, for maximum operator comfort.
- Hand held outrigger controls and sight level bubble located in cab.
- Diesel cab heater
- Top hatch window wiper
- Audible swing alarm
- Fire extinguisher
- Sun screen Electric windshield wiper
- Windshield washer
- Cab work lights
- Pull-out Cabwalk™
- · Circulating fan
- Warning horn Cup holder
- Backup alarm
- Hand throttle
- Mirrors
- · Defroster fan

Optional

- Amber strobe light
- Third wrap indicator
- Amber rotating beacon
- Hydraulic heater
- · RCL light bar
- · Air conditioning

Controls

Hydraulic controls (joystick type) for:

- Swing
- Main winch Boom hoist

· Swing brake

- Optional auxiliary winch
- Foot controls for:
- Boom telescope
- Engine throttle

Optional

- Auxiliary winch
- Single axis controls

Cab Instrumentation

Cornerpost-mounted gauges for:

- Hydraulic oil temperature
- Audio/Visual warning system
- Check and stop engine indicator lights
- **Tachometer**
- · Oil pressure
- Voltmeter
- Fuel
- Water temperature

Rated Capacity Limiter

Microquard 434 Graphic audio-visual warning system built into dash with anti-two block and function limiters.

Operating data available includes:

- Machine configuration.
- Boom length
- · Boom angle Radius of load
- Head height Allowed load
- · Actual load
- % of allowed load

Presettable alarms include:

- Maximum and minimum boom angles
- Maximum tip height
- Maximum boom length
- Swing left/right positions
- Operator defined area alarm is standard
- Anti-two block weight designed for quick reeve of hookblock

Optional

Internal RCL light bar: Visually informs operator when crane is approaching maximum load capacity with a series of green, vellow and red lights.

· External RCL light bar: Visually informs ground crew when crane is approaching maximum load capacity kickouts and presettable alarms with a series of three lights; green, yellow and red.

Swing

- · Bi-directional hydraulic swing motor mounted to a planetary reducer for 360° continuous smooth swing at 2.1 r.p.m.
- Swing park brake 360°, electric over hydraulic (spring applied, hydraulic released) multi-disc brake mounted on the speed reducer. Operated by toggle switch in overhead control console.
- Swing brake 360°, foot operated, hydraulic applied disc brake mounted on the speed reducer.
- Swing lock Standard; two position travel lock (pin device) operated from the opera-

Counterweight

- Standard Pinned to upper structure frame. 12,000 lbs. (5 443 kg) three-piece design. Consist of one 6,000 lbs. (2 722 kg) piece bolted to upper structure and two 3,000 lbs. (1 361 kg) pieces pinned to standard counterweight.
- · Two counterweight sections can be hydraulically lowered on, and pinned to carrier deck to balance axle loadings for travel.

Optional

 360° swing lock. Meets New York City requirements.

Hydraulic System

Main Pump

- One gear pump with a total of four sections
- Combined pump capacity of 176 gpm (666
- Powered by carrier engine with pump dis-
- Rocker switch controlled, air applied pump disconnect engaged / disengaged from carrier cab.
- Maximum system operating pressure is 3,000 psi (20 685 kPa).
- O-ring face seals technology used throughout with hydraulic oil cooler standard.

Pilot Pressure / Counterweight Removal

Pressure compensated piston pump powered by carrier engine. Maximum pump operating pressure is 1,500 psi (10 342 kPa).

Steering / Fifth Outrigger Pump

- Single gear type pump, 8 gpm (30 lpm). Powered by carrier engine through front gear housing.
- Maximum pump operating pressure is 2,000 psi (13 790 kPa)

Reservoir

169 gallon (639.7 L) capacity. One diffuser for deaeration.

HTC-8660 -2-



Filtration

- One 10-micron filter located inside hydraulic reservoir
- Accessible for easy replacement

Control valves

Six separate pilot operated control valves allow simultaneous operation of all crane functions.

Load Hoist System

Standard

2M main winch with grooved lagging

- Two-speed motor and automatic brake
- Power up/down mode of operation
- Bi-directional gear-type hydraulic motor driven through planetary reduction unit for positive control under all load conditions.
- Asynchronous parallel double crossover grooved drums minimize rope harmonic motion.
- Pressure compensated winch circuit provides balanced oil flow to both winches for smooth, simultaneous operation.
- Rotation resistant wire rope
- Drum rotation indicators

Line Pulls and Speeds

Maximum available line pull 16,438 lbs. (7 454 kg) and maximum line speed of 463 f.p.m. (141 m/min) on 16" (0.41 m) root diameter grooved drum.

Optional

- 2M auxiliary winch with two-speed motor, automatic brake, and winch function lockout. Power up/down modes.
- Third wrap indicators

Carrier

■ Type

• 8' 6" (2.59 m) wide, 231" (5.87 m) wheelbase. 8 x 4 drive - standard.

Frame

• 100,000 p.s.i. (689.5 MPa) steel, double walled construction with integral 100,000 p.s.i. steel outrigger boxes.

Optional

- Carrier mounted storage boxes
- Pintle hook
- · Electric and air connections for trailers and boom dollies

Axles

Front

• Tandem, 84.38" (2.14 m) track

Rear

Tandem, 72.8" (1.85 m) track. 6.17 to 1.0 ratio with interaxle differential with lockout.

Suspension

Front axle

Leaf spring suspension

Rear axle

· Air-ride, bogie beam type, suspension.

■ Wheels

Standard

· Hub piloted aluminum disc

Optional

- · Hub piloted aluminum disc
- · Spare tire and wheel assemblies

Tires

Standard Front

445/65R22.5 (Load range "L") single tubeless radials.

Standard Rear

12R22.5 (Load range "H") rib type, dual tubeless radials

Brakes

Service

- · Full air brakes on all wheel ends with automatic slack adjustors. Dual circuit with modulated emergency brakes.
- Front 16.5 x 6 S-Cam brakes
- Rear 16.5 x 7 S-Cam brakes

Parking/Emergency

- One spring set, air released chamber per rear axle end.
- Parking brake applied with valve mounted on carrier dash.
- Emergency brakes apply automatically when air drops below 40 psi (275.8 kPa) in both systems.

Steering

· Sheppard rack and pinion design

Transmission

Standard

 Eaton RTO-14909ALL; 11 speeds forward, 3 reverse with Series 60 engine

Electrical

- Two 12-volt batteries provide 12-volt starting. 130-amp alternator
- 2,800 cold cranking amps available
- 12-volt operating system

Lights

- · Four dual beam sealed headlights
- Front, side, and rear directional signals
- Stop, tail and license plate lights
- Rear and side clearance lights
- Hazard warning lights

Outriggers

- Three position operation capability
- Four hydraulic, telescoping beam and jack outriggers.
- Vertical jack cylinders equipped with integral holding valve.
- Beams extend to 20' 6" (6.25 m) centerline-to-centerline and retract to within 8' 6" (2.59 m) overall width.
- Equipped with stowable, lightweight 24" (0.61 m) diameter aluminum floats.
- Standard fifth outrigger, 14 3/4" (0.37 m) self storing steel pad is operable from ground or operator's cab.
- Hand-held controls and sight level bubble located in operators cab and on carrier deck.

Confined Area Lifting Capacities (CALC™) System

The crane is operational in one of the three outriggers positions and operational in confined areas in two positions (intermediate and full retraction.

The three outrigger positions are:

- Full extension 20' 6" (6.25 m)
- Intermediate position 14' 1.75" (4.31 m) Full retraction 7' 9" (2.36 m)
- Capacities are available with the outrigger beams in the intermediate and full retraction positions.
- When the outrigger position levers (located on the outrigger beams) are engaged, the operator can set the crane in the intermediate or full retraction outrigger position without having to leave the cab.

I Carrier Cab

- One-man cab of laminated fibrous composite material acoustical insulation with cloth covering. Equipped with:
- Air-ride, six-way adjustable operator's seat.
- Four-way adjustable tilting and lockable steering wheel.
- Door and windows locks
- Left-hand and right-hand rear view mirrors
- Sliding right-hand and rear tinted windows
- Roll up/down left-hand tinted window
- Desiccant-type air dryer
- Steps to upper, lower cab and rear carrier
- 110-volt electric engine block heater
- Back-up warning alarm
- Tow hooks and shackles
- Aluminum fenders with ground control outriggers.
- Electric windshield wiper and washer.
- Travel lights
- Horn Ashtray
- Fire extinguisher 36,000 BTU heater
 - Defroster
- Dome light
- Mud flaps

Optional

- Air conditioning
- Amber strobe light
- Rotating beacon

Cab instrumentation

- Illuminated instrument panel speedometer.
- **Tachometer**
- Hourmeter

· Cruise control

- Fuel gauge Oil pressure gauge
- **Fuses** Odometer
- Turn signal indicator Voltmeter
- Water temperature gauge
- Front and rear air pressure gauges
- Audio/visual warning system Automotive type ignition

-3-HTC-8660



■ Carrier Speeds (Manual Transmission – Standard tires)

Ge	Gear		High				Low		De redu	- 1	Hi rev.	Lo rev.	Deep reduction	Deep reduction @ 700 rpm	Deep reduction @ 700 rpm		
		8	7	6	5	4	3	2	1	Low	LL2	LL1	Rev	Rev	Rev.	LL1	Rev
Ra	tio	0.73	1.00	1.38	1.95	2.77	3.79	5.23	7.41	16.30	11.85	26.08	3.43	13.03	20.85	26.08	20.85
Speed	mph	58.20	42.49	30.79	21.79	15.34	11.21	8.12	5.73	2.61	3.59	1.63	12.13	3.19	1.89	0.55	0.66
Specu	km/hr.	93.65	68.36	49.54	35.06	24.68	18.04	13.07	9.23	4.19	5.77	2.62	19.52	5.13	3.20	0.88	1.06

■ Engine

Detroit Diesel, Series 60 12.7 L
6/4
5.12" (0.13 m)
6.30" (0.16 m)
778 cu. in. (12 751 cm ³)
365 @ 1,800 rpm; 350 @ 2,100 rpm
1,350 ft. lbs. (1 831 J) @ 1,200 rpm
12-volt neg. ground / 12 volt starting
100 gallons <i>(378.5 L)</i>
12 volt, 130 amps
32 qts. (30 L)

Engine brake – standard

Axle Loads

Base machine with standard 35.5' – 110' (10.82 – 33.53 m) four–section boom,	G V	W. ₪	Upper Facing Front				
2M main winch with 2–speed hoisting and power up/down, 600' (182.88 m),	G.V.	VV. 🗓	Front	Axle	Rear	Axle	
3/4" (19 mm) wire rope, 8 x 4, 8.5' (2.59 m) carrier with Detroit Diesel Series 60 12.7 L engine, 100 gal. (378.5 L) fuel, aluminum fenders and 12,000 lb. (5 443	lbs.	kg.	lbs.	kg.	lbs.	kg.	
kg.) counterweight.	82,052	37 218	28,742	13 037	53,310	24 181	
Carrier aluminum storage box	57	26	16	7	41	19	
Engine block heater – propane	83	38	105	48	-22	-10	
Ether injection	6	3	6	3	0	0	
Air conditioning – Carrier cab	124	56	158	71	-34	-15	
Pintle hook	25	11	-10	-5	35	16	
Electrical and air electrical hook-ups for dolly or trailer	7	3	0	0	7	3	
Driver in carrier cab	200	91	252	114	- 52	-23	
Cab heater assembly (hydraulic)	129	59	2	1	127	57	
Cab air conditioning	264	120	2	1	262	119	
Remove one slab of counterweight on upper	-3,000	-1 361	1,572	713	-4,572	-2 074	
Remove two slabs of counterweight on upper	-6,000	-2 722	3,143	1 425	-9,143	-4 147	
Rear winch roller	93	42	-44	-20	137	62	
Winch with two speeds and 600' (182.88 m) of wire rope	712	323	-197	<i>–89</i>	909	412	
Front winch roller	93	42	-31	-14	124	56	
Remove 600' (182.88 m) of rope from rear winch	-660	-299	279	127	-939	-426	
Remove 600' (182.88 m) of rope from front winch	-660	-299	185	84	-845	-383	
Boom float kit	56	25	14	6	42	19	
Add fly brackets to boom base section fly options	160	73	141	64	19	9	
Add 34' (10.36 m) offsettable fly w/ATB weight (stowed)	1,478	670	1,456	660	22	10	
Add 34' – 56' (10.36 – 17.07 m) offsettable fly w/ATB weight (stowed)	2,134	968	1,857	842	277	126	
Add floodlight to front of boom base section	10	5	16	7	-6	-2	
Add 40-ton (36.43 mt) hookblock stowed behind bumper (4-sheaves)	720	327	1,201	545	-481	-218	
Add 60-ton (54.43 mt) hookblock stowed behind bumper (5-sheaves)	1,109	503	1,850	839	-741	-336	
Hookball to front bumper	360	163	600	272	-240	-109	
Auxiliary arm w/ATB switch to boomhead	95	43	178	81	-83	-38	
			Front	Axle	Rear A	xle	
Transfer one slab of counterweight to carrier deck		3,948	1 791	-3,948	-1 791		
Transfer two slabs of counterweight to carrier deck	7,896	3 582	-7,896	<i>–3 582</i>			

 $oxed{\blacksquare}$ Adjust gross vehicle weight & axle loading according to component weight. Note: All weights are \pm 3%

Axle	Max. Load @ 65 mph. (105 km/h)				
Front	46,400 lbs. (21 047 kg) – Aluminum disc wheels with 445/65R22.5 tires				
Rear	50,350 lbs. (22 838 kg) – Aluminum disc wheels with 12R22.5 tires				

Link–Belt Construction Equipment Company Lexington, Kentucky www.linkbelt.com

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HTC-8660

[•] Ether injection starting package - optional



Lifting Capacities

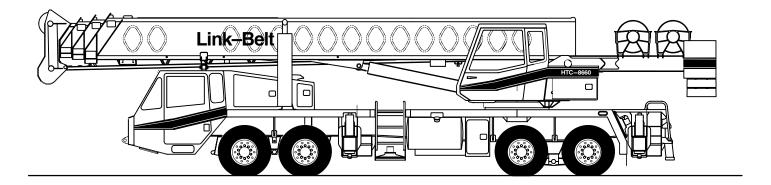
Telescopic Hydraulic Truck Crane

HTC-8660 60-ton (54.43 metric ton)

Boom and fly capacities for this machine are listed by the following sections:

Fully Extended Outriggers

- Working Range Diagram (12,000 lbs. Counterweight)
- 35.5 to 60.3 ft. (10.82 18.38 m) main boom capacities, **A-max** mode
- 35.5 to 110 ft. (10.82 33.53 m) main boom capacities, Basic Mode "B"
- 34 (10.36 m) ft. offset fly capacities, Basic Mode "B"
- 34 to 56 ft. (10.36 33.53 m) two-piece offset fly capacities, Basic mode "B"



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.





WARNING

READ AND UNDERSTAND THE OPERATOR'S AND SAFETY MANUALS AND THE FOLLOWING INSTRUCTIONS AND RATED LIFTING CAPACITIES BEFORE OPERATING THE CRANE. OPERATION WHICH DOES NOT FOLLOW THESE INSTRUCTIONS MAY RESULT IN AN ACCIDENT.

OPERATING INSTRUCTIONS

GENERAL:

- Rated lifting capacities in pounds as shown on lift charts pertain to this crane as originally manufactured and normally equipped.
 Modifications to the crane or use of optional equipment other than that specified can result in a reduction of capacity.
- 2. Construction equipment can be dangerous if improperly operated or maintained. Operation and maintenance of this crane must be in compliance with the information in the Operator's, Parts, and Safety Manuals supplied with this crane. If these manuals are missing, order replacements through the distributor.
- 3. The operator and other personnel associated with this crane shall read and fully understand the latest applicable American National Standards ASME B30.5 safety standards for cranes.
- 4. The rated lifting capacities are based on crane standing level on firm supporting surface.

SET UP:

- The crane shall be leveled on a firm supporting surface. Depending on the nature of the supporting surface, it may be necessary to have structural supports under the outrigger pontoons or tires to spread the load to a larger bearing surface.
- 2. When making lifts on outriggers, all tires must be free of supporting surface. All outrigger beams must be extended to the same length; fully retracted, intermediate extended, or fully extended. The front bumper outrigger must be properly extended.
- When operating on fully retracted outriggers, do not exceed 70° maximum boom angle with 12,000 lb. counterweight. Loss of backward stability will occur causing a backward tipping condition.
- 4. When making lifts on tires, they must be inflated to the recommended pressure. (See Operation note 20 and Tire Inflation.)
- 5 Before swinging boom to over side position on tires, or on fully retracted outriggers where capacities are not published, boom sections must be fully retracted and 45° boom angle maintained.
- For required parts of line, see Wire Rope Capacity and Winch Performance.
- 7. When installing or removing counterweights, crane must be on fully extended outriggers and boom fully retracted. Do not exceed a 30 ft. radius when moving counterweights.
- 8. Before setting up on intermediate outriggers, retracted outriggers, or tires, refer to Working Range Diagrams and rated 9 lifting capacities to determine allowable crane configurations.

OPERATION:

- Do not tip the crane to determine allowable loads. For concrete bucket operation, weight of bucket and load shall not exceed 80% of rated lifting capacities. For clamshell bucket operation, weight of bucket contents is restricted to a maximum weight of 7,000 pounds or 80% of rated lifting capacity, whichever is less. For magnet operation, weight of magnet and load is restricted to a maximum weight of 7,000 pounds or 80% of rated lifting capacity, whichever is less. For clamshell and magnet operation, maximum boom length is restricted to 55 ft. and the boom angle is restricted to a minimum of 35 degrees. Lifts with either fly erected is prohibited for both clam and magnet operation.
- 2. Rated lifting capacities shown on fully extended outriggers do not exceed 85% of the tipping loads. Rated lifting capacities shown on intermediate extended or fully retracted outriggers are determined by the formula, rated load = (tipping load 0.1 X load factor)/1.25. Rated lifting capacities shown on tires do not exceed 75% of the tipping loads. Tipping loads are determined by SAE crane stability test code J–765.
- 3. Rated lifting capacities in the shaded areas above the bold lines, are based on structural strength or hydraulic limitations and have been tested to meet minimum requirements of SAE J-1063 cantilevered boom crane structures— method of test. The rated lifting capacities below the bold lines are based on stability ratings. Some capacities are limited by a maximum obtainable 78° boom angle.
- 4. Rated lifting capacities include the weight of the hook block, hook ball, slings, bucket, magnet, and auxiliary lifting devices. Their weights must be subtracted from the listed rated capacity to obtain the net load which can be lifted. Rated lifting capacities include the deduct for either fly stowed on the base of the boom. For deducts of either fly erected, but not used, see Capacity Deductions For Auxiliary Load Handling Equipment.
- Rated lifting capacities are based on freely suspended loads.
 No attempt shall be made to move a load horizontally on the ground in any direction.
- 6. Rated lifting capacities are for lift crane service only.
- 7. Do not operate at radii or boom lengths (minimum or maximum) where capacities are not listed. At these positions, the crane can tip or cause boom failure.
- 3. The maximum loads which can be telescoped are not definable because of variation in loadings and crane maintenance, but it is permissible to attempt retraction and extension within the limits of the applicable load rating chart.
- 9. For main boom capacities when either boom length or radius or both are between values listed, proceed as follows:
 - For boom lengths not listed, use rating for next longer boom length or next shorter boom length, whichever is smaller.
 - b. For load radii not listed, use rating for next larger radius.



- 10. The user shall operate at reduced ratings to allow for adverse 18. For fly capacities with main boom length less than 85 ft., the job conditions, such as: soft or uneven ground, out of level conditions, wind, side loads, pendulum action, jerking or sudden stopping of loads, hazardous conditions, experience of personnel, traveling with loads, electrical wires, etc. Side load 19. The 35.5 ft. boom length rated lifting capacities are based on on boom or fly is dangerous and shall be avoided.
- 11 . Rated lifting capacities do not account for wind on suspended load or boom. Rated capacities and boom length shall be 20. appropriately reduced as wind velocity approaches or exceeds 20 mph.
- 12. When making lifts with auxiliary head machinery, the effective length of the boom increases by 2 ft.
- 13 . Power sections of boom must be extended in accordance with boom mode "A" or "B". In boom mode "B" all power sections must be extended or retracted equally.
- 14. The least stable rated working area depends on the configuration of the crane set up.
- 15. Rated lifting capacities are based on correct reeving. Deduction must be made for excessive reeving. Any reeving over minimum required (see Wire Rope Capacity) is considered excessive and must be accounted for when making lifts. Use working range diagram to estimate the extra feet of rope then deduct 1 lb. for each extra foot of wire rope before attempting to lift a load.
- 16. The loaded boom angle combined with the boom length give only an approximation of the operating radius. The boom angle, before loading, should be greater to account for deflection. For main boom capacities, the loaded boom angle is for reference only. For fly capacities, the loaded radius is for reference only.
- 17. For fly capacities with main boom length less than 110 ft. and greater than 85 ft., the rated capacities are determined by the boom angle using the 110 ft. boom and fly chart. For angles not shown use the next lower boom angle to determine the rated capacity.

- rated capacities are determined by the boom angle only using the 85 ft. boom and fly chart. For angles not shown, use the next lower boom angle to determine the rated capacity.
- boom fully retracted. If the boom is not fully retracted, do not exceed capacities shown for the 45 ft. boom length.
- Rated lifting capacities on tires depend on tire capacity, condition of tires, and tire air pressure. On tire capacities require lifting from main boom head only on a smooth and level surface. Pick and carry operations are restricted to maximum speed of 1 mph. The boom must be centered over the rear of the crane with two position travel swing lock engaged and the load must be restrained from swinging. For correct tire pressure, see "Tire Inflation".

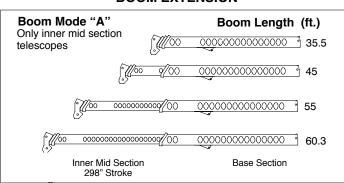
DEFINITIONS:

- 3 -

- Load Radius: Horizontal distance from a projection of the axis of rotation to the supporting surface before loading to the center of the vertical hoist line or tackle with load applied.
- Loaded Boom Angle: The angle between the boom base section and horizontal with freely suspended load at the rated radius.
- Working Area: Area measured in a circular arc about the center line of rotation as shown on the Working Area Diagram.
- Freely Suspended Load: Load hanging free with no direct external force applied except by the hoist line.
- Side Load: Horizontal side force applied to the lifted load either on the ground or in the air.
- No Load Stability Limit: The radius or boom angle beyond which it is not permitted to position the boom because the crane can overturn without any load on the hook.
- Load Factor: Load applied at the boom tip which gives the same moment effect as the boom mass.



BOOM EXTENSION



Boom mode B	Boom Length	(ft.)
Inner mid, outer mid and tip sections telescope simultaneously.	000000000000000000000000000000000000000	35.5
[<u>@//9/0/00</u>	0000000000000000000	45
<u> </u>	00000000000000000000	55
<u> </u>	000000000000000000000000000000000000000	65
\(\frac{\frac{1}{20000} 000000000000000000000000000000000000	00000000000000000000	75
[<u>/www</u>	000000000000000000	85
<u> </u>	000000000000000000000000000000000000000	95
	0000000000000000000	105
(%) (%) (%) (%) (%) (%) (%) (%) (%) (%)	000000000000000000	110
Outer Mid Inner Mid Tip Section Section Section 298" Stroke 298" Stroke 298" Stroke	Base Section	

TIRE INFLATION

Tire Size	Operation	Tire Pressure (psi)
12 R 22.5	1 MPH Stationary	120 120
295/80 R 22.5	1 MPH Stationary	110 110

PONTOON LOADINGS

Maximum Pontoon Load:	Maximum Pontoon Ground Bearing Pressure:
97,400 lbs.	215 psi

CAPACITY DEDUCTIONS FOR AUXILIARY LOAD HANDLING EQUIPMENT

Load Handling Equipment:		(lbs.)			
Auxiliary Head Attached		100			
40-ton quick reeve 4 sheave hook block (see hook block for actual weight)					
60-ton quick reeve 4 sheave hook block (see hook block for actual weig	ht)	1,100			
70-ton quick reeve 5 sheave hook block (see hook block for actual weight)					
8.5-ton hook ball (see hook ball for actual weight)					
Lifting From Main Boom With:					
34 ft. or 56 ft. fly stowed on base (see operation note 4)					
34 ft. offset fly erected but not used					
56 ft. offset fly erected but not used					
Lifting From 28.5 ft. Offset Fly With:					
22 ft. fly tip erected but not used PROHIBIT					
22 ft. fly tip stowed on 28.5 ft. offset fly PROHIBIT					
Note: Capacity deductions are for Link–Belt supplied equipment only.					

WINCH PERFORMANCE

Winch Line Pulls			Drum Rope Capacity (ft.)			
Wire	Two Speed	l Winch	Druin hope Capacity (it.)			
Rope	Low Speed	High Speed		Ŧ		
Layer	Available Lbs.*	Available lbs.	Layer	Total		
1	16,407	7,793	110	110		
2	15,085	7,165	119	229		
3	13,959	6,631	129	358		
4	12,990	6,170	138	496		
5	12,147	5,770	148	644		
6	N/A	N/A	158	802		
*Maximu	*Maximum lifting capacity: Type RB Rope = 12,920 Type ZB Rope = 15,600					

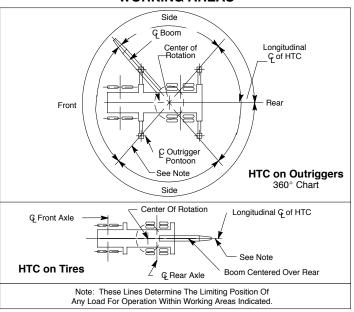
WIRE ROPE CAPACITY

Maximum Lifting Capacities Based On Wire Rope Strength								
D. 1 (1)	3/4"	3/4"	Notes					
Parts of Line	Type RB	Type ZB	Notes					
1	12,920	15,600						
2	25,840	31,200	Capacities shown are in pounds					
3	38,760	46,800	and working loads must not ex-					
4	51,680	62,400	ceed the ratings on the capacity charts in the Crane Rating Manual.					
5	64,600	79,000						
6	77,520	93,600	Study Operator's Manual for wire rope inspection procedures and					
7	90,440	109,200	single part of line applications.					
8	103,360	124,800						
9	116,280	140,400						
10	129,200	156,000						
LBCE	LBCE DESCRIPTION							
TYPE RB	18 X 19 Rotation Resistant – Compact Strand, High Strength Preformed, Right Regular Lay							
TYPE ZB	36 X 7 Rotation Resistant – Extra Improved Plow Steel – Right Regular Lay							

HYDRAULIC CIRCUIT PRESSURE SETTINGS

Function	Pressure (PSI)
Front And Rear Winch	2,750
Outriggers	3,000
Boom Hoist	2,900
Telescope	3,000
Swing	1,500
Steering	2,000
Bumper Outrigger	650
Pilot Control	500
Counterweight Removal	1,500

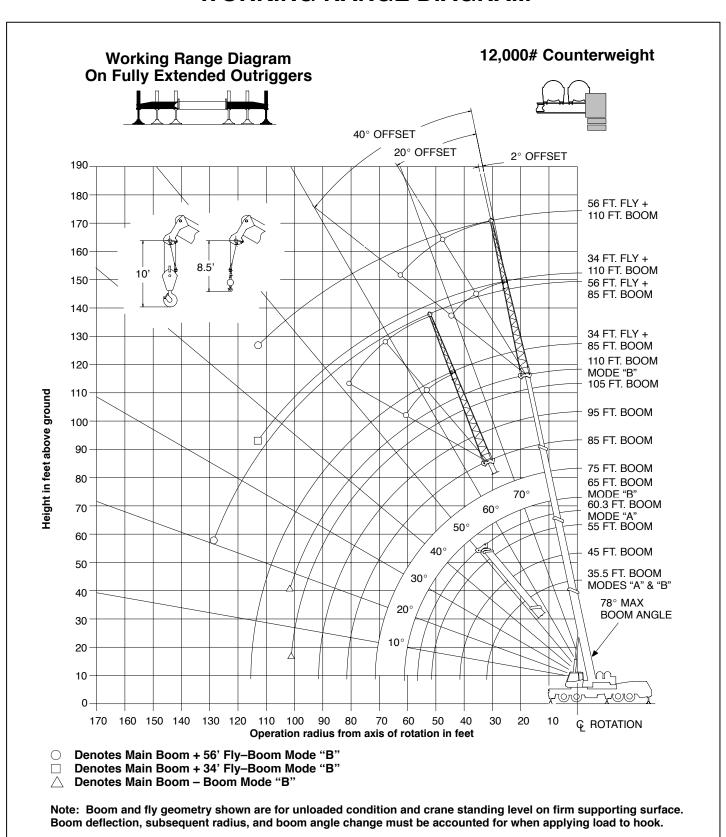
WORKING AREAS



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WORKING RANGE DIAGRAM



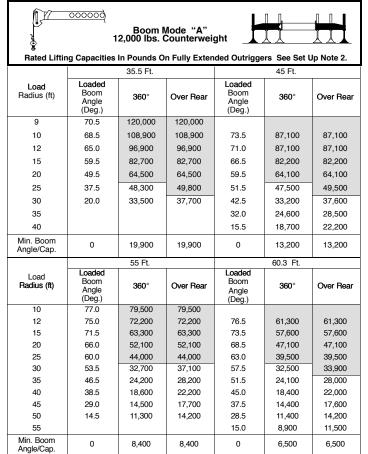


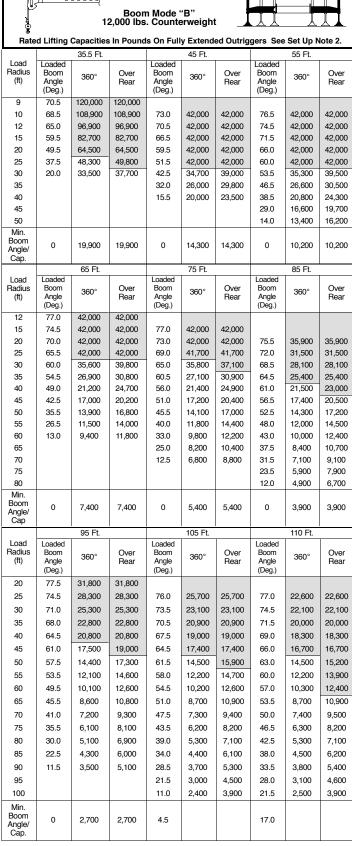
Do Not Lower The Boom Below The Minimum Boom Angle For No Load Stability As Shown In The Lift Charts For The Boom Lengths Given. Loss Of Stability Will Occur Causing A Tipping Condition.

-5-



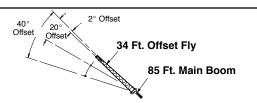
Note: Refer To Page 4 For "Capacity Deductions" Caused By Auxiliary Load Handling Equipment.

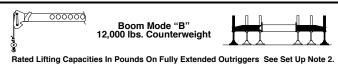




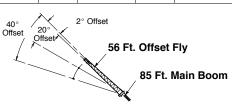
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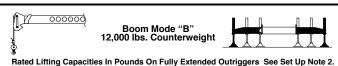






Load Radius (ft)	2° Offset		20° Offset		40° Offset	
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°
25	77.5	18,600				
30	75.0	17,000				
35	73.0	15,600	77.5	11,000		
40	70.5	14,500	75.0	10,500		
45	68.0	13,600	72.5	10,100	77.0	8,200
50	65.0	12,700	70.0	9,600	74.5	7,900
55	62.5	11,900	67.5	9,300	71.5	7,600
60	60.0	11,100	64.5	8,900	69.0	7,400
65	57.0	9,900	62.0	8,600	66.0	7,200
70	54.0	8,500	59.0	8,200	62.5	7,000
75	50.5	7,400	56.0	7,900	59.5	6,800
80	47.0	6,400	52.5	7,000	56.0	6,700
85	43.5	5,600	48.5	6,100	52.0	6,500
90	40.0	4,800	45.0	5,300	48.0	5,600
95	35.5	4,200	40.5	4,600	43.0	4,800
100	31.0	3,600	35.5	3,900		
105	26.0	3,100	30.0	3,300		
110	19.0	2,600	23.0	2,800		
115	7.5	2,200				
Min.Bm. Ang./Cap.	0	1,700	0	1,800	0	1,900

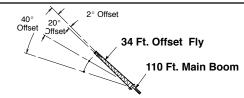




Hated Enting Supartities in 1 Surius Sin 1 dily Extended Suringgers See Set Sp Note 2.							
	2° Offset		20° Offset		40° Offset		
Load Radius (ft)	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
35	76.5	11,100					
40	74.5	10,500					
45	72.5	9,600					
50	70.0	8,800	77.0	6,200			
55	68.0	8,100	75.0	5,900			
60	66.0	7,600	73.0	5,600			
65	63.5	7,000	70.5	5,300	77.0	4,200	
70	61.5	6,600	68.5	5,000	74.5	4,000	
75	59.0	6,200	66.0	4,800	72.0	3,900	
80	56.5	5,800	63.5	4,600	69.5	3,800	
85	54.0	5,500	61.0	4,400	66.5	3,700	
90	51.5	5,200	58.5	4,200	64.0	3,600	
95	48.5	4,800	55.5	4,000	61.0	3,500	
100	45.5	4,200	52.5	3,900	57.5	3,500	
105	42.5	3,700	49.5	3,800	54.5	3,400	
110	39.0	3,200	46.0	3,700	50.5	3,400	
115	35.5	2,800	42.5	3,200	46.5	3,400	
120	31.5	2,400	38.0	2,700	41.0	2,900	
125	27.5	2,000	33.5	2,300			
130	22.0	1,700	27.5	1,900			

WARNING

Do Not Lower 56 Ft. Offset Fly In Working Position Below 20.5° Main Boom Angle Unless Main Boom Length Is 80 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.



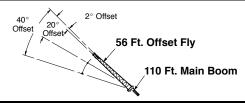
Boom Mode "B" 12,000 lbs. Counterweight Rated Lifting Capacities In Pounds On Fully Extended Outriggers See Set Up Note 2.								
	2° O	ffset	20° Offset		40° Offset			
Load Radius (ft)	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°		
35	76.5	10,500						
40	74.5	10,500						
45	72.5	10,500	77.0	9,500				
50	70.5	9,800	75.0	8,700				
55	68.5	8,900	72.5	8,000	76.5	7,400		
60	66.5	8,200	70.5	7,400	74.0	6,900		
65	64.0	7,500	68.5	6,800	72.0	6,400		
70	62.0	6,900	66.0	6,400	69.5	6,000		
75	59.5	6,400	63.5	6,000	67.0	5,600		
80	57.0	6,000	61.5	5,600	64.5	5,300		
85	54.5	5,300	59.0	5,200	62.0	5,000		
90	52.0	4,500	56.5	4,900	59.5	4,700		
95	49.0	3,900	53.5	4,400	56.5	4,500		
100	46.5	3,300	50.5	3,800	53.5	4,100		
105	43.5	2,800	47.5	3,200	50.0	3,500		
110	40.0	2,300	44.0	2,700	46.5	2,900		
	Rated L Load Radius (ft) 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105	Rated Lifting Capaci Load Radius (ft)	12,000 lbs. 12,000 lbs.	12,000 lbs. Counterweil 12,000 lbs. Coun	12,000 lbs. Counterweight 12,000 lbs. 12,000 l	12,000 lbs. Counterweight 2,000 lbs. Counterweight 2 0 0 0 0 0 0 0 0 0		

37.0 WARNING

Do Not Lower 34 Ft. Offset Fly In Working Position Below 36° Main Boom Angle Unless Main Boom Length Is 88 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.

40.5

1,900



2,200

1,800

-7-

37.0

115

120

Boom Mode "B" 12,000 lbs. Counterweight

42.5

2,400

Rated Lifting Capacities in Pounds On Fully Extended Outriggers See Set Up Note 2.						
Load Radius (ft)	2° Offset		20° Offset		40° Offset	
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°
40	77.0	6,900				
45	75.5	6,900				
50	74.0	6,900				
55	72.5	6,900				
60	70.5	6,400	77.0	5,600		
65	69.0	5,900	75.0	5,200		
70	67.0	5,400	73.0	4,800		
75	65.0	5,000	71.5	4,500	76.5	4,000
80	63.0	4,600	69.5	4,200	74.5	3,800
85	61.0	4,300	67.5	3,900	72.5	3,600
90	59.0	4,000	65.5	3,600	70.5	3,300
95	57.0	3,700	63.0	3,400	68.0	3,100
100	55.0	3,500	61.0	3,200	66.0	3,000
105	53.0	3,200	59.0	3,000	63.5	2,800
110	50.5	2,800	56.5	2,800	61.0	2,600
115	48.0	2,300	54.0	2,700	58.5	2,500
120			51.5	2,500	55.5	2,400
125			48.5	2,100	52.5	2,300
130					49.5	2,000

WARNING

Do Not Lower 56 Ft. Offset Fly In Working Position Below 45.5° Main Boom Angle Unless Main Boom Length Is 80 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.



Link—Belt Construction Equipment Company

Lexington, Kentucky

www.linkbelt.com

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