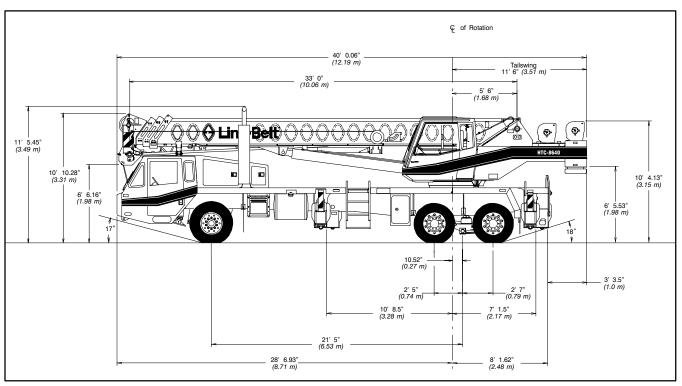
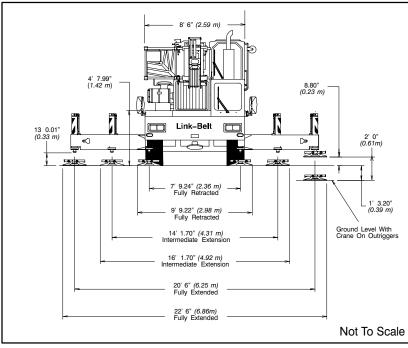
Specifications

Telescopic Boom Truck Crane

HTC-8640 Heavy Lift 40-ton (36.29 metric tons)





General Dimension	feet	meters
Turning radius – wall to wall	44' 2"	13.46
Turning radius – curb to curb	39' 6"	14.44
Ground clearance	13"	.33
Tailswing	11' 6"	3.51

Litho in U.S.A. 3/03 #5380 (Supersedes #5367)



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

- 33' 105' (10.06 32.00 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 105' (32.00 m).
- The exclusive "A-max" mode (or mode 'A') extends only the inner mid section to 57' (17.37 m) offering increased capacities for in-close, maximum capacity picks.
- · Mechanical Boom Angle Indicator

- Four 16.5" (0.42 m) root diameter nylon sheaves to handle up to eight 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

- One Link–Belt designed hydraulic cylinder with holding valve and bushing 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

- 25-ton (22.7 mt) quick reeve hook block.
- 40-ton (36.3 mt) quick reeve hook block.
- 8.5-ton (7.7 mt) hook ball.
- Boom floodlight.

Fly

Optional

- 28.5' (8.69 m) one-piece lattice fly, stowable, offsettable to 2°, 20° and 40°.
- 28.5' 51' (8.69 15.54 m) two-piece (bifold) 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 for maximum operator comfort.
- Hand-held outrigger controls and sight level bubble located in cab.
- Diesel cab heater
- Pull-out Cabwalk™
- Audible swing alarm
- Fire extinguisher
- 12-volt accessory outlet
- Electric windshield wiper Windshield washer
- Top hatch window wiper
- Circulating fan Warning horn
- Cup holder
- · Sun screen · Hand throttle
- Mirrors
- · Dome light

Optional

- Amber strobe light
- Amber rotating beacon
- Hydraulic heater
- Air conditioning

Controls

Hydraulic controls (joy-stick type) for:

- Swing
- Main winch Optional auxiliary winch • Boom hoist Foot controls for:
- Boom telescope
- Swing brake
- Engine throttle

Optional

- Auxiliary winch
- Single axis controls

Cab Instrumentation

Cornerpost-mounted gauges for:

- Hydraulic oil temperature
- Audio/Visual warning system
- **Tachometer**
- Oil pressure
- Voltmeter
- Water temperature

Fuel

Rated Capacity Limiter

Microguard 434 Graphic audio-visual warning system built into dash with antitwo block and function limiters

Operating data available includes:

- Machine configuration.
- Boom length
- Boom angle
- Head height
- · Radius of load
- 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 hook block.

Optional

- Internal RCL light bar: Visually informs operator when crane is approaching maximum load capacity with a series of three lights; green, yellow and red.
- 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 2.8 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 operated from the operator's cab.
- Counterweight
- Standard Bolted to upper structure frame. 9,700 lbs. (4 400 kg) consisting of 4,700 lbs. (2 132 kg) base counterweight and 5,000 lbs. (2 268 kg) of removable counterweights.

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 131 gpm (488 Ipm).
- Powered by carrier engine through power take-off (PTO).
- Spline type pump disconnect, mechanically activated pump disconnect engaged / disengaged from carrier cab.
- Maximum system operating pressure is 3,350 psi (23 098 kPa).
- O-ring face seals technology used throughout with hydraulic oil cooler standard.

Steering / Fifth Outrigger Pump

- Single gear type pump, 6 gpm (23 lpm). Powered by carrier engine through front gear housing.
- Max. pump operating pressure is 2,000 psi (13 790 kPa). Reservoir – 131 gallon (507.2 L) capacity. One diffuser for deaeration.

Filtration

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



Control valves

Five 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 piston-type hydraulic motor Line Pulls and Speeds 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.

Maximum available line pull 13,010 lbs. (5 901 kg) and maximum line speed of 480 f.p.m. (146 m/min) on 10.63" (0.27 m) root diameter grooved drum.

Optional

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

Carrier

Type

• 8' 6" (2.59 m) wide, 257" (6.53 m) wheelbase. 6 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.

Axles

Front

• Single, 83.22" (2.11 m) track.

Rear

Tandem, 73.41" (1.86 m) track. 6.17 to 1.0 ratio with interaxle differential with lockout (6.64:1 ratio with automatic transmission).

Suspension

Front axle

· Leaf spring suspension.

Rear axle

Air-ride, bogie-beam type, suspension.

Wheels

Standard

· Hub piloted aluminum disc.

Tires

Standard Front

• 425/65R22.5 (Load range "L") single tubeless radials.

Standard Rear

• 12R22.5 (Load range "H") 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.

Optional

· Remote drive and steer.

Transmission

Standard

Eaton RTX-11609B; 9 speeds forward, 2 reverse.

Optional

Automatic Allison MD 3066, 65:1 high, 3.49:1 low.

Auxiliary

Eaton 2A-92, two speed- High: 1.0:1 Low: 2.3:1 (with automatic transmission only).

Electrical

- Two 12-volt batteries provide 12-volt starting. 160-amp alternator.
- 1,400 cold cranking amps available.
- 12-volt operating system,

- 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, 16" (0.41 m) self storing steel pad is operable from ground or operator's cab.
- Hand-held controls and sight level bubble located 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' 1.70" (4.31 m).
- Full retraction 7' 9.24" (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.

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
- 120-volt electric engine block heate
- 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

· Cruise control

Dome light Mud flaps

Optional

- · Rotating Beacon
- Amber Strobe Light
- Air conditioning

Cab instrumentation

- Illuminated instrument panel speedometer.
- Tachometer
- Hourmeter
- 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



■ Carrier Speeds (Manual Transmission – Standard tires)

Gear			Hi	gh			Low			Hi Rev.	Lo Rev.	Low Rev. @700 rpm	Low @700 rpm	
		8	7	6	5	4	3	2	1	Low	Rev.	Rev.	Low Rev.	Low
Ra	tio	0.73	1.00	1.38	1.95	2.79	3.83	5.28	7.47	12.57	3.43	13.14	13.14	12.57
Cnaad	mph	57.92	42.28	30.64	21.68	15.15	11.04	8.01	5.66	3.36	12.33	3.22	1.07	1.12
Speed	km/hr.	93.42	68.19	49.42	35.00	24.44	17.81	12.92	9.13	5.42	19.89	5.42	1.72	1.64

■ Engine

Engine – standard	Cummins ISL 330 with Jake Brake	
Cylinders – cycle	6 / 4	
Bore	4.49" (114 mm)	
Stroke	5.69" (145 mm)	
Displacement	540 cu. in. (8 849 cm ³)	
Maximum brake hp.	345 @ 1,900 rpm; 330 @ 2,100 rpm	
Peak torque	1,150 ft. lbs. (1 559.2 J) @ 1,300 - 1,400 rpm	
Electric system	12-volt neg. ground / 12 volt starting	
Fuel capacity	75 gallons <i>(284 L)</i>	
Alternator	12 volt, 160 amps	
Crankcase capacity	29 qts. (28 L)	

■ Axle Loads

Base machine with standard 33' – 105' (10.06 – 32.00 m) four–section boom,		\M/ _	Upper Facing Front				
2M main winch with 2–speed hoisting and power up/down, 450' (137 m), 5/8"	G.V.W. 🗉		Fron	t Axle	Rea	r Axle	
(19 mm) wire rope, 8 x 4, 8.5' (2.59 m) carrier with Cummins ISL 330 Engine,	lbs.	kg.	lbs.	kg.	lbs.	kg.	
75 gal. (284 L) fuel, aluminum fenders and 9,700 lb. (4 400 kg.) counterweight.	62,185	28 207	16,677	7 565	45,508	20 642	
Left side carrier aluminum storage box	57	26	14	6	43	20	
Right side carrier aluminum storage box	57	26	14	6	43	20	
Six-speed automatic transmission and two-speed auxiliary transmission with engine brake	576	261	223	101	353	160	
Air conditioning – Carrier cab	124	56	135	61	-11	-5	
Pintle hook w/air and electrical hook-ups	32	15	-9	-4	41	19	
Driver in carrier cab	200	91	236	107	-36	-16	
Cab heater assembly (hydraulic)	110	50	-8	-4	118	5	
Air conditioning – Operator cab	315	143	-35	-16	350	159	
Rear winch roller	77	35	-31	-14	108	49	
Front winches with two speeds and 450' (137.2 m) of wire rope	312	141	-93	-43	405	184	
Front winch roller	77	35	-22	-10	99	45	
Remove rear winch rope (450')	-365	-166	161	73	-526	-239	
Remove front winch rope (450')	-365	-166	120	54	-485	-220	
360 degree Mechanical House Lock	60	27	-2	-1	62	28	
Fly brackets to boom base section for fly options	116	53	62	28	54	24	
28.5' (8.69 m) offsettable fly w/ATB weight (stowed)	1,184	537	839	381	345	156	
28.5' – 51' (8.69 – 15.54 m) offsettable fly w/ATB weight (stowed)	1,757	797	1,141	518	616	279	
Floodlight to front of boom base section	10	5	13	6	-3	-1	
25-ton (22.7 mt) hook block stowed behind bumper (3-sheaves)	670	304	784	356	-114	-52	
40-ton (36.3 mt) hook block stowed behind bumper (4-sheaves)	780	354	913	414	-133	-60	
Hookball to front bumper	360	163	421	191	-61	-28	
Auxiliary arm w/ATB switch to boomhead	110	50	169	69	-59	-20	

Axle	Max. Load @ 65 mph. (105 km/h)		
Front	22,700 lbs. (10 297 kg) – aluminum disc wheels		
Rear	47,250 lbs. (21 432 kg) – aluminum disc wheels		

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Lifting Capacities

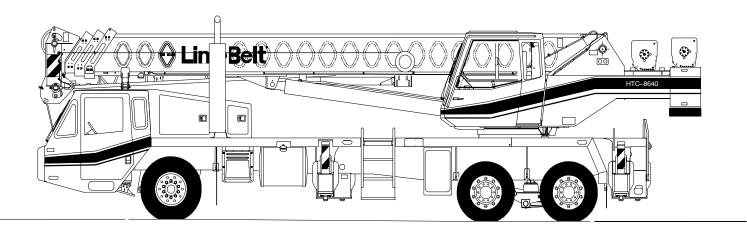
Telescopic Hydraulic Truck Crane

HTC-8640 Heavy Lift 40-ton (36.3 metric ton)

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

Fully Extended Outriggers

- Working Range Diagram (9,700 lbs. Counterweight)
- 33 to 57 ft. main boom capacities, A-max mode
- 33 to 105 ft. main boom capacities, Basic Mode "B"
- 28.5 ft. offset fly capacities, Basic Mode "B"
- 28.5 to 51 ft. 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.



Table Of Contents

Page	Contents
3–4	Operating Instructions
5	Tire Inflation
5	Pontoon Loadings
5	Boom Mode "A" and "B"
5	Winch Performance
5	Wire Rope Capacity
5	Hydraulic Circuit Pressure Settings
5	Working Areas
5	Capacity Deductions for Auxiliary Load Handling Equipment

Fully Extended Outriggers

Working Range Diagram, 9,700 lbs. Counterweight

Lifting Capacities, 9,700 lbs. Counterweight





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.
- 3. When making lifts on tires, they must be inflated to the recommended pressure. (See Operation note 20 and Tire Inflation.)
- 4 . Before swinging boom to over side position on tires, boom sections must be fully retracted not exceeding a 72° boom angle.
- 5. For required parts of line, see Wire Rope Capacity and Winch Performance.
- 6 . Before setting up on intermediate outriggers, retracted outriggers, or tires, refer to Working Range Diagrams and rated lifting capacities to determine allowable crane configurations.

OPERATION:

- 1. Rated lifting capacities at rated radius shall not be exceeded. 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 and bucket contents is restricted to a maximum weight of 6,000 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 6,000 pounds or 80% of rated lifting capacity, whichever is less. For clamshell and magnet operation, maximum boom length is restricted to 50 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 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 in non—shaded areas 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 ball/block, 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.
- 8. 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.
 - For load radii not listed, use rating for next larger radius
- 10 . The user shall operate at reduced ratings to allow for adverse 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 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 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 load radius is for reference only.

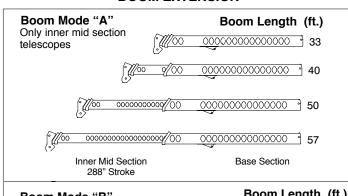
- 17 . For fly capacities with main boom length less than 105 ft. and greater than 80 ft., the rated capacities are determined by the boom angle using the 105 ft. boom and fly chart. For angles not shown use the next lower boom angle to determine the rated capacity.
- 18 . For fly capacities with main boom length less than 80 ft., the rated capacities are determined by the boom angle using the 80 ft. boom and fly chart. For angles not shown use the next lower boom angle to determine the rated capacity.
- 19 . The 33 ft. boom length structural lifting capacities are based on boom fully retracted. If the boom is not fully retracted, do not exceed capacities shown for the 40 ft. boom length.
- 20 . 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. 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. Rated lifting capacities on tires are limited to creep and 2.5 mph speed. For correct tire pressure, see Tire Inflation.

DEFINITIONS:

- 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.
- 2. Loaded Boom Angle: 🔏 The angle between the boom base section and horizontal with freely suspended load at the rated radius.
- 3. Working Area: Area measured in a circular arc about the center line of rotation as shown on the Working Area Diagram.
- 4. Freely Suspended Load: Load hanging free with no direct external force applied except by the hoist line.
- 5. Side Load: Horizontal side force applied to the lifted load either on the ground or in the air.
- 6. 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.
- 7. Load Factor: Load applied at the boom tip which gives the same moment effect as the boom mass.
- 8. Creep: Crane movement not exceeding 200 ft. in a 30 minute period and 1 mph maximum speed.



BOOM EXTENSION



Boom Mode "B"	Boom Length	(ft.)
Inner mid, outer mid and tip sections telescope simultaneously.	000000000000000000000000000000000000000	33
[[[]]] [] [] [] [] [] [] []	000000000000000000000000000000000000000	40
\(\sigma_{\text{0000}}\sqrt{00} \sqrt{\text{000}}\sqrt{00} \sqrt{\text{000}}\sqrt{00}	000000000000000000	50
\(\cos \cos \cos \sqrt{\cos \cos \cos \cos \cos \cos \cos \cos	000000000000000000	60
\(\frac{1}{20000} \) \(000000000000000000000000000000000000	_0000000000000000000	70
<u> /www www.www/ oo oooooooo//bo oooooooo//00</u>	000000000000000000000000000000000000000	80
*/ <u>0000 000000000000/00 00000000000/00 000000</u>	000000000000000000	90
(<u>) (2000 00000000000000000000000000000000</u>	0000000000000000000	100
<u> </u>	00000000000000000	105
Outer Mid Inner Mid Tip Section Section Section 288" Stroke 288" Stroke 288" Stroke	Base Section	

TIRE INFLATION

Tire Size	Operation	Tire Pressure (psi)
12 R 22.5	Creep 2.5 mph	120 110

PONTOON LOADINGS

Maximum Pontoon Load:	Maximum Pontoon Ground Bearing Pressure:
61,750 lbs.	137 psi

CAPACITY DEDUCTIONS FOR AUXILIARY LOAD HANDLING EQUIPMENT

Load Handling Equipment:					
Auxiliary Head Attached					
25-ton quick reeve 3 sheave hook block (see hook block	for actual weight)	670			
40-ton quick reeve 4 sheave hook block (see hook block	for actual weight)	780			
8.5-ton hook ball (see hook ball for actual weight)					
Lifting From Main Boom With:					
28.5 ft. or 51 ft. fly stowed on base (see operation note 4)					
28.5 ft. offset fly erected but not used					
51 ft. offset fly erected but not used					
Lifting From 28.5 ft. Offset Fly With:					
22.5 ft. fly tip erected but not used PROHIBITI					
22.5 ft. fly tip stowed on 28.5 ft. offset fly PROHIBITE					
Note: Capacity deductions are for Link-Belt supplied equipment only.					

WINCH PERFORMANCE

Winch Line Pulls			Down Bono Consoity (ft.)		
Wire	Two Speed	l Winch	Drum Rope Capacity (ft.)		
Rope	Low Speed	High Speed		Total	
Layer	Available Lbs.*	Available lbs.	Layer		
1	13,010	6,418	77	77	
2	11,768	5,805	85	162	
3	10,742	5,299	93	255	
4	9,881	4,874	101	356	
5 9,148		4,513	109	465	
*Maxin	*Maximum lifting capacity: Type RB Rope=9,080, Type ZB Rope=11,080				

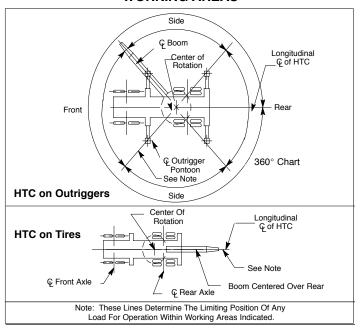
WIRE ROPE CAPACITY

Maximum Lifting Capacities Based On Wire Rope Strength					
Davis of Line	5/8"	5/8"	Netes		
Parts of Line	Type RB	Type ZB	Notes		
1	9,080	11,080			
2	18,160	22,160	Capacities shown are in pounds		
3	27,240	33,240	and working loads must not ex-		
4	36,320	44,320	ceed the ratings on the capacity charts in the Crane Rating Manual.		
5	45,400	55,400			
6	54,480	66,480	Study Operator's Manual for wire rope inspection procedures and		
7	63,560	77,560	single part of line applications.		
8	72,640	88,640			
9	81,720	_			
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

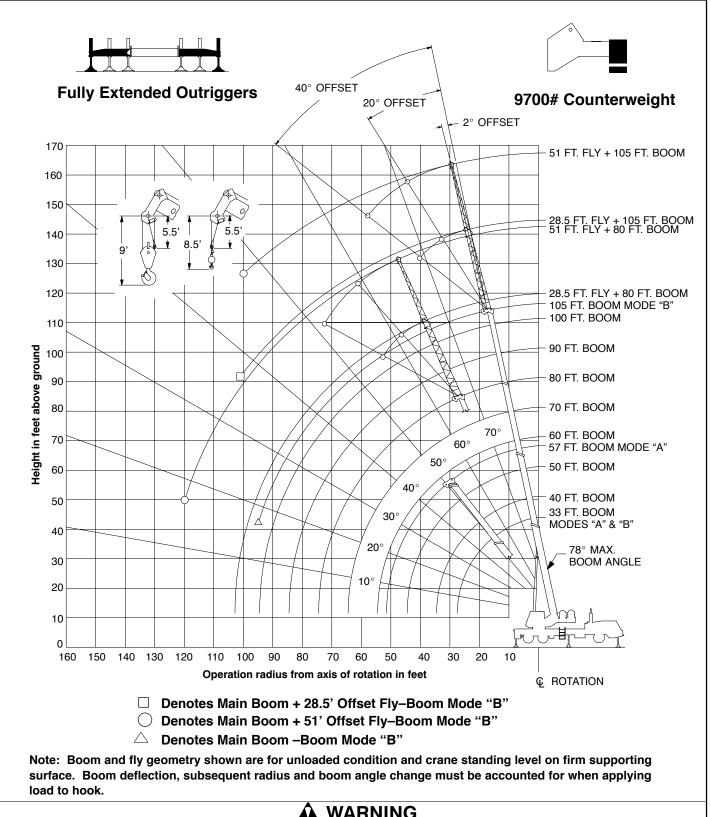
Function	Pressure (PSI)
Front And Rear Winch	3100
Outriggers	3000
Boom Hoist	3350
Telescope	3000
Swing	1500
Steering	2000
Bumper Outrigger	650
Pilot Control	500

WORKING AREAS





WORKING RANGE DIAGRAM



WARNING

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.



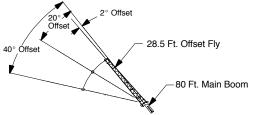
Rated Lifting Capacities In Pounds Fully Extended Outriggers See Set Up Note 2 9,700 lbs. FULL EXTENSION MAIN BOOM "A"							
Load		33 Ft.			40 Ft.		
Radius (Ft.)	×°	360°	Over Rear	×°	360°	Over Rear	
9	68.0	80,000	80,000				
10	66.0	72,300	72,300	70.5	72,300	72,300	
12	62.0	65,500	65,500	67.5	65,200	65,200	
15	55.5	55,600	55,600	62.5	55,300	55,300	
20	43.5	42,200	42,200	54.0	41,900	41,900	
25	26.5	29,900	29,900	44.0	29,700	29,700	
30				31.0	21,500	21,500	
Min. Bm. Ang./Cap	0 (27.5)	18,400	18,400	0 (34.5)	14,100	14,100	
Load	50 Ft.			57 Ft.			
Radius (Ft.)	×°	360°	Over Rear	×°	360°	Over Rear	
10	75.0	67,500	67,500	77.0	43,800	43,800	
12	73.0	61,200	61,200	75.0	43,800	43,800	
15	69.0	53,400	53,400	72.0	42,100	42,100	
20	62.5	41,600	41,600	66.5	34,300	34,300	
25	55.5	29,300	29,300	61.0	28,700	28,700	
30	48.0	21,300	21,300	54.5	21,100	21,100	
35	39.0	16,100	16,100	47.5	16,000	16,000	
40	27.5	12,400	12,400	40.0	12,300	12,300	
45				30.5	9,600	9,600	
50				16.0	7,600	7,600	
Min. Bm. Ang./Cap	0 (44.5)	9,300	9,300	0 (51.5)	6,900	6,900	

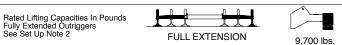
Note: Refer To Page 5 For "Capacity Deductions For Auxiliary Load Handling Equipment". \measuredangle° Loaded Boom Angle In Degrees. () Reference Radius For Min. Boom Angle Capacities (Shown in Parenthesis) Are In Feet.

Rated Liftin	na Capac	ities			9,700 lbs	s _	Ιİ	Ţ	
In Pounds Fully Exter	•			=	-,		FULL	EXTENS	SION
See Set U	p Note 2	nggera	0000	[00 [00/_00	\preceq ma	IN BOO	M "B"	
1		33 Ft.	<u> </u>	40 Ft. 50 Ft.					
Load Radius	. 0		Over	. 0		Over	. 0		Over
(Ft.)	X	360°	Rear	X	360°	Rear	X	360°	Real
9	68.0	80,000	80,000						
10	66.0	72,300	72,300	70.5	35,000	35,000	74.5	35,000	35,00
12	62.0	65,500	65,500	67.5	35,000	35,000	72.5	35,000	35,00
15	55.5	55,600	55,600	62.5	35,000	35,000	68.5	35,000	35,00
20	43.5	42,200	42,200	54.0	35,000	35,000	62.5	35,000	35,00
25	26.5	29,900	29,900	43.5	30,700	30,700	55.5	31,100	31,10
30				31.0	22,400	22,400	47.5	23,000	23,00
35							39.0	17,700	17,70
40							27.5	14,000	14,00
Min. Bm. Ang./Cap	0 (27.5)	18,400	18,400	0 (34.5)	13,500	13,500	0 (44.5)	9,200	9,20
Load		60 Ft.			70 Ft.			80 Ft.	ı
Radius (Ft.)	ヹ゜	360°	Over Rear	×°	360°	Over Rear	ヹ゜	360°	Ove Rea
10	77.5	35,000	35,000						
12	75.5	35,000	35,000						
15	72.5	35,000	35,000	75.5	35,000	35,000			
20	67.5	35,000	35,000	71.5	35,000	35,000	74.5	30,700	30,70
25	62.5	31,400	31,400	67.0	31,500	31,500	71.0	26,400	26,40
30	56.5	23,200	23,200	62.5	23,400	23,400	67.0	22,900	22,90
35	50.5	18,000	18,000	57.5	18,100	18,100	62.5	18,200	18,20
40	43.5	14,300	14,300	52.0	14,500	14,500	58.5	14,600	14,60
45	35.5	11,600	11,600	46.5	11,800	11,800	53.5	11,900	11,90
50	25.0	9,500	9,500	40.0	9,700	9,700	49.0	9,900	9,90
55				33.0	8,100	8,100	43.5	8,200	8,20
60				23.0	6,700	6,700	37.5	6,800	6,90
65							31.0	5,700	5,80
70 Min. Bm.	0			0			22.0 0	4,700	4,80
Ang/Cap	(54.5)	6,500	6,500	(64.5)	4,600	4,600	(74.5)	3,300	3,30
Load Radius		90 Ft.			100 Ft.	_		105 Ft.	_
(Ft.)	ヹ゜	360°	Over Rear	X °	360°	Over Rear	∡ů	360°	Ove Rea
20	77.0	27,400	27,400						
25	73.5	23,500	23,500	76.0	21,000	21,000	76.5	17,500	17,50
30	70.0	20,500	20,500	73.0	18,700	18,700	74.0	17,500	17,50
35	66.5	18,100	18,100	70.0	16,500	16,500	71.0	15,700	15,70
40	63.0	14,700	14,700	66.5	14,600	14,600	68.0	13,800	13,80
45	59.0	12,000	12,000	63.0	12,000	12,000	65.0	12,100	12,10
50	55.0	9,900	9,900	59.5	10,000	10,000	61.5	10,000	10,00
55	50.5	8,300	8,400	56.0	8,400	8,400	58.5	8,400	8,40
60	46.0	6,900	7,000	52.5	7,000	7,100	55.0	7,000	7,10
65	41.5	5,800	5,900	48.5	5,800	6,000	51.0	5,900	6,00
70	35.5	4,800	4,900	44.0	4,900	5,000	47.0	4,900	5,10
75 90	29.5	4,000	4,100	39.5	4,100	4,200	43.0	4,100	4,30
80	21.0	3,300	3,400	34.0	3,400	3,500	38.5	3,400	3,60
85				28.0 20.0	2,800	2,900	33.5	2,800	3,00
90 95				20.0	2,200	2,400	27.5 19.5	2,200 1,800	2,40
Min. Bm.	0			0			17.0	1,000	2,00
Ang./Cap	(84.5)	2,300	2,300	(94.5)	1,500	1,500	(96.3)		

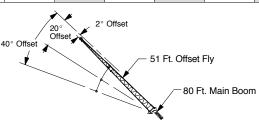
Note: Refer To Page 5 For "Capacity Deductions For Auxiliary Load Handling Equipment". \measuredangle° Loaded Boom Angle In Degrees. () Reference Radius For Min. Boom Angle Capacities (Shown In Parenthesis) Are In Feet.







Load	2° O	2° Offset 20° Offset		40° C	Offset	
Radius (Ft.)	×°	360°	×°	360°	×°	360°
25	77.0	15,200				
30	74.5	13,900				
35	72.0	11,900	76.0	8,700		
40	69.0	11,000	73.0	8,100	77.0	6,100
45	66.0	10,300	70.0	7,600	74.0	5,800
50	63.0	9,600	67.0	7,100	71.0	5,600
55	60.0	8,900	64.0	6,700	67.5	5,400
60	57.0	7,900	61.0	6,400	64.0	5,300
65	53.5	6,700	57.5	6,000	60.5	5,100
70	49.5	5,800	54.0	5,800	57.0	5,000
75	45.5	4,900	50.0	5,300	52.5	4,900
80	41.5	4,200	45.5	4,500	48.0	4,700
85	37.0	3,600	41.0	3,800	42.5	3,900
90	31.5	3,000	35.5	3,200		
95	25.5	2,500	28.5	2,700		
100	16.5	2,100	18.5	2,200		
Min. Bm. Ang./Cap.	0	1,300	0	1,400	0	1,500



Fully Extended Outriggers							
See Set Up Note 2			FULL EX	KTENSION	9,	700 lbs.	
Load	2° C	Offset	set 20° Offset 40° Of		Offset		
Radius (Ft.)	×°	360°	×°	360°	×°	360°	
35	76.0	7,400					
40	74.0	6,700					
45	71.5	6,100	78.0*	4,200			
50	69.5	5,600	76.0	3,900			
55	67.0	5,100	73.5	3,700			
60	64.5	4,700	71.0	3,500	77.0	2,700	
65	62.0	4,300	68.5	3,300	74.5	2,600	
70	59.5	4,000	66.0	3,100	72.0	2,500	
75	57.0	3,800	63.0	2,900	69.0	2,400	
80	54.0	3,500	60.5	2,800	66.0	2,300	
85	51.0	3,300	57.5	2,700	62.5	2,300	
90	48.0	3,100	54.5	2,600	59.5	2,200	
95	45.0	2,900	51.0	2,500	55.5	2,200	
100	41.5	2,700	47.5	2,400	51.5	2,200	
105	37.5	2,300	43.5	2,300	47.0	2,100	
110	33.0	2,000	39.0	2,200	41.5	2,100	

26.5 **WARNING**

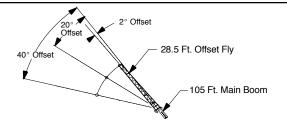
33.5

1,800

1 500

Do Not Lower 51 Ft. Offset Fly In Working Position Below 17° Main Boom Angle Unless Main Boom Length Is 78 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.

Note: Refer To Page 5 For "Capacity Deductions For Auxiliary Load Handling Equipment". ≾° Loaded Boom Angle In Degrees. * This Capacity Based On Maximum Obtainable Boom Angle.



Fully Exter	ng Capacities nded Outrigge				1 [
See Set Up Note 2			FULL I	EXTENSION	l	9,700 lbs.		
Load	2° Offset		2° Offset 20° Offset		40° Offset			
Radius (Ft.)	Χ°	360°	×°	360°	Χ°	360°		
35	76.5	9,000						
40	74.5	9,000	78.0*	7,900				
45	72.5	8,800	76.0	7,500				
50	70.0	7,900	73.5	7,200	76.5	5,700		
55	67.5	7,200	71.0	6,600	74.0	5,500		
60	65.5	6,600	69.0	6,100	71.5	5,400		
65	63.0	6,100	66.5	5,700	69.5	5,200		
70	60.5	5,500	64.0	5,300	66.5	5,000		
75	57.5	4,700	61.0	4,900	64.0	4,700		
80	54.5	4,000	58.5	4,400	61.0	4,400		
85	51.5	3,300	55.0	3,700	58.0	4,000		
90	48.5	2,800	52.0	3,100	54.5	3,300		
95	45.0	2,300	48.5	2,600	51.0	2,800		
100	41.5	1 900	45.0	2 100	47.0	2 300		

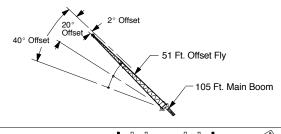
41.0 **WARNING**

1,700

42.5

1,800

Do Not Lower 28.5 Ft. Offset Fly In Working Position Below 37° Main Boom Angle Unless Main Boom Length Is 86 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.



Rated Lifting Capacities In Pounds Fully Extended Outriggers See Set Up Note 2		FULL EXTENSION		9,700 lbs.			
Load	2° O	ffset	20°	20° Offset		40° Offset	
Radius (Ft.)	×°	360°	×°	360°	×°	360°	
40	77.5	5,800					
45	75.5	5,700					
50	74.0	5,400					
55	72.0	5,100	77.5	3,700			
60	70.5	4,800	75.5	3,500			
65	68.5	4,500	73.5	3,400			
70	66.5	4,200	71.5	3,200	76.5	2,500	
75	64.5	3,900	69.5	3,100	74.5	2,400	
80	62.0	3,600	67.5	2,900	72.5	2,400	
85	60.0	3,300	65.5	2,800	70.5	2,300	
90	58.0	3,000	63.5	2,700	68.0	2,300	
95	55.5	2,800	61.0	2,600	65.5	2,200	
100	53.0	2,300	58.5	2,500	63.0	2,200	
105	50.0	1,900	56.0	2,300	60.5	2,200	
110			53.5	2,000	57.5	2,100	
115			50.5	1,600	54.5	1,900	
120					51.0	1,500	

WARNING

Do Not Lower 51 Ft. Offset Fly In Working Position Below 47.5° Main Boom Angle Unless Main Boom Length Is 78 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.

Note: Refer To Page 5 For "Capacity Deductions For Auxiliary Load Handling Equipment". ∠ Loaded Boom Angle In Degrees. *This Capacity Based On Maximum Obtainable Boom Angle.

Link—Belt Construction Equipment Company

1.600

1.400

Lexington, Kentucky

105

38.0

1,500

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115

120

28.0

22 0

Bated Lifting Canacities In Pounds