

RTC-8050 50-ton

Hydraulic Rough Terrain Crane

- 172' (52.43 m) On-Board Tip Height
- Full Power Four-Section Boom
- Rated Capacity Limiter (RCL)
- Two Attachment Options



The RTC-8050 Features The
Confined Area Lifting Capacities
(CALC™) System



The Link-Belt RTC-8050...

Featuring unmatched customer benefits such as the Confined Area Lifting Capacities (CALC™) System, Full Power Four-Section Boom, and Integral Rated Capacity Limiter (RCL).

Operator Control Center Designed for maximum operator comfort and control with these features:

Fabric Seat – Six-way adjustable fabric seat for all-day comfort.

Drum Rotation Indicators – Informs operator of drum rotation at all times.

Tilt/Telescoping Steering Wheel

Low Effort Control Levers

Foot Controls – For engine throttle, swing brake and travel brake. Foot controls for boomhoist available.

Additional Cab Features Include:

- Sound suppressed environmental cab.
- Large front and door windows for excellent visibility.
- Tinted glass.
- Sliding right side and rear windows and swing-up top window provide excellent ventilation.

Integral Rated Capacity Limiter

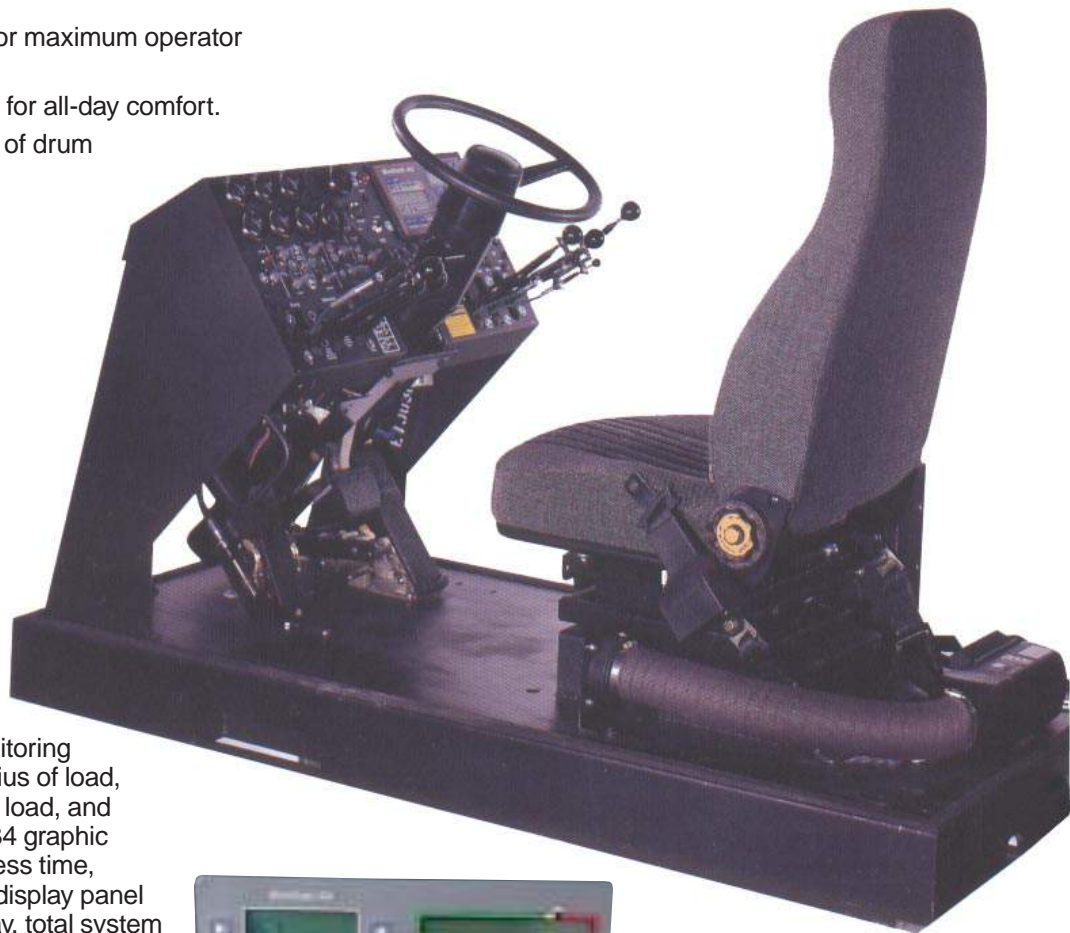
This "LMI" system aids the operator in safe and efficient operation by continuously monitoring boom length, boom angle, head height, radius of load, machine configuration, allowed load, actual load, and percent of allowed load. This Microguard 434 graphic audio-visual system features improved access 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 RTC-8050 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 RTC-8050 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.



Operator Cab Dash Dash panel provides easy control access for the operator. Conveniently located, this panel houses control levers and switches for wiper, fan, lights, steering mode select, ignition, throttle lock, and outrigger functions. Mechanical controls are provided for 360° swing lock and travel swing lock. Toggle switches are rubber encased for protection against dust and moisture. Comprehensive and easy to read gauges monitor hydraulic oil temperature, battery charge, fuel level, water temperature, engine oil pressure, air pressure and transmission temperature. And a standard sight level bubble aids in machine setup.



Superior controllability, performance,

The RTC-8050 with 172' (52.43 m) of on-board tip height is specifically designed to give contractors and rental house companies the best equipment value in the 50-ton RT class.

Jobsite Maneuverability

Maneuvering the RTC-8050 on the job site is made easier with independent controls for steering. Steering modes include independent front steer, four wheel coordinated steer and "crab" steering for tight job site situations. All steering wheel controlled.



Power Train Utilizing a standard Cummins engine and Clark transmission translates to maximum parts availability as these components are common to many drive trains used in the construction industry. The Cummins 215 horsepower (160 kW) engine is coupled to a Clark 6-speed forward, 2-speed reverse powershift transmission. This electric over hydraulic transmission is far superior to air shift which have the potential to freeze up in cold weather conditions.

Gear Pumps One triple gear and one single gear type pump provide hydraulic power. A mechanical disconnect on the triple pump saves wear on the hydraulic system and reduces the load placed on the engine when travelling long distances.

Added Value Carrier Features Large grab handles and steps strategically located around the RTC-8050 provide superior accessibility to carrier deck areas and engine for routine maintenance and service. Safety strips on top of the deck and fenders provide a non-slip surface for maintenance personnel.

A standard oversize storage compartment is ideal for tools, slings, and accessories. Additionally an outrigger cover package, lightweight aluminum outrigger floats with a "quick latch" feature, rigid front axle for greater stability in rough terrain, dual full air service/emergency brake for improved braking, air service ports, complete light package, and aluminum fuel tank for less condensation and corrosion set new rough terrain crane standards...superior customer benefits for superior customer value.

Two-Part Paint Coating System Setting another new industry standard, Link-Belt



Pre-Painted components

is utilizing a two-part coating technology coupled with a pre-paint process before assembly to provide the finest quality coating system available today. This new 2-part paint and coating technology provides superior adhesion and abrasion resistance. In addition, because all parts are painted before assembly, 100% coverage of each part is realized, virtually eliminating corrosion bleed-through that is common with old paint processes.

The combination of this paint's superior abrasion resistance and the pre-painting technique dramatically enhances the aesthetic appeal of the final machine as nuts, bolts, hoses, and a whole multitude of piece parts are no longer painted. As a result, paint chipping, cracking, and paint deterioration is substantially reduced when service work and disassembly is required.



and reliability...all Link-Belt Standards!

Superior Hydraulics

Multi-Function Control For greater productivity and control, the three pump hydraulic circuit allows simultaneous function of boomhoist, winch and swing...setting the standard in the 50-ton class.

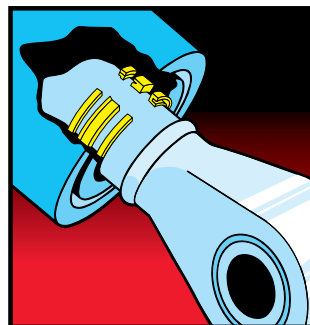
Simplified Routings The RTC-8050 incorporates simplified hydraulic routings for easy access. Fittings and connections are staggered where necessary for quick and easy servicing.

Serviceability 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 gauge kit (optional).



Diagnostic Kit

State-Of-The-Art Oil Seal Technology The RTC-8050 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 'ORFS' technology used throughout the machine, leads to an environmentally dry system.



Hoist System

Delivers superior hoisting to the 50-ton rough terrain class

Model 2M main winch with two speed motor and automatic brake; power up/down mode of operation. Bi-directional gear-type hydraulic motor, driven through a double planetary reduction unit provides precise, smooth load control with minimal engine rpm.



Matched sizes of main and auxiliary winches provide equal maximum available line pulls of 16,200 lbs. (7 348 kg) and maximum line speeds of 474 f.p.m. (144 m/min.) on 17" (.43 m) root diameter grooved drums.



Computer-Aided Design Link-Belt has pursued a course of 'continuous innovation' to set new standards for hydraulic crane design...design originals that improve reliability and performance.

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



Industry first innovations...

Confined Area Lifting Capacities (CALC™) System



The RTC-8050 rough terrain crane 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 fully 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 because of the ability to fully level the machine, no matter the ground conditions.



Fully Extended Outriggers
22' 0" (6.71 m) spread



Intermediate Extended Outriggers
15' 6" (4.72 m) spread



Fully Retracted Outriggers
9' 3/4" (2.76 m) spread



The outrigger **position levers** (located on the outrigger boxes) are easily applied. Once the levers are engaged, the operator can set the crane in the intermediate or fully retracted outrigger mode without having to leave the cab.

Under full extension, the outrigger beams extend to a wide 22' 0" (6.71 m) spread centerline to centerline. Centerline to centerline spread dimension for intermediate outriggers measures 15' 6" (4.72 m) and 9' 3/4" (2.76 m) for fully retracted...narrow enough to fit in extremely tight working areas but with the stability and capacities provided by being set on outriggers.

A thorough, easy-to-read crane rating manual gives the operator comprehensive capacities covering the three outrigger positions with all attachments plus 'pick and carry' capacities.

The **CALC** System...another industry innovation from Link-Belt designed for exceptional customer value.

Full Power Boom With Exclusive *A*-max Mode

A customer benefit which enhances the 8050'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 offers a full power, synchronized mode of telescoping all sections proportionally to 110' 0" (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.



Basic boom extend mode



Exclusive *A*-max boom extend mode

Patented boom design

EXCLUSIVE

Patented Design
THE BOSS
THE ORIGINAL EMBOSSED BOOM STIFFENER

Embossed Sidewall Stiffeners With No-Weld Corners

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 boom technology.

Boom Wear Shoes Boom telescope sections are supported by adjustable wear shoes both vertically and horizontally.

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-of-the-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' 0" (10.82 – 33.53 m) four-section boom.
- Stowable, 34' (10.36 m) offsettable (1°, 15°, or 30° offset), one piece lattice type fly. Available 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.



Stowable Attachments

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

Added Value Attachment Features

- **Hammerhead Boom Nose** Allows the operator to work at high boom angles without fouling wire rope.
- **Deflector Rollers** Prevent premature wire rope wear when working at low boom angles.
- **Lightweight Nylon Head Sheaves** Reduce overall machine weight and increase 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

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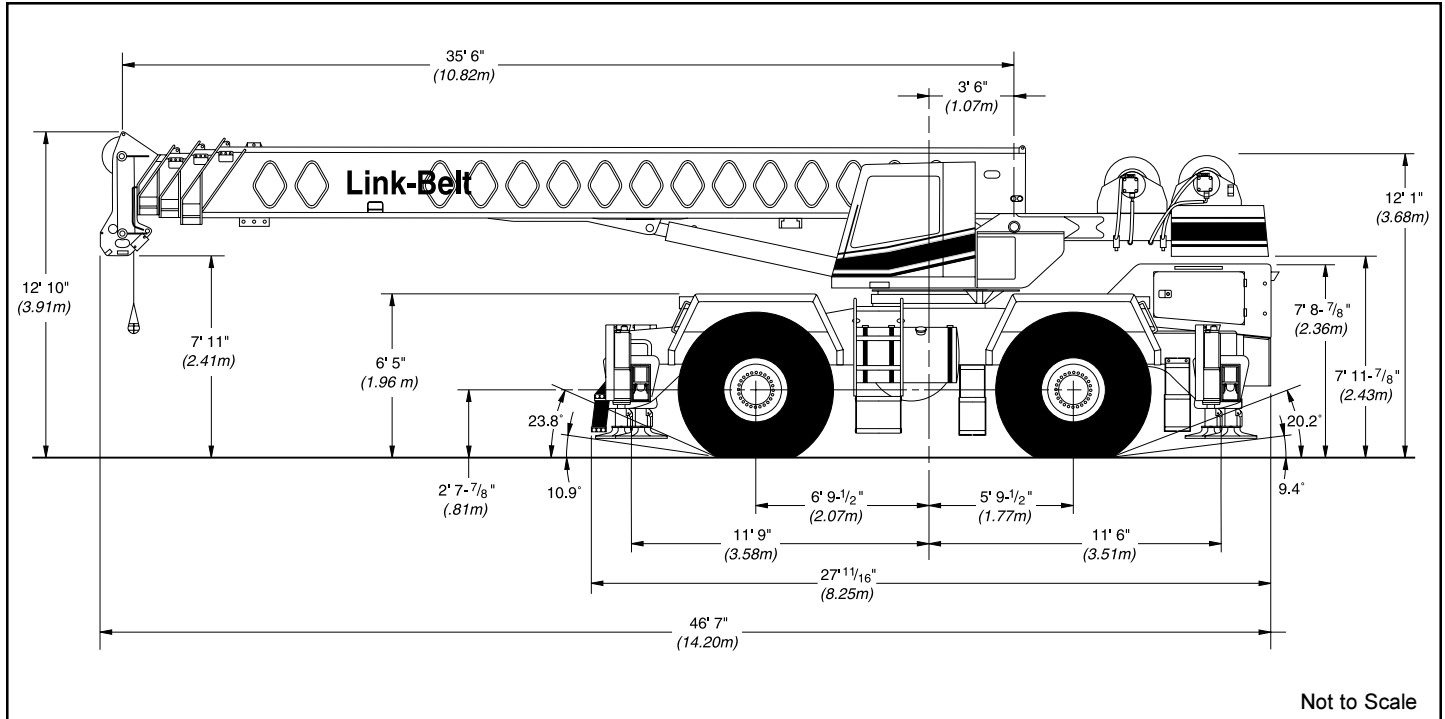
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Specifications

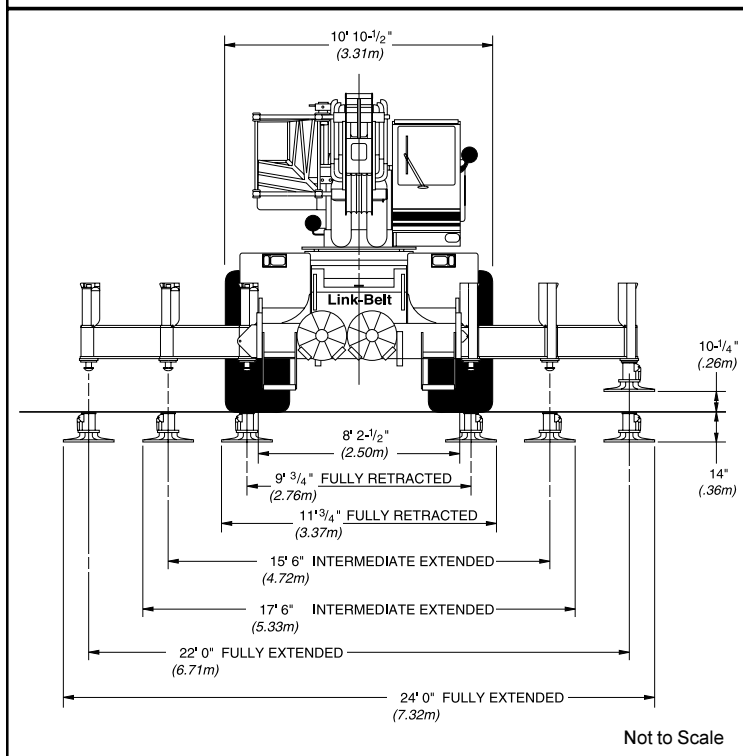
Hydraulic Rough Terrain Crane

RTC-8050

50-ton (45.36 metric ton)



Not to Scale



Not to Scale

General dimensions	feet	meters
Turning radius (4-wheel steer - centerline of tires)	23' 10"	7.26
Turning radius (2-wheel steer - centerline of tires)	46' 9"	14.27
Turning radius (4-wheel steer - outside front carrier corner)	27' 5"	8.36
Turning radius (2-wheel steer - outside front carrier corner)	49' 10"	15.19
Tailswing of counterweight	14' 0"	4.27

Upperstructure

■ 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.

Microguard 434, Rated Capacity Limiter "RCL" - Standard; Graphic audio-visual warning system built into dash with anti-two block and function limiters. Operating data available includes boom length, boom angle, head height, radius of load, machine configuration, allowed load, actual load and percent of allowed load. Presettable alarms for maximum and minimum boom angles, max. tip height, max. boom length, swing left/right positions. Operator defined area alarm is standard. Anti-two block weight designed for quick reeve of hookblock.

Optional; Load rating bar graph for quick operator reference.

Boom — 35' 6" - 110' 0" (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' 0" (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.

Boom head — Four 16-1/2" (0.42 m) root diameter nylon sheaves with a fifth nylon sheave available to handle up to 10 parts of wire rope. 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.

Auxiliary lifting sheave — *Optional;* Single 16-1/2" (0.42 m) root diameter nylon sheave with removable wire rope guard, mounted to boom. For 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.

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°.

■ Fly

Optional — 34' (10.36 m) offsettable stowable one-piece lattice type with lugs to allow for addition of second section. Can be offset 1°, 15°, or 30°.

Optional — 34' - 56' (10.36 - 17.07 m) offsettable stowable 2-piece lattice type. Can be offset 1°, 15°, or 30°.

■ Cab and Controls

Environmental cab; isolated from sound and vibration by a neoprene seal. All windows are tinted and tempered safety glass. Sliding rear and right side windows and swing up roof window for maximum visibility and ventilation. Slide by door opens to 3' 0" (0.91 m) width. 6-way adjustable operator's seat with retractable seat belt. 4-way adjustable tilt/telescoping steering wheel. Control levers for swing, boom telescope, winch, and boomhoist with foot control swing brake. Outrigger sight level bubble and controls.

Cab instrumentation — Dash mounted gauges for hydraulic oil temperature, convertor temperature, oil pressure, water temperature, fuel and voltmeter. Air pressure gauge with low air warning light and buzzer.

■ Swing

Bi-directional hydraulic swing motor mounted to a planetary reducer for 360° continuous smooth swing at 2.6 r.p.m.

Swing brake — Foot operated, spring released disc brake mounted on the speed reducer.

Swing lock — Standard; two position travel lock operated from the operator's cab.

Counterweight — Bolted to upperstructure frame. 13,000 lb. (5 897 kg) cwt.

■ Hydraulic System

Main pump — 3-section gear-type pump. Combined pump capacity 142 gpm (538 lpm). Mounted on torque converter, powered by engine through a pump disconnect. Pump disconnect is a spline-type clutch engaged/disengaged from carrier. Pump operates at 3,000 p.s.i. (20.7 MPa) maximum system pressure. O Ring Face Seal (ORFS) technology throughout with hydraulic oil cooler standard.

Swing / outrigger / steering pump — Single gear-type pump, 25 gpm (95 lpm)

maximum. Mounted on torque converter, powered by engine through a straight mechanical drive. Pump operates at 3,000 p.s.i. (20.7 MPa) maximum system pressure.

Reservoir — 170 gallon (643.5 L) capacity. Diffusers for deaeration.

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

Control valves — Six separate control valves allow simultaneous operation of all crane functions.

■ Load Hoist System

Standard — 2M rear winch with grooved lagging, two-speed motor and automatic brake; power up/down mode of operation. Bi-directional gear-type hydraulic motor, driven through a planetary reduction unit for positive operator control under all load conditions. Asynchronous parallel double crossover grooved drums minimize rope harmonic motion.

Optional — 2M front winch with two-speed motor and automatic brake, power up/down mode of operation.

Line pulls and speeds — Maximum line pull 16,200 lbs. (7 348 kg) and maximum line speed of 474 f.p.m. (144 m/min) on standard 17" (0.43 m) root diameter grooved drum.

■ Additional Equipment - Standard

360° swing lock (meets New York City requirements), rotation resistant wire rope, controls for future addition of auxiliary winch, fire extinguisher, warning horn, mirrors, tilt/telescoping and locking steering wheel, drum rotation indicators, electric windshield wiper, windshield washer, circulating fan, cup holder, sun screen, backup alarm, top hatch window wiper, audible swing alarm and travel lights.

■ Additional Upperstructure Equipment - Optional

Diesel or hydraulic heater, 50-ton hook block, 8-1/2 ton hook ball, boomhoist foot control, foot and hand throttle, rear steer indicator, emergency steering system, low oil pressure & high water temperature audio/visual warning system, tachometer, air conditioning, amber strobe light, boom floodlight, and cab mounted spotlight.

Carrier

■ Type

10' 10-1/2" (3.31 m) wide, 151" (3.84 m) wheelbase.

4 x 4 x 4 — (4-wheel steer, 4-wheel drive) — For rough terrain with limited turning area.

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

■ Axles

Front- Heavy duty planetary drive/steer type.

Rear- Heavy duty planetary drive/steer type.

■ Suspension

Front axle - Rigid mounted to frame.

Rear axle - Pin-mounted on bronze bushings. Automatic hydraulic rear axle oscillation lock-out cylinders engage when upperstructure rotates past 2-1/2° of centerline.

■ Tires

Front and Rear

Standard — 29.5 x 25 (28-PR) Earthmover type.

Optional — 29.5R25 XHA 1 star radials

■ Brakes

Service — Dual, full air, drum-type brakes at each wheel end. Drum diameter 20-1/4" (0.51 m). Shoe width 4" (101.6 mm). Air service ports standard.

Air dryer — Desiccant type with change indicators; water and oil separator operational to -39°F.

Parking/emergency — Drum type spring applied, air released, fade resistant; cab controlled, mounted on front/rear axles.

■ Steering

Hydraulic two wheel, four wheel and "crab" steering; modes selected by toggle switch on dash. All modes fully controlled by steering wheel.

■ Transmission

Clark three-speed two range power shift transmission. Six speeds available forward and two reverse. Front axle disconnect for two or four-wheel drive.

■ Outriggers

Three position (fully extended, intermediate, and fully retracted) operation capability. Four hydraulic, telescoping beam and jack outriggers. Vertical jack cylinders equipped with integral holding valve. Beams extend to 22' 0" (6.71 m) centerline-to-centerline and retract to within 10' 10-1/2" (3.31 m) overall width. Equipped with stowable, lightweight 24" (0.61 m) diameter aluminum floats. Controls and sight level bubble located in upperstructure cab.

Confined Area Lifting Capacities (CALC™) System - Outriggers may be extended to an intermediate position (15' 6" - 4.72 m) for working in confined areas. In addition, capacities are available with the beams in the 9' 3/4" (2.76 m) fully retracted position. When the outrigger position levers (located on the outrigger boxes) are applied, the operator can set the crane in the intermediate or fully retracted outrigger position without having to leave the cab.

■ Additional Equipment - Standard

Cab steps, 2 front and rear carrier steps, front axle disconnect, nonskid safety strips on carrier deck, deep front storage, fenders, pontoon storage, full lighting package, 120 volt block heater, water/fuel separator on engine, lifting lugs and front towing shackles.

■ Additional Equipment - Optional

Either injection package, spare tires and rims, tire inflation kit, front and rear mounted pintle hook, outrigger cover package, and front tow winch.

Engine	Cummins 6CT8.3
Cylinders - cycle	6 - 4
Bore	4.49" (114.05 mm)
Stroke	5.32" (135.13 mm)
Displacement	504 cu. in. (8 259 cm ³)
Maximum brake hp	210 @ 2200 rpm
Peak torque (ft. lb.)	567 @ 1500 rpm
Electric system	12 volt
Starting sytem	24 volt
Fuel capacity	100 gallons (378.5 L)
Alternator	130 amps
Crankcase capacity (total system)	23.7 qts. (22.4 L)

Travel speeds and gradeability

Engine	Tires	Maximum Speed		*Gradeability at 70% converter efficiency	Maximum tractive effort at 70% converter efficiency		Gradeability at 1.0 mph (1.61 km/h)	Maximum tractive effort at 1.0 mph (1.61 km/h)	
		mph	km/h		pounds	kg		pounds	kg
Cummins 6CT8.3	29.5 X 25	20.3	32.66	105.5%	64,664	29 332	60.9%	46,839	21 246

*Machine operating angle must not exceed 35° (77% grade).

Numbers reflect main hydraulic pump engaged.

Axle loads

Base machine with standard 35' 6" — 110' 0" (10.82 - 33.53 m) four-section boom, 2M main winch with 2-speed hoisting and power up/down, 550' (167.6 m) 3/4" (19 mm) wire rope, 4x4x4 carrier with Cummins 6CT8.3 engine, 29.5 x 25.0 tires, counterweight, and no fuel.	G.V.W. ^①		Upper facing front				Upper facing rear			
			Front axle		Rear axle		Front axle		Rear axle	
		lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.
	83,867	38 042	41,299	18 733	42,568	19 309	31,068	14 092	52,799	23 950
29.5R25 XHA tires	1,240	562	620	281	620	281	620	281	620	281
Jack cylinder covers	154	70	72	33	82	37	72	33	82	37
Tow winch	686	311	1,002	454	-316	-143	1,002	454	-316	-143
100 gallons (378.5 liters) fuel	685	310	364	165	321	145	364	165	321	145
2M auxiliary winch w/550' (168 m) of 3/4" (19 mm) rope (includes cwt. change)	853	387	133	60	720	327	653	296	200	91
Diesel heater with tank	70	32	21	10	49	22	43	20	27	12
Hydraulic heater	110	50	29	13	81	37	72	33	38	17
Air conditioning	264	120	69	31	195	89	174	79	90	41
34' (10.36 m) offsettable lattice fly stowed	1,383	627	2,778	1 260	-1,395	-633	-1,505	-683	2,888	1 310
34' (10.36 m) offsettable lattice fly w/tip lugs stowed	1,466	665	2,945	1 336	-1,479	-671	-1,595	-723	3,061	1 388
34' - 56' (10.36 - 17.07 m) offsettable lattice fly stowed	2,122	963	3,913	1 775	-1,791	-812	-1,959	-888	4,081	1 851
Fly storage brackets with all fly options	160	73	257	117	-97	-44	-110	-49	270	122
Auxiliary lifting sheave assembly	110	50	343	156	-233	-106	-242	-109	352	159
8.5-ton hook ball @ boom head	325	147	977	443	-652	-296	-677	-307	1,002	454
40-ton 4-sheave hook block @ boom head	720	327	2,164	982	-1,444	-655	-1,501	-681	2,221	1,007
50-ton 4-sheave hook block @ boom head	1,109	503	3,333	1 512	-2,224	-1 009	-2,312	-1 049	3,421	1 552

① Adjust gross vehicle weight & axle loading according to component weight.

Note: All weights are ± 3%

Tire	Max. Axle Load @ 20 mph (32.7 km/hr)
29.5 x 25 (28-PR)	53,000 lbs. (24 041 kg)
29.5R25 XHA 1 Star	53,000 lbs. (24 041 kg)

Lifting Capacities

Hydraulic Rough Terrain Crane

RTC-8050 50-ton

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

Fully Extended Outriggers

- Working Range Diagram
- 35' 6" to 60.3' main boom capacities, **A-max** Mode
- 35' 6" to 110' 0" main boom capacities, Basic Mode "B"
- 34' offset fly capacities, Basic Mode "B"
- 34' - 56' 2-piece offsettable fly capacities, Basic Mode "B"

Intermediate Extended Outriggers

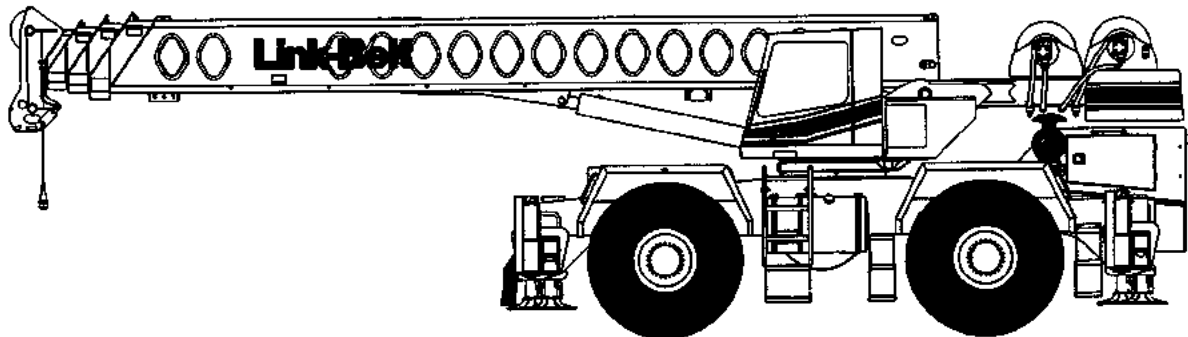
- Working Range Diagram
- 35' 6" to 60.3' main boom capacities, **A-max** Mode
- 35' 6" to 110' 0" main boom capacities, Basic Mode "B"
- 34' offset fly capacities, Basic Mode "B"
- 34' - 56' 2-piece offsettable fly capacities, Basic Mode "B"

Fully Retracted Outriggers

- Working Range Diagram
- 35' 6" to 60.3' main boom capacities, **A-max** Mode
- 35' 6" to 110' 0" main boom capacities, Basic Mode "B"

On Tires

- Working Range Diagram
- 35' 6" to 60.3' main boom capacities, **A-max** Mode
- 35' 6" to 85' 0" main boom capacities, Basic Mode "B"



CAUTION: This material is supplied for reference only. Operator must refer to in-cab crane rating manual to determine allowable machine lifting capacities and operating procedures.

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GENERAL INFORMATION ONLY

OPERATING INSTRUCTIONS

GENERAL:

1. 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 Institute (ANSI) safety standards for cranes.
4. The maximum allowable lifting capacities are based on crane standing level on firm supporting surface.

SET UP:

1. 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, or fully extended.
3. When making lifts on tires, they must be inflated to the recommended pressure. (See Operation note 19 and Tire Inflation.)
4. When operating on tires, do not exceed 76 degree maximum boom angle. Loss of backward stability will occur causing a tipping condition.
5. For required parts of line, see Wire Rope Strength and Winch Performance.

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 7000 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 7000 pounds or 80% of rated lifting capacity, whichever is less. For clamshell and magnet operation, maximum boom length is restricted to 55 feet and the boom angle is restricted to a minimum of 35 degrees. Lifts with either fly erected or boom in *A-max* Mode are prohibited for both clam and magnet operation.
2. The crane capacities shown on fully extended, or intermediate extended outriggers do not exceed 85% of the tipping loads. The crane capacities shown on fully retracted outriggers or tires do not exceed 75% of the tipping loads as determined by SAE crane stability test code J-765A.
3. The crane capacities in the shaded areas above the bold lines, are based on structural strength or hydraulic limitations. The crane 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 hook 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. Also, see Capacity Deductions For Auxiliary Load Handling Equipment.
5. 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 any radii or boom lengths (minimum or maximum) where capacities are not listed. At these positions, the crane can overturn without any load on the hook or cause boom failure.

GENERAL INFORMATION ONLY

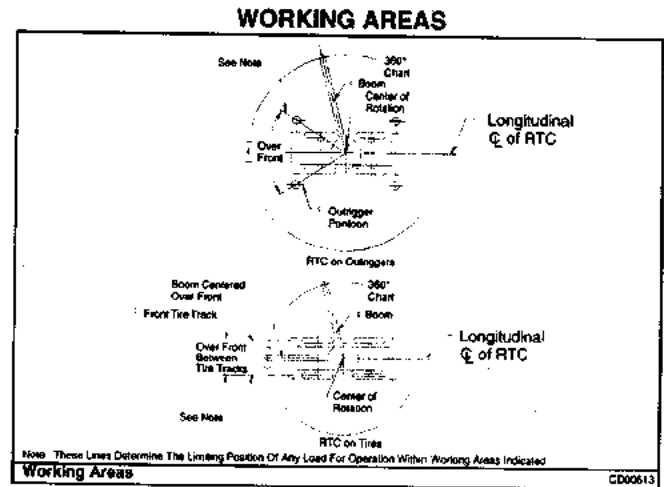
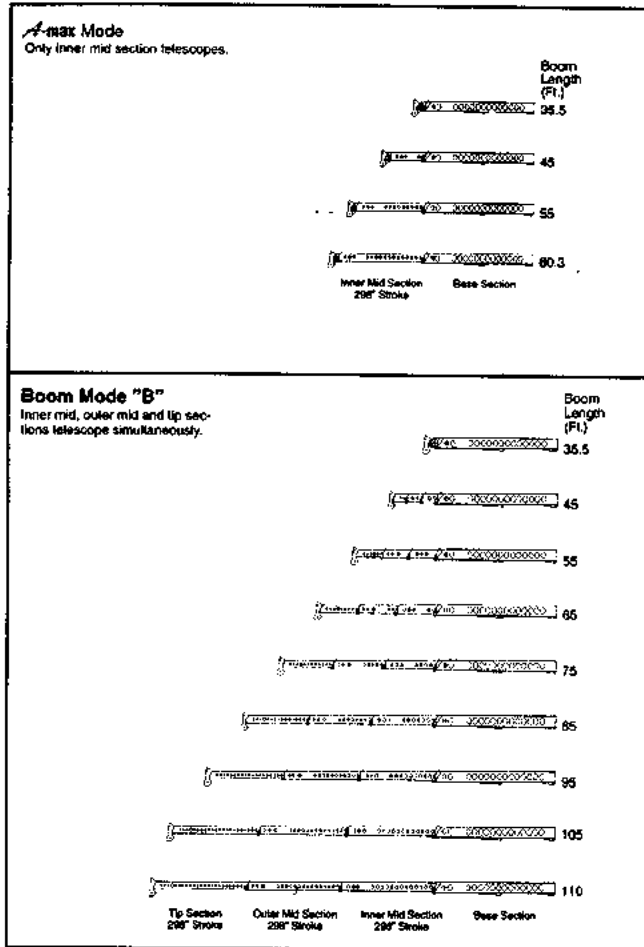
Operating Instructions (con't)

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:
 - a. For boom lengths not listed, use rating for next longer boom length or next shorter boom length, whichever 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 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 extremely dangerous.
11. When making lifts with auxiliary head machinery, the effective length of the boom increases by 2 feet.
12. Power sections of boom must be extended in accordance with ~~A~~-max Mode or Basic Mode "B". In boom mode "B" all power sections must be extended or retracted equally.
13. The least stable rated working area on outriggers is over the side.
14. Rated lifting capacities are based on correct reeving. Deduction must be made for excessive reeving. Any reeving over minimum required (see Wire Rope Strength) 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.
15. 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.
16. For fly capacities with main boom length less than 110 ft and greater than 85 ft, the rated loads 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 allowable capacity.
17. For fly capacities with main boom length less than 85 ft, the rated loads 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 allowable capacity.
18. The 35.5 ft boom length capacities are based on boom fully retracted. If the boom is not fully retracted, do not exceed capacities shown for the 45 ft boom length.
19. Crane capacities on tires depend on tire capacity, condition of tires, and tire air pressure. On tire picks require lifting from main boom head only on a smooth and level surface. Pick and carry operations are restricted to a maximum speed of 2.5 MPH. The boom must be centered over the front of the crane with two position travel swing lock engaged and the load must be restrained from swinging. Lifts with any fly erected on tires are prohibited. For correct tire pressure, see "Tire Inflation". Also see, Carrier Tire Inflation Label.

DEFINITIONS:

1. 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 after lifting the 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 stability limit radius is the radius beyond which it is not permitted to position the boom plus load handling equipment. Crane may overturn without any load on the hook.

GENERAL INFORMATION ONLY



HYDRAULIC CIRCUIT PRESSURE SETTINGS

Function	Pressure
Front And Rear Winch	2,750 psi
Outrigger	3,000 psi
Boom Hoist	2,900 psi
Telescope	3,000 psi
Swing	1,500 psi
Steering	1,600 psi

WINCH PERFORMANCE

Wire Rope Layer	Winch Line Pults		Drum Rope Capacity (ft)	
	Two Speed Winch		Layer	Total
	Low Speed Available lb	High Speed Available lb		
1	16,266*	7,726	102	102
2	14,998*	7,124	111	213
3	13,914*	6,606	120	333
4	12,976*	6,164	128	461
5	12,156	5,774	137	598
6	11,434	5,431	145	743

* Reduce to 12,920 lb if using Type RB Ropes.

WIRE ROPE STRENGTH

Parts of Line	Maximum Lifting Capacities Based On Wire Rope Strength		Notes
	3/4"	Type RB	
1*	12,920		Capacities shown are in pounds and working loads must not exceed the ratings on the capacity charts in the Crane Rating Manual. Study Operator's Manual for wire rope inspection procedures. *Use of swivel end with 1 part of line is not recommended.
2	25,840		
3	38,760		
4	51,680		
5	64,600		
6	77,520		
7	90,440		
8	103,360		
9	116,280		
10	129,200		
LBCE	DESCRIPTION		
TYPE RB	18 X 19 Rotation Resistant - Extra Improved Plow Steel - Preformed Right Lay - Regular Lay, Swaged		

CAPACITY DEDUCTIONS FOR AUXILIARY LOAD HANDLING EQUIPMENT

Load Handling Equipment	Weight (lb)
Auxiliary Head Attached	150
60 Ton Hook Block (See Hook Block For Actual Weight)	1,100
40 Ton Hook Block (See Hook Block For Actual Weight)	720
8.5 Ton Hook Ball (See Hook Ball For Actual Weight)	360
Lifting From Main Boom With:	
22 Ft. Fly Tip Stowed On Boom Base	300
34 Ft. Offset Fly Stowed On Boom Base	900
34 Ft. Offset Fly Erected But Not Used	4,400
56 Ft. Offset Fly Stowed On Boom Base	1,200
56 Ft. Offset Fly Erected But Not Used	7,900
Lifting From 34 Ft. Offset Fly With:	
22 Ft. Fly Tip Stowed On Boom Base	300
22 Ft. Tip Erected But Not Used	PROHIBITED
22 Ft. Tip Stowed On 34 Ft. Offset Fly	PROHIBITED

Note: Capacity deductions are for Link-Belt supplied equipment only.

TIRE INFLATION

Tire Size	Operation	Tire Pressure (psi)
29.5 R25-XHA	2.5 mph	80
	Stationary	80
29.5 X 25-28 Ply	2.5 mph	65
	Stationary	75

PONTOON LOADINGS

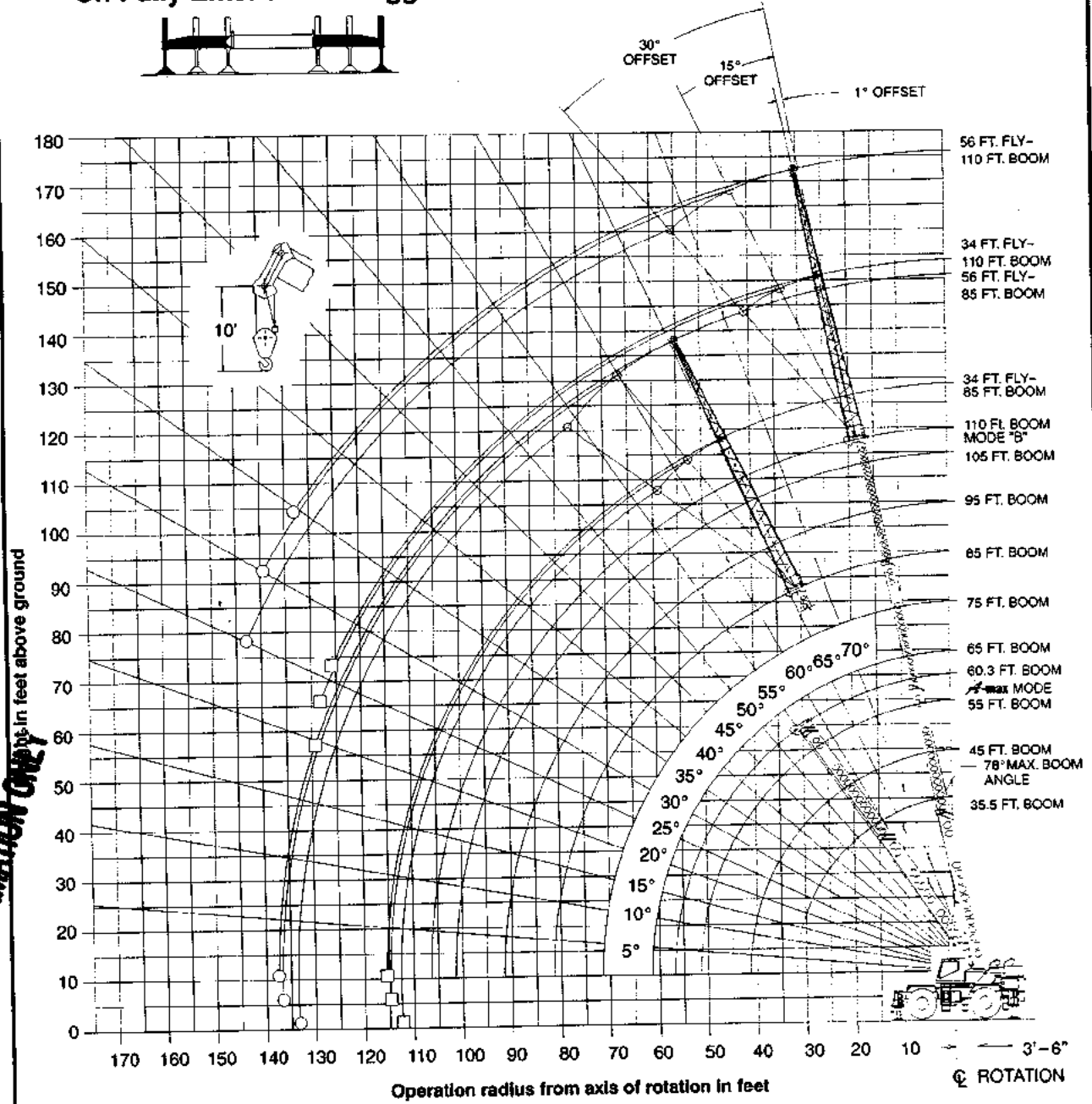
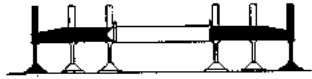
Maximum Pontoon Load:	Maximum Pontoon Ground Bearing Pressure:
94,000 lb	206 psi

OUTRIGGER SPREAD

Position	Distance
Fully Retracted	108.75" - (9'-7.5")
Intermediate Extended	196" - (15'-8")
Fully Extended	264" - (22'-0")

WORKING RANGE DIAGRAM

Working Range Diagram
On Fully Extended Outriggers



- Denotes Main Boom + 56' Fly-Boom Mode "B"
- Denotes Main Boom + 34' Fly-Boom Mode "B"

Note: Boom and fly geometry shown are for unloaded condition and crane standing level on firm supporting surface. Boom deflection, subsequent radius and boom angle change must be accounted for when applying load to hook.



WARNING

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

Fully Extended Outriggers - Main Boom Capacities

Maximum Allowable Lifting Capacities Rated Lifting Capacities in Pounds On Fully Extended Outriggers See Set Up Note 2.							
35.5 Ft. To 45 Ft. Main Boom							
Load Radius In Feet	35.5 Ft.			45 Ft.			Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Over Front	Loaded Boom Angle (Deg.)	360°	Over Front	
10	68.5	100,000	100,000	73.5	67,200	67,200	10
12	65.0	100,000	100,000	71.0	67,200	67,200	12
15	59.5	90,800	90,800	66.5	62,500	62,500	15
20	49.5	71,400	71,400	59.5	67,400	67,400	20
25	37.5	55,800	56,300	51.5	55,100	55,600	25
30	20.0	38,700	40,500	43.0	38,300	40,600	30
35				32.0	28,300	32,700	35
40				15.5	21,600	25,200	40
Min. Boom Angle/Cap.	0°	20,900	20,900	0°	14,000	14,000	Min. Boom Angle/Cap.

Maximum Allowable Lifting Capacities Rated Lifting Capacities in Pounds On Fully Extended Outriggers See Set Up Note 2.							
55 Ft. To 60.3 Ft. Main Boom							
Load Radius In Feet	55 Ft.			60.3 Ft.			Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Over Front	Loaded Boom Angle (Deg.)	360°	Over Front	
10	77.0	79,700	79,700	76.5	61,400	61,400	10
12	75.0	72,400	72,400	73.5	57,600	57,600	12
15	71.5	63,500	63,500	68.5	47,100	47,100	15
20	66.0	52,300	52,300	63.0	39,500	39,500	20
25	60.0	44,200	44,200	57.5	33,900	33,900	25
30	53.5	37,800	38,000	51.5	27,700	29,700	30
35	47.0	27,900	32,300	45.0	21,400	24,800	35
40	39.0	21,500	24,900	37.5	16,800	19,600	40
45	29.0	17,000	19,700	28.5	13,400	15,900	45
50	14.5	13,500	15,900	15.0	10,800	12,800	50
55							55
Min. Boom Angle/Cap.	0°	9,000	9,000	0°	7,100	7,100	Min. Boom Angle/Cap.

Maximum Allowable Lifting Capacities Rated Lifting Capacities in Pounds On Fully Extended Outriggers See Set Up Note 2.										
BOOM MODE "B"										
35.5 Ft. To 55 Ft. Main Boom										
Load Radius In Feet	35.5 Ft.			45 Ft.			Load Radius In Feet			
	Loaded Boom Angle (Deg.)	360°	Over Front	Loaded Boom Angle (Deg.)	360°	Over Front				
10	68.5	100,000	100,000	73.0	43,000	42,000	78.5	42,000	42,000	10
12	65.0	100,000	100,000	70.5	42,000	42,000	74.5	42,000	42,000	12
15	59.5	90,800	90,800	66.5	42,000	42,000	71.5	42,000	42,000	15
20	49.5	71,400	71,400	59.5	42,000	42,000	66.0	42,000	42,000	20
25	37.5	55,800	56,300	51.5	42,000	42,000	60.0	42,000	42,000	25
30	20.0	38,700	40,500	43.0	38,800	40,500	53.5	40,400	46,500	30
35				32.0	29,800	34,200	46.5	30,400	34,800	35
40				15.5	23,100	26,500	38.5	23,900	27,200	40
45							29.0	19,100	22,000	45
50							14.0	15,800	18,000	50
Min. Boom Angle/Cap.	0°	20,900	20,900	0°	15,100	15,100	0°	10,900	10,900	Min. Boom Angle/Cap.

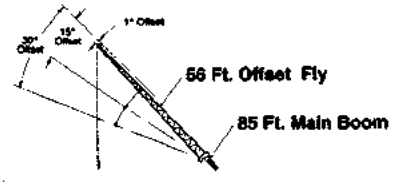
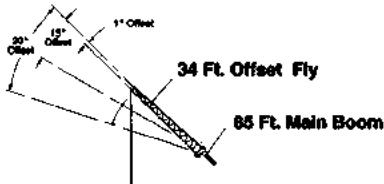
Maximum Allowable Lifting Capacities Rated Lifting Capacities in Pounds On Fully Extended Outriggers See Set Up Note 2.										
BOOM MODE "B"										
95 Ft. To 110 Ft. Main Boom										
Load Radius In Feet	95 Ft.			105 Ft.			110 Ft.			Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Over Front	Loaded Boom Angle (Deg.)	360°	Over Front	Loaded Boom Angle (Deg.)	360°	Over Front	
20	77.5	31,800	31,800	78.0	25,700	25,700	77.0	22,500	22,500	20
25	74.5	28,300	28,300	75.0	23,100	23,100	74.5	22,200	22,200	25
30	71.0	25,300	25,300	73.5	20,900	20,900	72.0	20,100	20,100	30
35	68.0	22,900	22,900	70.5	19,000	19,000	69.0	18,300	18,300	35
40	64.5	20,800	20,800	67.5	19,000	19,000	66.0	18,700	18,700	40
45	61.5	19,000	19,000	65.0	17,400	17,400	64.0	18,700	18,700	45
50	58.0	18,500	17,500	61.5	16,900	15,900	63.5	15,200	15,200	50
55	54.0	13,800	15,900	58.5	13,900	14,700	60.5	13,900	13,900	55
60	50.0	11,800	13,500	55.0	11,900	13,600	57.0	11,900	12,600	60
65	45.5	10,000	11,700	51.5	10,100	11,800	54.0	10,200	11,200	65
70	41.0	8,600	10,000	48.0	8,700	10,100	50.5	8,700	10,100	70
75	36.0	7,300	8,700	43.5	7,400	8,900	47.0	7,500	8,800	75
80	30.0	6,300	7,500	39.5	6,400	7,800	43.0	6,400	7,700	80
85	23.0	5,400	6,500	34.5	5,500	6,600	38.5	5,500	6,700	85
90	12.0	4,500	5,600	29.0	4,700	5,700	34.0	4,700	5,800	90
95				22.0	4,000	4,900	28.5	4,000	5,000	95
100				11.5	3,300	4,200	22.0	3,400	4,300	100
105							11.0	2,800	3,700	105
Min. Boom Angle/Cap.	0°	3,100	3,100	0°	2,100	2,100	0°	1,700	1,700	Min. Boom Angle/Cap.

Maximum Allowable Lifting Capacities Rated Lifting Capacities in Pounds On Fully Extended Outriggers See Set Up Note 2.										
BOOM MODE "B"										
65 Ft. To 85 Ft. Main Boom										
Load Radius In Feet	65 Ft.			75 Ft.			85 Ft.			Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Over Front	Loaded Boom Angle (Deg.)	360°	Over Front	Loaded Boom Angle (Deg.)	360°	Over Front	
12	77.0	42,000	42,000	77.0	42,000	42,000	75.5	36,000	36,000	12
15	74.5	42,000	42,000	73.0	42,000	42,000	72.0	31,500	31,500	15
20	70.0	42,000	42,000	69.0	41,700	41,700	72.0	31,500	31,500	20
25	65.5	42,000	42,000	65.0	37,100	37,100	68.5	28,200	28,200	25
30	60.5	40,700	40,500	60.5	30,300	32,500	64.5	25,400	25,400	30
35	55.0	30,700	35,100	56.0	24,400	27,800	61.0	23,000	23,000	35
40	49.0	24,200	27,600	51.0	19,700	22,600	57.0	19,300	21,100	40
45	43.0	19,500	22,300	46.0	15,300	18,700	52.5	16,400	18,800	45
50	35.5	19,000	18,400	40.0	13,800	15,600	48.0	13,700	15,800	50
55	27.0	13,300	15,400	33.5	11,500	13,200	43.0	11,700	13,400	55
60	13.5	11,100	12,900	25.0	9,700	11,300	38.0	9,900	11,500	60
65				12.5	8,200	9,700	31.5	8,400	9,900	65
70							24.0	7,200	8,500	70
75							12.0	6,100	7,300	75
80										80
Min. Boom Angle/Cap.	0°	8,000	8,000	0°	5,900	5,900	0°	4,300	4,300	Min. Boom Angle/Cap.

NOTE: Refer To Page 5 For "Lifting Capacity Deductions" For Capacity Reductions Caused By Stowed Or Erected Auxiliary Load Handling Equipment.

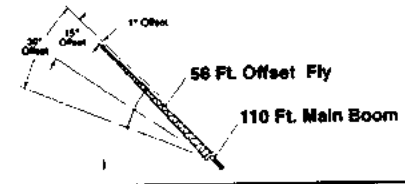
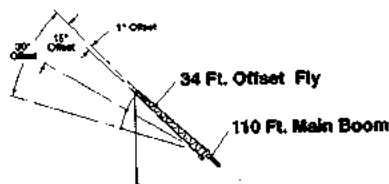
GENERAL INFORMATION ONLY

Fully Extended Outriggers - Fly Capacities - Boom Mode "B"



BOOM MODE "B"							
Maximum Allowable Lifting Capacities Rated Lifting Capacities in Pounds On Fully Extended Outriggers See Set Up Note 2.							
85 Ft. Main Boom + 34 Ft. Offset Fly							
Load Radius In Feet	1° Offset		15° Offset		30° Offset		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
25	77.5	18,600					25
30	75.0	17,000					30
35	73.0	15,800	76.5	12,000			35
40	70.5	14,500	74.0	11,400	77.5	9,400	40
45	68.0	13,600	71.5	10,800	75.0	9,100	45
50	65.5	12,700	69.0	10,400	72.5	8,800	50
55	62.5	11,900	66.5	9,900	69.5	8,400	55
60	60.0	11,100	63.5	9,500	67.0	8,100	60
65	57.0	10,300	60.5	9,100	64.0	7,800	65
70	54.0	9,600	58.0	8,800	61.0	7,500	70
75	51.0	8,900	54.5	8,400	58.0	7,300	75
80	47.5	7,500	51.5	8,000	54.5	7,100	80
85	44.0	6,600	48.0	7,000	51.0	6,900	85
90	40.0	5,800	44.0	6,100	47.0	6,400	90
95	36.0	5,100	39.5	5,400	42.5	5,600	95
100	31.5	4,400	35.0	4,700	37.5	4,900	100
105	26.0	3,900	29.5	4,100	31.5	4,200	105
110	19.5	3,400	22.5	3,500	23.0	3,500	110
Min. Boom Angle/Cap.	0°	1,800	0°	1,800	0°	1,800	Min. Boom Angle/Cap.

BOOM MODE "B"							
Maximum Allowable Lifting Capacities Rated Lifting Capacities in Pounds On Fully Extended Outriggers See Set Up Note 2.							
85 Ft. Main Boom + 56 Ft. Offset Fly							
Load Radius In Feet	1° Offset		15° Offset		30° Offset		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
35	78.5	11,100					35
40	74.5	10,500					40
45	72.5	9,800	77.5	7,100			45
50	70.0	9,800	75.5	6,700			50
55	68.0	8,100	73.0	6,300			55
60	66.0	7,600	71.0	5,900	76.0	4,800	60
65	63.5	7,000	69.0	5,500	74.0	4,600	65
70	61.5	6,600	66.5	5,300	71.5	4,500	70
75	59.0	6,200	64.0	5,100	69.0	4,300	75
80	56.5	5,900	61.5	4,800	66.5	4,100	80
85	54.0	5,500	59.0	4,600	64.0	4,000	85
90	51.5	5,200	56.5	4,400	61.5	3,900	90
95	49.0	4,900	54.0	4,300	58.5	3,800	95
100	46.0	4,700	51.0	4,100	55.5	3,700	100
105	43.0	4,400	48.0	3,900	52.0	3,600	105
110	39.5	4,000	44.5	3,800	49.0	3,500	110
115	36.0	3,500	41.0	3,700	45.0	3,400	115
120	32.0	3,100	37.0	3,300	40.5	3,400	120
125	27.5	2,700	32.5	2,900	35.0	3,000	125
130	22.0	2,300	26.5	2,500	28.0	2,500	130
135	14.5	2,000	18.0	2,100			135
Min. Boom Angle/Cap.	0°	900	0°	900	0°	1,000	Min. Boom Angle/Cap.



BOOM MODE "B"							
Maximum Allowable Lifting Capacities Rated Lifting Capacities in Pounds On Fully Extended Outriggers See Set Up Note 2.							
110 Ft. Main Boom + 34 Ft. Offset Fly							
Load Radius In Feet	1° Offset		15° Offset		30° Offset		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
35	78.5	10,500					35
40	74.5	10,600					40
45	72.5	10,500	76.0	9,800			45
50	70.5	9,800	74.0	9,000	77.0	8,300	50
55	68.5	9,300	71.5	8,200	75.0	7,700	55
60	66.5	8,200	69.5	7,600	72.5	7,100	60
65	64.0	7,500	67.5	7,000	70.5	6,800	65
70	62.0	6,900	65.0	6,500	68.0	6,200	70
75	59.5	6,400	63.0	6,100	65.5	5,900	75
80	57.5	6,000	60.5	5,700	63.0	5,500	80
85	55.0	5,600	58.0	5,300	60.5	5,100	85
90	52.5	5,100	55.5	5,000	58.0	4,800	90
95	49.5	4,700	53.0	4,700	55.5	4,600	95
100	47.0	4,200	50.0	4,300	52.5	4,300	100
105	43.5	3,900	47.0	3,900	49.5	4,000	105
110	40.5	3,100	43.5	3,400	46.0	3,600	110
115	37.0	2,800	40.5	2,900	42.5	3,100	115
120	33.5	2,200	36.5	2,400	38.5	2,800	120
125	29.5	1,800	32.5	2,000	34.0	2,100	125
130			27.5	1,600	26.5	1,700	130

WARNING
Do Not Lower 34 Ft. Offset Fly in Working Position Below 26 Degrees Unless Main Boom Length is 98 Ft. Or Less, Since Loss of Stability Will Occur Causing A Tipping Condition.

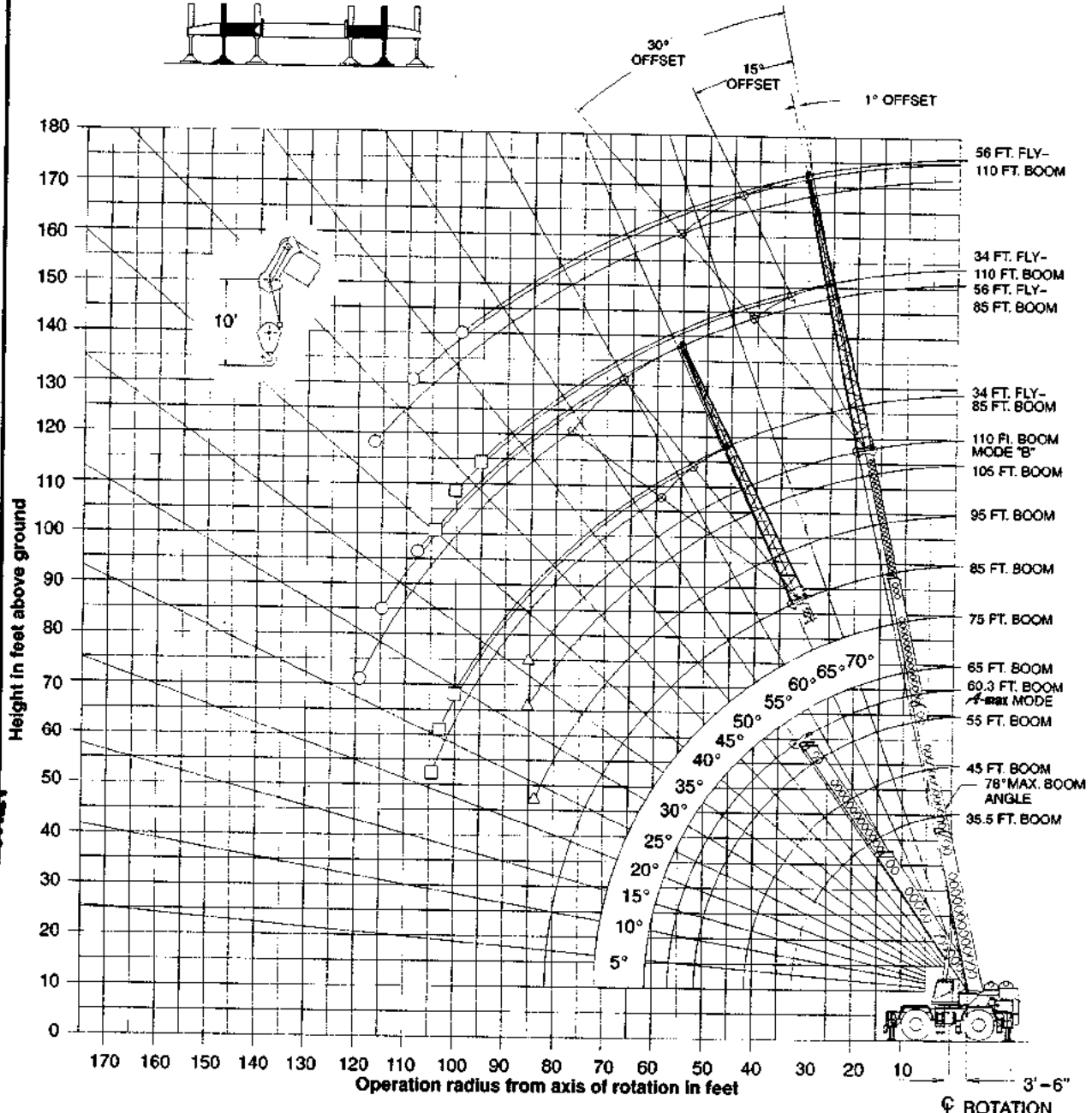
BOOM MODE "B"							
Maximum Allowable Lifting Capacities Rated Lifting Capacities in Pounds On Fully Extended Outriggers See Set Up Note 2.							
110 Ft. Main Boom + 56 Ft. Offset Fly							
Load Radius In Feet	1° Offset		15° Offset		30° Offset		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
40	77.0	7,000					40
45	75.5	7,000					45
50	74.0	7,000					50
55	72.5	7,000	77.5	6,400			55
60	71.0	6,400	75.5	5,900			60
65	69.0	5,900	73.5	5,400	78.0°	5,000	65
70	67.0	5,400	71.5	5,000	76.0	4,800	70
75	65.0	5,000	70.0	4,600	74.0	4,300	75
80	63.0	4,600	68.0	4,300	72.0	4,000	80
85	61.5	4,300	66.0	4,000	70.0	3,800	85
90	59.5	4,000	64.0	3,700	68.0	3,500	90
95	57.0	3,700	61.5	3,500	66.0	3,300	95
100	55.0	3,500	59.5	3,300	63.5	3,100	100
105	53.0	3,300	57.5	3,100	61.5	2,900	105
110	50.5	3,100	55.0	2,900	59.0	2,800	110
115	48.5	2,900	53.0	2,700	56.5	2,600	115
120	46.0	2,600	50.5	2,600	54.0	2,500	120
125	43.0	2,300	47.5	2,400	51.0	2,300	125
130	40.5	1,900	45.0	2,200	48.0	2,100	130
135	37.5	1,600	42.0	1,900	45.0	1,900	135
140			38.5	1,500	41.5	1,700	140
145					37.0	1,400	145

WARNING
Do Not Lower 56 Ft. Offset Fly in Working Position Below 34.5 Degrees Unless Main Boom Length is 99 Ft. Or Less, Since Loss of Stability Will Occur Causing A Tipping Condition.
This capacity based on maximum obtainable boom angle.

NOTE: Refer To Page 5 For "Lifting Capacity Deductions" For Capacity Reductions Caused By Stowed Or Erected Auxiliary Load Handling Equipment.

WORKING RANGE DIAGRAM

**Working Range Diagram
On Intermediate
Extended Outriggers**



GENERAL INFORMATION ONLY

- Denotes Main Boom + 56' Fly-Boom Mode "B"
- Denotes Main Boom + 34' Fly-Boom Mode "B"
- △ Denotes Main Boom-Boom Mode "B"

Note: Boom and fly geometry shown are for unloaded condition and crane standing level on firm supporting surface. Boom deflection, subsequent radius and boom angle change must be accounted for when applying load to hook.

WARNING

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

Intermediate Extended Outriggers - Main Boom Capacities

Maximum Allowable Lifting Capacities Rated Lifting Capacities in Pounds On Intermediate Extended Outriggers See Set Up Note 2.					
35.5 Ft. To 45 Ft. Main Boom					
Load Radius In Feet	35.5 Ft.		45 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
10	68.5	100,000	73.5	87,200	10
12	65.0	100,000	71.0	87,200	12
15	59.5	84,100	66.5	82,500	15
20	49.5	48,700	59.5	47,900	20
25	37.5	32,100	51.5	31,400	25
30	20.0	22,800	42.5	22,300	30
35			32.0	16,500	35
40			15.5	12,500	40
Min. Boom Angle/Cap.	0°	19,800	0°	11,300	Min. Boom Angle/Cap.

Maximum Allowable Lifting Capacities Rated Lifting Capacities in Pounds On Intermediate Extended Outriggers See Set Up Note 2.					
55 Ft. To 60.3 Ft. Main Boom					
Load Radius In Feet	55 Ft.		60.3 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
10	77.0	79,700			10
12	75.0	72,400	76.5	61,400	12
15	71.5	63,500	73.5	57,600	15
20	66.0	47,200	68.5	46,900	20
25	59.5	30,900	63.0	30,700	25
30	53.5	21,900	67.5	21,700	30
35	46.5	16,200	51.5	16,000	35
40	38.5	12,300	44.5	12,100	40
45	29.0	9,300	37.5	9,200	45
50	14.0	7,000	28.5	7,000	50
55			15.0	5,200	55
Min. Boom Angle/Cap.	0°	6,300	0°	4,500	Min. Boom Angle/Cap.

Maximum Allowable Lifting Capacities Rated Lifting Capacities in Pounds On Intermediate Extended Outriggers See Set Up Note 2.							
BOOM MODE "B"							
35.5 Ft. To 55 Ft. Main Boom							
Load Radius In Feet	35.5 Ft.		45 Ft.		55 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
10	68.5	100,000	73.0	42,000	76.5	42,000	10
12	65.0	100,000	70.5	42,000	74.5	42,000	12
15	59.5	84,100	66.5	42,000	71.5	42,000	15
20	49.5	48,700	59.5	42,000	65.5	42,000	20
25	37.5	32,100	51.5	32,300	59.5	33,400	25
30	20.0	22,800	42.5	23,700	53.0	24,200	30
35			32.0	17,800	46.5	18,300	35
40			15.5	13,700	38.5	14,300	40
45					29.0	11,300	45
50					14.0	9,000	50
Min. Boom Angle/Cap.	0°	19,800	0°	12,500	0°	6,200	Min. Boom Angle/Cap.

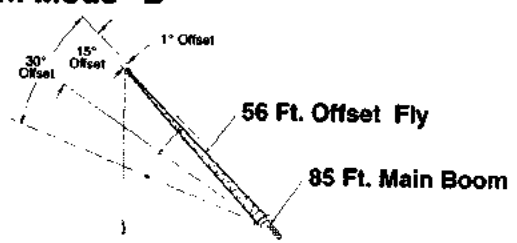
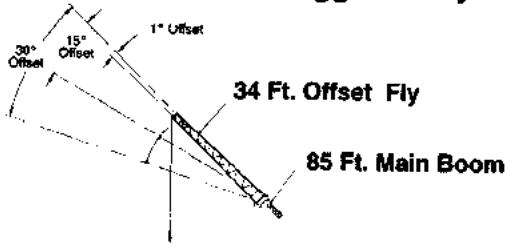
Maximum Allowable Lifting Capacities Rated Lifting Capacities in Pounds On Intermediate Extended Outriggers See Set Up Note 2.							
BOOM MODE "B"							
95 Ft. To 110 Ft. Main Boom							
Load Radius In Feet	95 Ft.		105 Ft.		110 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
20	77.5	31,800					20
25	74.5	28,300	78.0	25,700	77.0	22,500	25
30	71.0	25,000	73.5	23,100	74.5	22,200	30
35	68.0	19,100	70.5	19,200	71.5	19,200	35
40	64.5	15,000	67.5	15,100	68.5	15,100	40
45	60.5	12,100	64.0	12,200	65.5	12,300	45
50	57.0	9,900	61.0	10,000	62.5	10,000	50
55	53.5	8,100	57.5	8,200	59.5	8,200	55
60	49.5	6,600	54.5	6,700	56.5	6,800	60
65	45.0	5,400	50.5	5,500	53.0	5,600	65
70	40.5	4,400	47.0	4,500	49.5	4,500	70
75	35.5	3,600	43.0	3,600	46.0	3,700	75
80	29.5	2,800	38.5	2,900	42.0	2,900	80
85			34.0	2,300	38.0	2,300	85
Min. Boom Angle/Cap.	23.5°		32.5°		36.5°		Min. Boom Angle/Cap.

65 Ft. To 85 Ft. Main Boom							
Load Radius In Feet	65 Ft.		75 Ft.		85 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
12	77.0	42,000					12
15	74.5	42,000	77.0	42,000			15
20	70.0	42,000	73.0	42,000	75.5	36,000	20
25	65.0	33,700	69.0	33,900	72.0	31,500	25
30	60.0	24,500	64.5	24,700	68.5	24,900	30
35	54.5	18,600	60.0	18,800	64.5	19,000	35
40	49.0	14,800	55.5	14,800	60.5	14,900	40
45	42.5	11,700	50.5	11,900	56.5	12,000	45
50	35.5	9,400	45.5	9,900	52.0	9,800	50
55	26.5	7,600	39.5	7,900	47.5	8,000	55
60	13.0	6,000	33.0	6,300	42.5	6,500	60
65			25.0	5,100	37.5	5,300	65
70			12.5	4,100	31.0	4,300	70
75					23.5	3,400	75
80					11.5	2,600	80
Min. Boom Angle/Cap.	0°	5,600	0°	3,700	0°	2,400	Min. Boom Angle/Cap.

NOTE: Refer To Page 5 For "Lifting Capacity Deductions" For Capacity Reductions Caused By Stowed Or Erected Auxiliary Load Handling Equipment.

GENERAL INFORMATION ONLY

Intermediate Extended Outriggers - Fly Capacities - Boom Mode "B"



BOOM MODE "B"							
Maximum Allowable Lifting Capacities Rated Lifting Capacities in Pounds On Intermediate Extended Outriggers See Set Up Note 2.							
85 Ft. Main Boom + 34 Ft. Offset Fly							
Load Radius In Feet	1° Offset		15° Offset		30° Offset		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
25	77.5	18,800					25
30	75.0	17,000					30
35	73.0	15,800	76.5	12,000			35
40	70.5	14,500	74.0	11,400	77.5	9,400	40
45	68.0	13,400	71.5	10,800	75.0	9,100	45
50	65.0	11,200	69.0	10,400	72.5	8,800	50
55	62.0	9,300	66.5	9,900	69.5	8,400	55
60	59.5	7,800	63.5	8,500	67.0	8,100	60
65	56.5	6,600	60.5	7,200	64.0	7,800	65
70	53.0	5,600	57.0	6,100	61.0	6,700	70
75	50.0	4,700	54.0	5,200	57.5	5,700	75
80	46.5	3,900	50.5	4,400	54.0	4,800	80
85	43.0	3,300	47.0	3,700	50.0	4,000	85
90	39.5	2,700	43.0	3,000	46.0	3,300	90
95	35.5	2,200	39.0	2,500	41.5	2,700	95
100	31.0	1,700	34.5	2,000	36.5	2,100	100
105					30.5	1,500	105

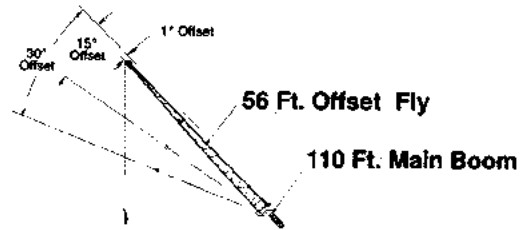
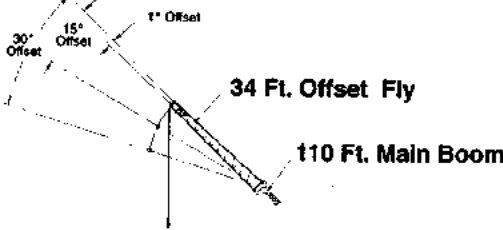
BOOM MODE "B"							
Maximum Allowable Lifting Capacities Rated Lifting Capacities in Pounds On Intermediate Extended Outriggers See Set Up Note 2.							
85 Ft. Main Boom + 56 Ft. Offset Fly							
Load Radius In Feet	1° Offset		15° Offset		30° Offset		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
35	76.5	11,100					35
40	74.5	10,500					40
45	72.5	9,600	77.5	7,100			45
50	70.0	8,600	75.5	6,700			50
55	68.0	8,100	73.0	6,300			55
60	66.0	7,600	71.0	5,900	76.0	4,800	60
65	63.5	7,000	69.0	5,600	74.0	4,600	65
70	61.0	6,200	66.5	5,300	71.5	4,500	70
75	58.5	5,300	64.0	5,100	69.0	4,300	75
80	56.0	4,500	61.5	4,800	66.5	4,100	80
85	53.5	3,900	59.0	4,500	64.0	4,000	85
90	51.0	3,300	56.5	3,900	61.5	3,900	90
95	48.0	2,800	53.5	3,300	58.5	3,800	95
100	45.0	2,300	50.5	2,800	55.5	3,200	100
105	42.0	1,900	47.5	2,300	52.0	2,700	105
110	39.0	1,500	44.0	1,900	48.0	2,200	110
115			40.5	1,500	44.0	1,800	115
120					39.5	1,400	120

WARNING

Do Not Lower 34 Ft. Offset Fly in Working Position Below 29 Degrees Unless Main Boom Length is 73 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.

WARNING

Do Not Lower 56 Ft. Offset Fly in Working Position Below 37.5 Degrees Unless Main Boom Length is 66 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.



BOOM MODE "B"							
Maximum Allowable Lifting Capacities Rated Lifting Capacities in Pounds On Intermediate Extended Outriggers See Set Up Note 2.							
110 Ft. Main Boom + 34 Ft. Offset Fly							
Load Radius In Feet	1° Offset		15° Offset		30° Offset		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
35	76.5	10,500					35
40	74.5	10,500					40
45	72.5	10,500	78.0	9,800			45
50	70.5	9,800	74.0	9,000	77.0	8,300	50
55	68.5	8,900	71.5	8,200	75.0	7,700	55
60	66.0	7,500	69.5	7,600	72.5	7,100	60
65	64.0	6,300	67.5	7,000	70.5	6,600	65
70	61.5	5,300	65.0	5,900	68.0	6,200	70
75	59.0	4,400	62.5	5,000	65.5	5,500	75
80	56.5	3,700	60.0	4,200	63.0	4,600	80
85	54.0	3,000	57.5	3,500	60.0	3,900	85
90	51.5	2,400	54.5	2,900	57.5	3,200	90
95	48.5	1,900	52.0	2,300	54.5	2,600	95
100			49.0	1,800	51.5	2,100	100
105					48.5	1,600	105

WARNING

Do Not Lower 34 Ft. Offset Fly in Working Position Below 46.5 Degrees Unless Main Boom Length is 73 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.

BOOM MODE "B"							
Maximum Allowable Lifting Capacities Rated Lifting Capacities in Pounds On Intermediate Extended Outriggers See Set Up Note 2.							
110 Ft. Main Boom + 56 Ft. Offset Fly							
Load Radius In Feet	1° Offset		15° Offset		30° Offset		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
40	77.0	7,000					40
45	75.5	7,000					45
50	74.0	7,000					50
55	72.5	7,000	77.5	6,400			55
60	71.0	6,400	75.5	5,900			60
65	69.0	5,900	73.5	5,400	78.0	5,000	65
70	67.0	5,400	71.5	5,000	76.0	4,600	70
75	65.0	4,900	70.0	4,600	74.0	4,300	75
80	63.0	4,100	68.0	4,300	72.0	4,000	80
85	61.0	3,400	66.0	4,000	70.0	3,800	85
90	58.5	2,900	63.5	3,600	68.0	3,500	90
95	56.5	2,300	61.5	3,000	66.0	3,300	95
100	54.5	1,900	59.0	2,500	63.5	3,000	100
105			57.0	2,000	61.0	2,500	105
110			54.5	1,900	58.5	2,000	110
115					56.0	1,600	115

WARNING

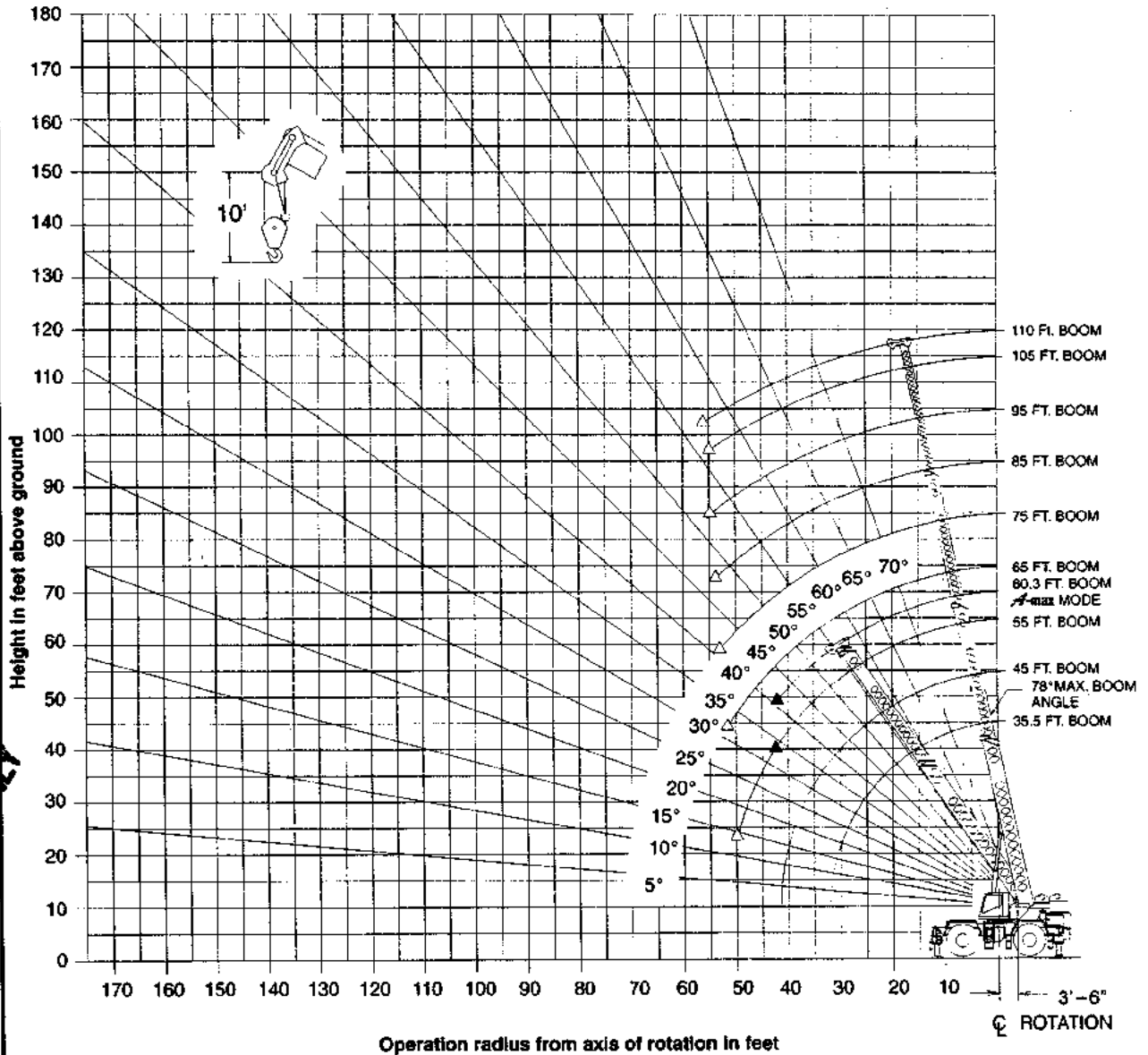
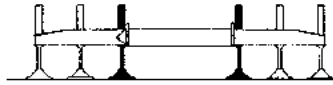
Do Not Lower 56 Ft. Offset Fly in Working Position Below 51.5 Degrees Unless Main Boom Length is 66 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.

* This capacity based on maximum obtainable boom angle.

NOTE: Refer To Page 5 For "Lifting Capacity Deductions" For Capacity Reductions Caused By Stowed Or Erected Auxiliary Load Handling Equipment.

WORKING RANGE DIAGRAM

Working Range Diagram
On Fully Retracted
Outriggers



GENERAL INFORMATION ONLY

- △ Denotes Main Boom—Boom Mode "B"
- ▲ Denotes Main Boom—A-max Mode

Note: Boom and fly geometry shown are for unloaded condition and crane standing level on firm supporting surface. Boom deflection, subsequent radius and boom angle change must be accounted for when applying load to hook.



WARNING

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

Fully Retracted Outriggers - Main Boom Capacities

Maximum Allowable Lifting Capacities
Rated Lifting Capacities in Pounds
On Fully Retracted Outriggers
See Set Up Note 2.

35.5 Ft. To 45 Ft. Main Boom

Load Radius In Feet	35.5 Ft.		45 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
10	68.5	72,900	73.5	71,800	10
12	65.0	51,400	70.5	50,800	12
15	59.5	34,600	66.5	33,900	15
20	49.0	21,000	58.0	20,500	20
25	37.5	14,000	51.5	13,500	25
30	20.0	9,800	42.5	9,300	30
35			32.0	6,500	35
40			15.5	4,300	40
Min. Boom Angle/Cap.	0°	8,100	0°	3,600	Min. Boom Angle/Cap.

Maximum Allowable Lifting Capacities
Rated Lifting Capacities in Pounds
On Fully Retracted Outriggers
See Set Up Note 2.

55 Ft. To 60.3 Ft. Main Boom

Load Radius In Feet	55 Ft.		60.3 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
10	77.0	71,000			10
12	74.5	49,900	76.0	49,500	12
15	71.0	33,300	73.0	33,100	15
20	65.5	20,000	68.0	19,800	20
25	59.5	13,100	62.5	13,000	25
30	53.0	9,000	57.0	8,900	30
35	46.0	6,200	51.0	6,100	35
40	38.5	4,100	44.5	4,000	40
Min. Boom Angle/Cap.	34.0°		41.5°		Min. Boom Angle/Cap.

Maximum Allowable Lifting Capacities
Rated Lifting Capacities in Pounds
On Fully Retracted Outriggers
See Set Up Note 2.

BOOM MODE "B"

35.5 Ft. To 55 Ft. Main Boom

Load Radius In Feet	35.5 Ft.		45 Ft.		55 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
10	68.5	72,900	73.0	42,000	76.5	42,000	10
12	65.0	51,400	70.5	42,000	74.5	42,000	12
15	59.5	34,600	66.5	35,300	71.0	35,700	15
20	49.0	21,000	58.0	21,700	66.5	22,000	20
25	37.5	14,000	51.5	14,800	59.5	15,000	25
30	20.0	9,800	42.5	10,400	53.0	10,800	30
35			31.5	7,500	46.0	7,900	35
40			15.5	5,300	38.5	5,800	40
45					28.5	4,200	45
Min. Boom Angle/Cap.	0°	8,100	0°	4,600	13.5°		Min. Boom Angle/Cap.

Maximum Allowable Lifting Capacities
Rated Lifting Capacities in Pounds
On Fully Retracted Outriggers
See Set Up Note 2.

BOOM MODE "B"

95 Ft. To 110 Ft. Main Boom

Load Radius In Feet	95 Ft.		105 Ft.		110 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
20	77.0	22,800					20
25	73.5	15,600	75.5	15,600	76.5	15,700	25
30	70.5	11,400	72.5	11,500	73.5	11,500	30
35	67.0	8,500	69.5	8,600	70.5	8,600	35
40	63.5	6,400	66.5	6,500	68.0	6,500	40
45	60.0	4,900	63.5	4,900	65.0	5,000	45
50	56.5	3,700	60.5	3,700	62.0	3,700	50
55					59.0	2,800	55
Min. Boom Angle/Cap.	52.5°		56.5°		57.5°		Min. Boom Angle/Cap.

65 Ft. To 85 Ft. Main Boom

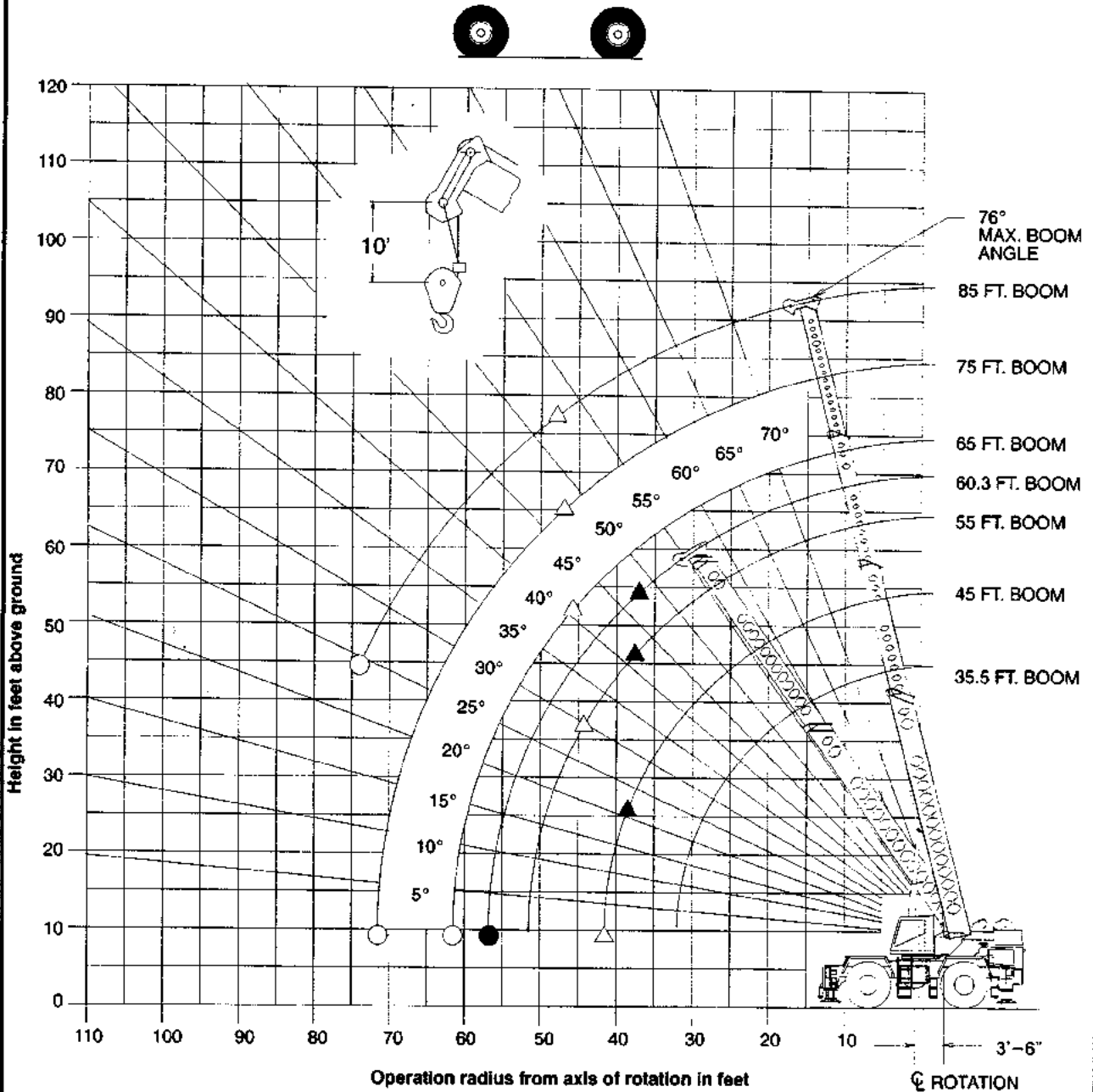
Load Radius In Feet	65 Ft.		75 Ft.		85 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
12	77.0	42,000					12
15	74.5	36,000	76.5	36,100			15
20	69.5	22,300	72.5	22,400	75.0	22,600	20
25	64.5	15,200	68.5	15,400	71.5	15,500	25
30	59.5	11,000	64.0	11,200	67.5	11,300	30
35	54.5	8,100	60.0	8,300	64.0	8,400	35
40	48.5	6,100	55.0	6,200	60.0	6,300	40
45	42.5	4,500	50.5	4,700	56.0	4,800	45
50	35.0	3,300	45.0	3,400	51.5	3,600	50
Min. Boom Angle/Cap.	32.5°		41.5°		48.0°		Min. Boom Angle/Cap.

NOTE: Refer To Page 5 For "Lifting Capacity Deductions" For Capacity Reductions Caused By Stowed Or Erected Auxiliary Load Handling Equipment.

GENERAL INFORMATION ONLY

WORKING RANGE DIAGRAM

Working Range Diagram On Tires



- Denotes Main Boom—Between Tire Tracks Or Centered Over Front — Boom Mode "B"
- Denotes Main Boom—Between Tire Tracks Or Centered Over Front — Δ -max Mode
- △ Denotes Main Boom—Boom—360°—Mode "B"
- ▲ Denotes Main Boom—Boom—360°— Δ -max Mode

Note: Boom geometry shown is for unloaded condition and crane standing level on firm supporting surface. Boom deflection, subsequent radius and boom angle change must be accounted for when applying load to hook.



WARNING

Do Not Lower The Boom Below The Minimum Boom Angle For No Load As Shown In The Above Chart For The Boom Lengths Shown. Loss Of Stability Will Occur Causing A Tipping Condition. Do not exceed 76° boom angle while over side on tires to prevent tipping backwards.

GENERAL INFORMATION ONLY

On Tires (29.5 x 25 - 28 Ply) - Main Boom Capacities

On Tire Capacities In Pounds Tire Pressure: See Page 5. Stationary Capacities - Over Front - Between Tire Tracks See Operation Note 19.					
35.5 Ft. To 45 Ft. Main Boom					
Load Radius In Feet	35.5 Ft.		45 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
10	68.5	72,700			10
12	65.0	64,400			12
15	59.5	54,100	68.5	53,300	15
20	49.5	37,100	59.5	36,400	20
25	37.5	24,900	51.5	24,300	25
30	20.0	17,700	42.5	17,300	30
35			32.0	12,800	35
40			15.5	9,600	40
Min. Boom Angle/Cap.	0°	15,400	0°	8,600	Min. Boom Angle/Cap.

55 Ft. To 60.3 Ft. Main Boom					
Load Radius In Feet	55 Ft.		60.3 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
20	65.5	35,800			20
25	59.5	23,800	62.5	23,600	25
30	53.5	16,900	57.0	16,800	30
35	46.5	12,500	51.0	12,400	35
40	38.5	9,400	44.5	9,300	40
45	29.0	7,000	37.0	7,000	45
50	14.0	5,200	28.0	5,200	50
55			15.0	3,700	55
Min. Boom Angle/Cap.	0°	4,600	0°	3,100	Min. Boom Angle/Cap.

On Tire Capacities In Pounds Tire Pressure: See Page 5. Pick & Carry Capacities - (2.5 MPH) Boom Centered Over Front See Operation Note 19.					
35.5 Ft. To 45 Ft. Main Boom					
Load Radius In Feet	35.5 Ft.		45 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
10	68.5	54,700			10
12	65.0	47,600			12
15	59.5	39,300	66.5	38,700	15
20	49.5	29,800	59.0	29,300	20
25	37.5	23,400	51.5	22,900	25
30	20.0	17,700	42.5	17,300	30
35			32.0	12,800	35
40			15.5	9,600	40
Min. Boom Angle/Cap.	0°	15,400	0°	8,600	Min. Boom Angle/Cap.

55 Ft. To 60.3 Ft. Main Boom					
Load Radius In Feet	55 Ft.		60.3 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
20	65.5	28,900			20
25	59.5	22,600	62.5	22,400	25
30	53.5	16,900	57.0	16,800	30
35	46.5	12,500	51.0	12,400	35
40	38.5	9,400	44.5	9,300	40
45	29.0	7,000	37.0	7,000	45
50	14.0	5,200	28.0	5,200	50
55			15.0	3,700	55
Min. Boom Angle/Cap.	0°	4,600	0°	3,100	Min. Boom Angle/Cap.

NOTE: Refer To Page 5 For "Lifting Capacity Deductions" For Capacity Reductions Caused By Stowed Or Erected Auxiliary Load Handling Equipment.

On Tire Capacities In Pounds Tire Pressure: See Page 5. Stationary Capacities - Over Front - Between Tire Tracks See Operation Note 19.							
BOOM NODE "B" 35.5 Ft. To 55 Ft. Main Boom							
Load Radius In Feet	35.5 Ft.		45 Ft.		55 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
10	68.5	72,700					10
12	65.0	64,400					12
15	59.5	54,100	66.5	42,000			15
20	49.5	37,100	59.0	37,800	65.5	38,200	20
25	37.5	24,900	51.5	25,500	59.5	25,900	25
30	20.0	17,700	42.5	18,500	53.0	18,900	30
35			32.0	13,900	46.0	14,300	35
40			15.5	10,600	38.5	11,200	40
45					28.5	8,800	45
50					14.0	6,900	50
Min. Boom Angle/Cap.	0°	15,400	0°	9,700	0°	6,300	Min. Boom Angle/Cap.

55 Ft. To 65 Ft. Main Boom							
Load Radius In Feet	65 Ft.		75 Ft.		85 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
25	65.0	26,100					25
30	59.5	19,100	64.5	19,300			30
35	54.5	14,600	60.0	14,700	64.0	14,900	35
40	48.5	11,400	55.5	11,600	60.5	11,700	40
45	42.5	9,100	50.5	9,200	56.0	9,400	45
50	35.5	7,200	45.5	7,400	52.0	7,600	50
55	26.5	5,800	39.5	6,000	47.5	6,100	55
60	13.0	4,500	33.0	4,800	42.5	4,900	60
65			25.0	3,800	37.0	4,000	65
70			12.0	2,900	31.0	3,100	70
Min. Boom Angle/Cap.	0°	4,100	0°	2,700	25.5°		Min. Boom Angle/Cap.

On Tire Capacities In Pounds Tire Pressure: See Page 5. Pick & Carry Capacities - (2.5 MPH) Boom Centered Over Front See Operation Note 19.							
BOOM NODE "B" 35.5 Ft. To 55 Ft. Main Boom							
Load Radius In Feet	35.5 Ft.		45 Ft.		55 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
10	68.5	54,700					10
12	65.0	47,600					12
15	59.5	39,300	66.5	39,300			15
20	49.5	29,800	59.0	29,800	65.5	29,800	20
25	37.5	23,400	51.5	23,400	59.5	23,400	25
30	20.0	17,700	42.5	18,500	53.0	18,900	30
35			32.0	13,900	46.0	14,300	35
40			15.5	10,600	38.5	11,200	40
45					28.5	8,800	45
50					14.0	6,900	50
Min. Boom Angle/Cap.	0°	15,400	0°	9,700	0°	6,300	Min. Boom Angle/Cap.

65 Ft. To 85 Ft. Main Boom							
Load Radius In Feet	65 Ft.		75 Ft.		85 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
25	65.0	23,400					25
30	59.5	19,100	64.5	19,300			30
35	54.5	14,600	60.0	14,700	64.0	14,900	35
40	48.5	11,400	55.5	11,600	60.5	11,700	40
45	42.5	9,100	50.5	9,200	56.0	9,400	45
50	35.5	7,200	45.5	7,400	52.0	7,600	50
55	26.5	5,800	39.5	6,000	47.5	6,100	55
60	13.0	4,500	33.0	4,800	42.5	4,900	60
65			25.0	3,800	37.0	4,000	65
70			12.0	2,900	31.0	3,100	70
Min. Boom Angle/Cap.	0°	4,100	0°	2,700	25.5°		Min. Boom Angle/Cap.

On Tires (29.5 x 25 - 28 Ply) - Main Boom Capacities

On Tire Capacities in Pounds Tire Pressure: See Page 5. Stationary Capacities - 360 Degree See Operation Note 19.					
35.5 Ft. To 45 Ft. Main Boom					
Load Radius In Feet	35.5 Ft.		45 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
10	68.5	53,000			10
12	65.0	39,000			12
15	59.5	26,800	68.5	26,100	15
20	49.0	16,400	59.0	15,800	20
25	37.5	10,700	51.5	10,300	25
30	20.0	7,100	42.5	6,800	30
35			31.5	4,400	35
Min. Boom Angle/Cap.	0°	5,800	22.5°		Min. Boom Angle/Cap.

55 Ft. To 60.3 Ft. Main Boom					
Load Radius In Feet	55 Ft.		60.3 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
15					15
20	65.5	15,400			20
25	59.5	9,900	62.5	9,800	25
30	53.0	6,500	57.0	6,400	30
35	46.0	4,200	51.0	4,100	35
Min. Boom Angle/Cap.	42.5°		49.0°		Min. Boom Angle/Cap.

On Tire Capacities in Pounds Tire Pressure: See Page 5. Stationary Capacities - 360 Degree See Operation Note 19.							
BOOM MODE "B"							
35.5 Ft. To 55 Ft. Main Boom							
Load Radius In Feet	35.5 Ft.		45 Ft.		55 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
10	68.5	53,000					10
12	65.0	39,000					12
15	59.5	26,800	66.5	27,400			15
20	49.0	16,400	59.0	16,900	65.5	17,300	20
25	37.5	10,700	51.5	11,400	59.5	11,700	25
30	20.0	7,100	42.5	7,900	53.0	8,200	30
35			31.5	5,400	46.0	5,800	35
40			15.5	3,800	38.0	4,100	40
Min. Boom Angle/Cap.	0°	5,800	0°	3,000	30.5°		Min. Boom Angle/Cap.

65 Ft. To 65 Ft. Main Boom							
Load Radius In Feet	65 Ft.		75 Ft.		85 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
20							20
25	64.5	12,000					25
30	59.5	8,500	64.0	8,600			30
35	54.0	6,100	59.5	6,200	64.0	6,300	35
40	48.5	4,300	55.0	4,500	60.0	4,600	40
45	42.5	3,000	50.5	3,200	56.0	3,300	45
Min. Boom Angle/Cap.	41.5°		49.5°		53.5°		Min. Boom Angle/Cap.

NOTE: Refer To Page 5 For "Lifting Capacity Deductions" For Capacity Reductions Caused By Stowed Or Erected Auxiliary Load Handling Equipment.

GENERAL INFORMATION ONLY

On Tires (29.5R25 - XHA) - Main Boom Capacities

On Tire Capacities In Pounds Tire Pressure: See Page 5. Stationary Capacities - Over Front - Between Tire Tracks See Operation Note 19.					
35.5 Ft. To 45 Ft. Main Boom					
Load Radius In Feet	35.5 Ft.		45 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
10	66.5	78,800			10
12	65.0	69,900			12
15	59.5	57,200	66.5	56,400	15
20	49.5	37,400	59.5	36,700	20
25	37.5	25,000	51.5	24,500	25
30	20.0	17,800	42.5	17,500	30
35			32.0	12,900	35
40			15.5	9,700	40
Min. Boom Angle/Cap.	0°	15,500	0°	6,700	Min. Boom Angle/Cap.

On Tire Capacities In Pounds Tire Pressure: See Page 5. Stationary Capacities - Over Front - Between Tire Tracks See Operation Note 19.							
BOOM MODE "B"							
35.5 Ft. To 55 Ft. Main Boom							
Load Radius In Feet	35.5 Ft.		45 Ft.		55 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
10	66.5	78,800					10
12	65.0	69,900					12
15	59.5	57,200	66.5	42,000			15
20	49.5	37,400	59.0	36,700	65.5	38,500	20
25	37.5	25,000	51.5	25,700	59.5	26,100	25
30	20.0	17,800	42.5	18,600	53.0	19,100	30
35			32.0	14,000	46.0	14,500	35
40			15.5	10,700	38.5	11,300	40
45					28.5	8,900	45
50					14.0	7,000	50
Min. Boom Angle/Cap.	0°	15,500	0°	9,800	0°	8,400	Min. Boom Angle/Cap.

55 Ft. To 60.3 Ft. Main Boom					
Load Radius In Feet	55 Ft.		60.3 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
20	66.5	36,200			20
25	59.5	24,100	62.5	23,900	25
30	53.5	17,100	57.0	17,000	30
35	46.5	12,700	51.0	12,500	35
40	38.5	9,500	44.5	9,400	40
45	29.0	7,200	37.0	7,100	45
50	14.0	5,300	28.0	5,300	50
55			15.0	3,800	55
Min. Boom Angle/Cap.	0°	4,700	0°	3,200	Min. Boom Angle/Cap.

65 Ft. To 85 Ft. Main Boom							
Load Radius In Feet	65 Ft.		75 Ft.		85 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
25	65.0	26,400					25
30	60.0	19,300	64.5	19,500			30
35	54.5	14,700	60.0	14,900	64.0	15,000	35
40	48.5	11,600	55.5	11,700	60.5	11,900	40
45	42.5	9,200	50.5	9,400	56.0	9,500	45
50	35.5	7,300	45.5	7,500	52.0	7,700	50
55	26.5	5,900	38.5	6,100	47.5	6,200	55
60	13.0	4,600	33.0	4,900	42.5	5,000	60
65			25.0	3,900	37.0	4,000	65
70			12.0	3,000	31.0	3,200	70
Min. Boom Angle/Cap.	0°	4,200	0°	2,700	24.5°		Min. Boom Angle/Cap.

On Tire Capacities In Pounds Tire Pressure: See Page 5. Pick & Carry Capacities - (2.5 MPH) Boom Centered Over Front See Operation Note 19.					
35.5 Ft. To 45 Ft. Main Boom					
Load Radius In Feet	35.5 Ft.		45 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
10	66.5	63,500			10
12	65.0	55,400			12
15	59.5	46,100	66.5	45,500	15
20	49.5	35,300	59.5	34,700	20
25	37.5	25,000	51.5	24,500	25
30	20.0	17,800	42.5	17,500	30
35			32.0	12,900	35
40			15.5	9,700	40
Min. Boom Angle/Cap.	0°	15,500	0°	6,700	Min. Boom Angle/Cap.

On Tire Capacities In Pounds Tire Pressure: See Page 5. Pick & Carry Capacities - (2.5 MPH) Boom Centered Over Front See Operation Note 19.							
BOOM MODE "B"							
35.5 Ft. To 55 Ft. Main Boom							
Load Radius In Feet	35.5 Ft.		45 Ft.		55 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
10	66.5	63,500					10
12	65.0	55,400					12
15	59.5	46,100	66.5	42,000			15
20	49.5	35,300	59.0	35,300	65.5	35,300	20
25	37.5	25,000	51.5	25,700	59.5	26,100	25
30	20.0	17,800	42.5	18,600	53.0	19,100	30
35			32.0	14,000	46.0	14,500	35
40			15.5	10,700	38.5	11,300	40
45					28.5	8,900	45
50					14.0	7,000	50
Min. Boom Angle/Cap.	0°	15,500	0°	9,800	0°	6,400	Min. Boom Angle/Cap.

55 Ft. To 60.3 Ft. Main Boom					
Load Radius In Feet	55 Ft.		60.3 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
20	66.5	34,300			20
25	59.5	24,100	62.5	23,900	25
30	53.5	17,100	57.0	17,000	30
35	46.5	12,700	51.0	12,500	35
40	38.5	9,500	44.5	9,400	40
45	29.0	7,200	37.0	7,100	45
50	14.0	5,300	28.0	5,300	50
55			15.0	3,800	55
Min. Boom Angle/Cap.	0°	4,700	0°	3,200	Min. Boom Angle/Cap.

65 Ft. To 85 Ft. Main Boom							
Load Radius In Feet	65 Ft.		75 Ft.		85 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
25	65.0	26,400					25
30	60.0	19,300	64.5	19,500			30
35	54.5	14,700	60.0	14,900	64.0	15,000	35
40	48.5	11,600	55.5	11,700	60.5	11,900	40
45	42.5	9,200	50.5	9,400	56.0	9,500	45
50	35.5	7,300	45.5	7,500	52.0	7,700	50
55	26.5	5,900	38.5	6,100	47.5	6,200	55
60	13.0	4,600	33.0	4,900	42.5	5,000	60
65			25.0	3,900	37.0	4,000	65
70			12.0	3,000	31.0	3,200	70
Min. Boom Angle/Cap.	0°	4,200	0°	2,700	24.5°		Min. Boom Angle/Cap.

NOTE: Refer To Page 5 For "Lifting Capacity Deductions" For Capacity Reductions Caused By Stowed Or Erected Auxiliary Load Handling Equipment.

GENERAL INFORMATION ONLY

On Tires (29.5R25 - XHA) - Main Boom Capacities

On Tire Capacities in Pounds Tire Pressure: See Page 5. Stationary Capacities - 360 Degree See Operation Note 19.					
35.5 Ft. To 45 Ft. Main Boom					
Load Radius In Feet	35.5 Ft.		45 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
10	68.5	53,900			10
12	65.0	39,300			12
15	59.5	27,000	66.5	26,300	15
20	49.0	16,500	59.0	15,900	20
25	37.5	10,900	51.5	10,400	25
30	20.0	7,200	42.5	6,900	30
35			31.5	4,500	35
Min. Boom Angle/Cap.	0°	5,900	21.5°		Min. Boom Angle/Cap.

55 Ft. To 60.3 Ft. Main Boom					
Load Radius In Feet	55 Ft.		60.3 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
20	65.5	15,500			20
25	59.5	10,100	62.5	9,900	25
30	53.0	6,600	57.0	6,500	30
35	46.0	4,300	51.0	4,100	35
Min. Boom Angle/Cap.	42.0°		48.0°		Min. Boom Angle/Cap.

On Tire Capacities in Pounds Tire Pressure: See Page 5. Stationary Capacities - 360 Degree See Operation Note 19.							
BOOM MODE "B"							
35.5 Ft. To 55 Ft. Main Boom							
Load Radius In Feet	35.5 Ft.		45 Ft.		55 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
10	68.5	53,900					10
12	65.0	39,300					12
15	59.5	27,000	66.5	27,000			15
20	49.0	16,500	59.0	17,100	65.5	17,400	20
25	37.5	10,900	51.5	11,500	59.5	11,900	25
30	20.0	7,200	42.5	7,900	53.0	8,300	30
35			31.5	5,500	46.0	5,900	35
40			15.5	3,700	38.0	4,100	40
Min. Boom Angle/Cap.	0°	5,900	0°	3,100	30.0°		Min. Boom Angle/Cap.

65 Ft. To 85 Ft. Main Boom							
Load Radius In Feet	65 Ft.		75 Ft.		85 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
25	64.5	12,100					25
30	59.5	8,600	64.0	8,700			30
35	54.0	8,200	59.5	6,300	64.0	6,400	35
40	48.5	4,400	55.0	4,600	60.0	4,700	40
45	42.5	3,100	50.5	3,200	58.0	3,400	45
Min. Boom Angle/Cap.	41.0°		48.0°		53.0°		Min. Boom Angle/Cap.

NOTE: Refer To Page 5 For "Lifting Capacity Deductions" For Capacity Reductions Caused By Stowed Or Erected Auxiliary Load Handling Equipment.

GENERAL INFORMATION ONLY