

RTC-8018 18-ton (16t)

RTC-8020 20-ton (18t)

RTC-8022 22-ton (20t)

Hydraulic Rough Terrain Cranes

- 121' (36.88 m) on-board tip height
- Confined Area Lifting Capacities (CALC™) System
- Piston winches
- Rated load indicator
- Three attachment options

THE RTC MODELS FEATURE THE NEW
CONFINED AREA LIFTING CAPACITIES (CALC™) SYSTEM



The new RTC-8018/20/22....

Featuring unmatched innovations such as the Confined Area Lifting Capacities (CALC™) System, piston motor winches 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 with height-adjustable armrests.

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

Hydraulic Control Levers – Armrest mounted dual hydraulic controllers.

Electronic Drum Rotation Indicators

Single Foot Pedal Control – For simultaneous extension or retraction of power boom sections.

Foot Controls – For swing brake, travel brake and engine throttle.

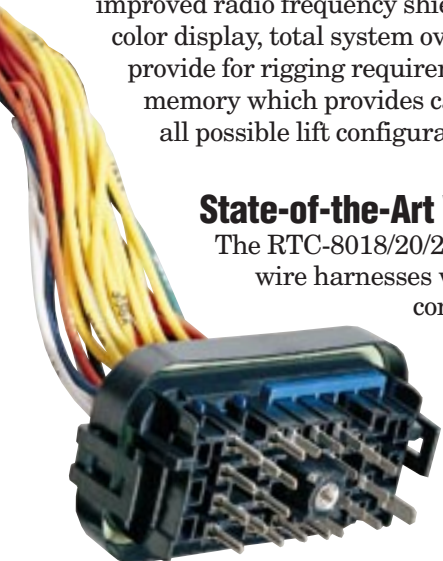
Additional Cab Features Include:

- Sound suppressed environmental cab.
- Large front window 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, and percent of allowed load. The Microguard 414 system features improved access time, improved radio frequency shielding, a new built-in color display, total system override capabilities to provide for rigging requirements and expanded memory which provides capacity information on all possible lift configurations.



State-of-the-Art Wire Harness

The RTC-8018/20/22 have 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

switches for wiper, fan, lights, function lockout, 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 and transmission temperature. And a standard sight level bubble aids in machine setup.



Outstanding controllability, comfort

The RTC-8018 18-ton (16t) capacity, RTC-8020 20-ton (18t) capacity and the RTC-8022 22-ton (20t) capacity with 121' (36.88 m) of on-board tip height are specifically designed to give you the best equipment value in the 20-ton (18t) RT class.



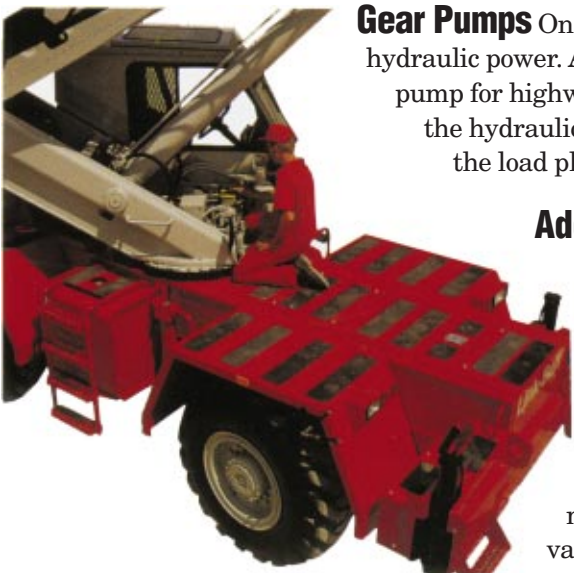
Jobsite Maneuverability Maneuvering the RTC Series machines on the job site is made easier with independent controls for steering. Steering modes include independent front and rear steer, four wheel coordinated steer and “crab” steering for tight job site situations. And, the direction of steering remains the same whether the upper is over the front or rear making it easier for the operator to move the machine without having to relearn his steering habits.



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.

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 105 horsepower (78 kW) engine is coupled to a Clark 6-speed forward, 6-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 double gear and one single gear type pump provide hydraulic power. A pump disconnect is available on the double gear pump for highway travel and cold weather starting. Disconnecting the hydraulic pump saves wear on the hydraulic system and reduces the load placed on the engine when travelling long distances.

Added Value Features Large grab handles and steps strategically located around the new RTC Series provide superior accessibility to carrier deck areas and engine for routine maintenance and service. Safety strips adhered on top of the deck and fenders provide a non-slip surface for maintenance personnel. A standard oversize storage compartment with key locking hatch is ideal for tools, slings, etc. And a recessed carrier mounted, cab controlled tow winch is available to provide a variety of job site options to the operator.



port, and big machine performance

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 20-ton (18t) class.

Simplified Routings All Link-Belt hydraulic cranes incorporate well thought out 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 allows the hydraulic pressure

to be quickly and easily checked with Link-Belt's exclusive diagnostic gauge kit.



Diagnostic Kit

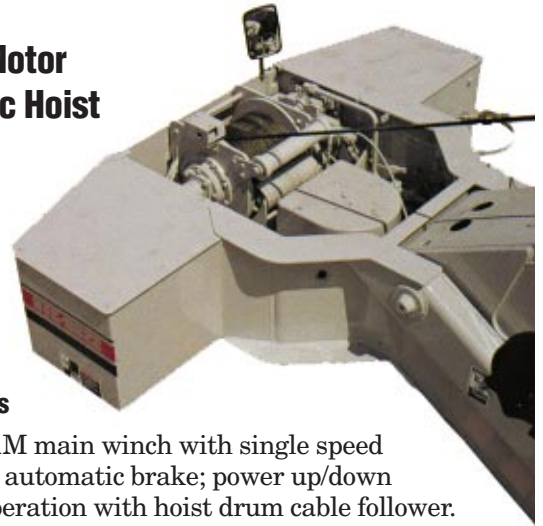
Piston Motor Hydraulic Hoist System

Delivers superior hoisting to the 20-ton (18t) rough terrain class

Model 1M main winch with single speed motor and automatic brake; power up/down mode of operation with hoist drum cable follower. Bi-directional piston-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 9,000 lbs. (4 082 kg) and maximum line speeds of 282 f.p.m. (84.60 m/min.) on 10-5/8" (270 mm) root diameter drums. An independent winch

function lockout is provided. When this mode is selected, the operator won't inadvertently operate a winch which has been shut down preventing a rope "bird caging" situation.



Industry first innovations...

Confined Area Lifting Capacities (CALC™) System



The new RTC-8018/8020/8022 rough terrain cranes are 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.



The outrigger **extend position pins** are easily applied through the top of the outrigger boxes. Once the pins are inserted, 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 18' 6-3/4" (5.66 m) base centerline to centerline. Centerline to centerline base dimension for intermediate outriggers measures 12' 11-3/4" (3.96 m) and 7' 4-3/4" (2.25 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.



Fully Extended Outriggers – 18' 6-3/4" (5.66 m) spread



Intermediate Extended Outriggers – 12' 11-3/4" (3.96 m) spread



Fully Retracted Outriggers – 7' 4-3/4" (2.25 m) spread

Patented boom design

EXCLUSIVE

Patented Design
THE BOSS
THE ORIGINAL EMBOSSED BOOM STIFFENER

Embossed Sidewall Stiffeners Increases sidewall stiffness.

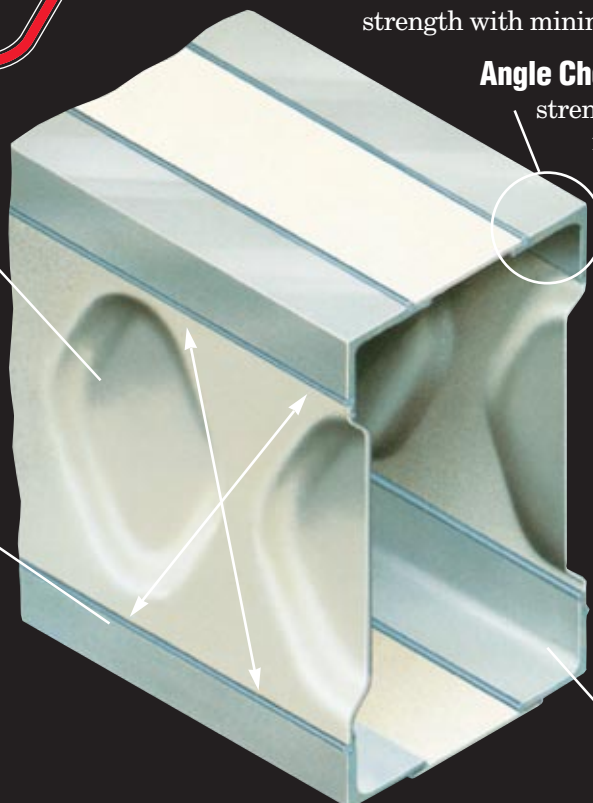
Sidewall Design Concept Not only do the embossments increase sidewall stiffness, but because of their placement they naturally transfer stresses uniformly to the high strength angle chords (corners) — a concept derived from Link-Belt lattice boom technology.

Boom Wear Shoes

Boom wear shoes are replaceable without boom disassembly.

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.



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



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

Attachment Flexibility

Maximum Tip Height:

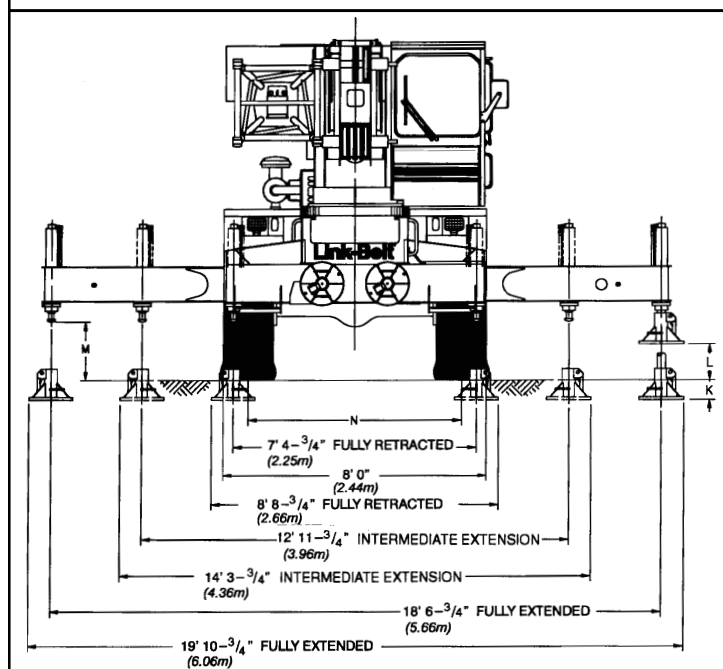
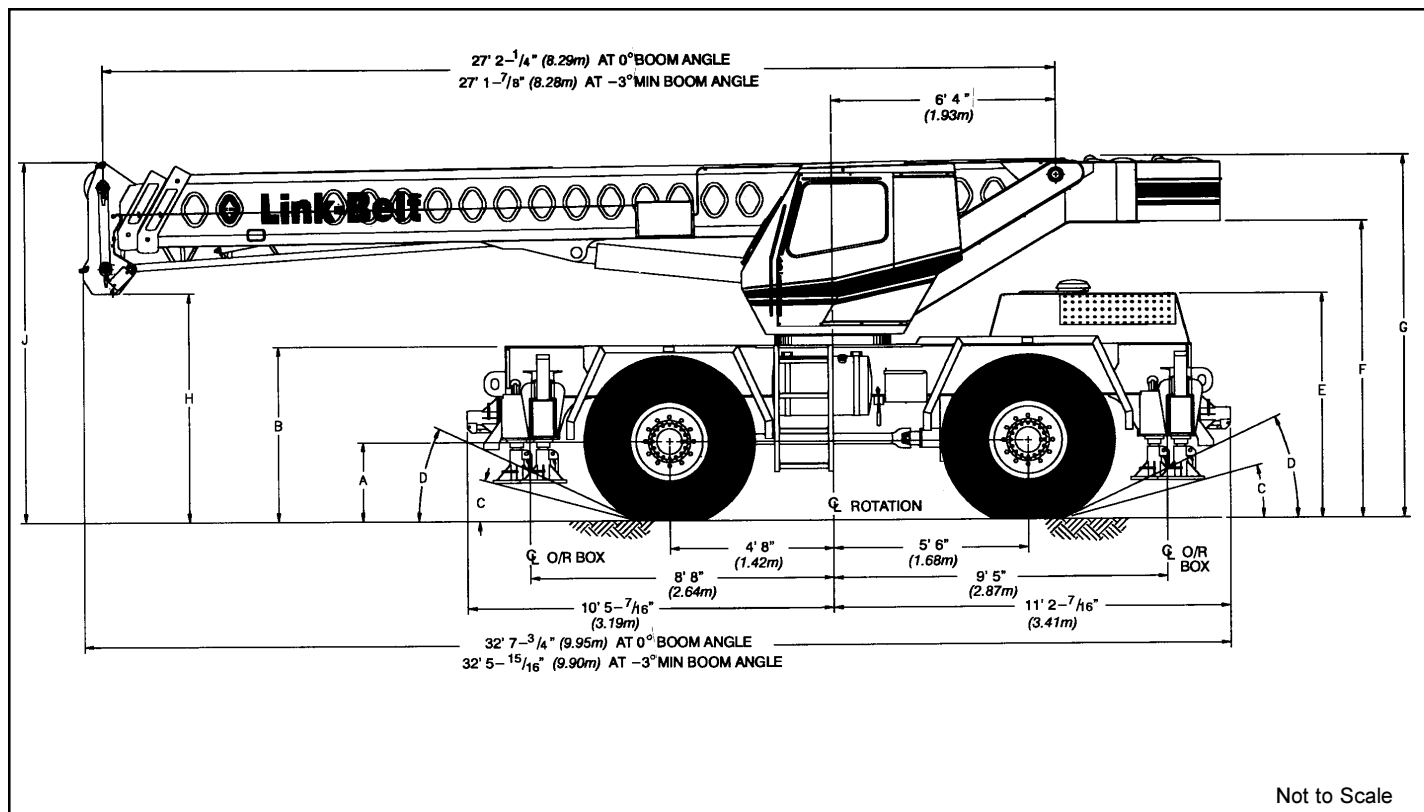
- Stowable, 25' (7.62 m) fixed, one piece lattice type fly.
- Stowable, 25' (7.62 m) offsettable (2°, 15°, or 30° offset), one piece lattice type fly.
- Stowable, 25' – 43' (7.62 m – 13.10 m) offsettable (2°, 15°, or 30° offset) lattice type fly with telescoping box section.

Specifications

Hydraulic Rough Terrain Crane

RTC-8018

18-ton (16.34 metric ton)



General dimensions	feet	meters
Turning radius (4-wheel steer - centerline of tires)	17' 9"	5.41
Tailswing of counterweight	11' 1"	3.38

Dimensions affected by tires

Tires	16.0 X 24 (16-PR)		17.5 X 25 (20-PR)	
	feet	meters	feet	meters
A	2' 3-3/8"	.70	2' 1-3/16"	.64
B	5' 1/4"	1.53	4' 10-1/16"	1.47
C	15°	—	12°	—
D	25°	—	22°	—
E	6' 5-1/4"	1.96	6' 3-1/16"	1.91
F	8' 5-3/4"	2.58	8' 3-5/16"	2.53
G	10' 4-1/4"	3.16	10' 2-1/16"	3.10
H	6' 11-1/16"	2.11	6' 8-7/8"	2.05
J	10' 8-3/16"	3.26	10' 6"	3.20
K	7-1/8"	.18	9-5/16"	.24
L	1' 1-3/4"	.35	11-9/16"	.29
M	1' 9-1/2"	.55	1' 7-1/8"	.49
N	6' 5-7/8"	1.98	6' 5-1/8"	1.96

Upperstructure

■ Boom

Patented Design. Base and center section 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. The tip section is a formed fabricated box section. Boom telescope sections are supported by wear shoes both vertically and horizontally to prevent metal to metal contact.

Microguard 414, Rated Capacity Limiter "RCL" - Standard; Audio-visual warning system 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.

Standard boom — 27.12' - 70.12' (8.27 m - 21.37 m) three-section full power, fully synchronized boom.

Boom head — Standard — Three 10-5/8" (0.27 m) root diameter head sheaves handle up to 6 parts of wire rope. Two easily removable wire rope guards and rope dead end lugs provided on each side of boom head.

Auxiliary lifting sheave — Optional; Single 10-5/8" (0.27 m) root diameter sheave with removable wire rope guard, mounted to boom. For use with one or two parts of line off the optional auxiliary winch. Does not affect erection of fly, or use of main head sheaves for multiple reeving.

Boom elevation — One Link-Belt designed hydraulic cylinder with holding valve and bronze bushings in each end. Hand control for controlling boom elevation from -3° to + 78°.

■ Fly

Optional — 25' (7.62 m) fixed stowable one piece lattice type.

Optional — 25' (7.62 m) offsettable stowable one-piece lattice type.

Optional — 25' - 43' (7.62 m - 13.10 m) offsettable stowable type lattice with telescoping box section.

■ Cab and Controls

Environmental cab; isolated from sound with acoustical foam insulation, all tinted and tempered safety glass windows. Sliding rear and right side window and swing up roof window for maximum visibility and ventilation. Slide-by-door opens to 2' 4" (0.71 m) width. 6-way adjustable operator's seat. Hydraulic control levers (joystick style) for swing, winches and boom hoist. Outtrigger controls conveniently located on dash; sight level bubble also provided in upper cab. Foot controls for boom telescope, swing brake, travel brake and engine throttle.

Cab instrumentation — Cab instrumentation — Dash mounted gauges for hydraulic oil temperature, converter temperature, fuel, water temperature, voltmeter and oil pressure.

■ Swing

Bi-directional hydraulic swing motor mounted to a planetary reducer for 360° continuous smooth swing at 2.0 r.p.m.

Swing parking brake — Foot operated manually applied/released, disc brake mounted on the speed reducer.

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. Optional 360° swing lock.

Counterweight — Bolted to upperstructure frame.

■ Hydraulic System

Main pump — Double gear type pump. Combined pump capacity 58 gpm (220 lpm). Driven off rear of transmission. An optional pump disconnect with engine jogging is available. Pump operates at 3,500 p.s.i. (246 kg/cm²) maximum system pressure.

Swing / steering pump — Single gear-type pump, 17 gpm (64 lpm) maximum. Powered by carrier engine through a straight mechanical drive. Pump operates at 3,000 p.s.i. (211 kg/cm²).

The three pump hydraulic circuit allows simultaneous operation of the three main crane functions (winch, boom hoist, swing) without any function interface.

Reservoir — 63 gallon (238.46 L) capacity. Single diffuser for deaeration.

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

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

■ Load Hoist System

Standard — 1M main winch with single speed motor and automatic brake; power up/down mode of operation with hoist drum cable follower. Bi-directional piston-type hydraulic motor, driven through a double planetary reduction unit for positive operator control under all load conditions.

Optional — Model 1M auxiliary winch with one-speed motor and automatic brake, power up/power down mode of operation with hoist drum cable follower.

Optional - Winch function lockout on machines equipped with two drums.

Line pulls and speeds — Maximum line pull 9,000 lbs. (4,082 kg) and maximum line speed of 282 f.p.m. (84.60 m/min) on standard 10-5/8" (0.27 m) root diameter smooth drum.

■ Additional Equipment - Standard

Sound suppressed cab, fire extinguisher, seat belt, warning horn, mirrors, windshield wiper and backup alarm, lifting lugs, audible swing alarm, and automotive style wiring with sealed relays and connectors.

■ Additional Upperstructure Equipment - Optional

360° swing lock, propane, diesel or hydraulic heater, electronic drum rotation indicators, 25-ton (22.68 metric ton) hook block, 5-ton (4.54 metric ton) hook ball and swivel, rear steer indicator, engine monitoring system, tachometer, top hatch window wiper, amber rotating beacon, windshield washer, 360° cab mounted spotlight, cab-mounted working lights, and boom flood light.

Carrier

■ Type

8' 0" (2.44 m) wide, 122" (3.10 m) wheelbase.

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

4 x 4 x 4 — (4-wheel steer, 4-wheel drive)
Optional — Rear axle with no-spin differential; 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- Standard; heavy duty planetary drive/steer type.

Rear- Standard; heavy duty planetary drive/steer type.

Rear- *Optional*; heavy duty no-spin differential, planetary drive/steer type.

■ Suspension

Front axle- Rigid mounted to frame.

Rear axle- Pin-mounted on welded steel box cradle. Automatic hydraulic rear axle oscillation lock-out engages when upperstructure rotates past 2-1/2° of centerline.

■ Tires

Front and Rear
Standard — 16.00 x 24 (16-PR)

Optional — 17.5 x 25 (20-PR)

■ Brakes

Service — Hydraulic, drum-type brakes at each wheel end. Drum diameter 17" (0.43 m). Shoe width 4" (.10 m).

Parking — Spring applied, hydraulic released; cab controlled, mounted on front axle.

■ Steering

Hydraulic two wheel, four wheel and "crab" steering; controlled from steering wheel.

■ Transmission

Clark three-speed two range power shift transmission. Six speeds available forward and six speeds reverse. Engine mounted torque converter.

■ Outriggers

Three position (fully extended, intermediate and fully retracted) operation. Four hydraulic, telescoping beam and jack outriggers. Vertical jack cylinders equipped with integral holding valve. Beams extend to a maximum 18' 6-3/4" (5.66 m) centerline-to-centerline and retract to within 8' 0" (2.44 m) overall width. Equipped with stowable, light-weight 16" (0.41 m) diameter steel floats. Controls and sight level bubble located in upperstructure cab.

Confined Area Lift Capacities (CALC)

System - Outriggers may be extended to an intermediate position (12' 11-3/4" - 3.96 m) for working in confined areas. Outrigger box and beam are connected by an extend position pin which allows the outrigger beams to be fully extended or limits them to partially extended length based on the selected pin position. In addition, capacities are available with the beams in the 7' 4-3/4" (2.25 m) fully retracted position.

■ Additional Equipment - Standard

Cab steps, 2 front and rear carrier steps, air cleaner service indicator, skid resistant finish on carrier deck, key locking storage, battery box and engine compartment, automatic front axle disconnect, fenders, carrier mounted travel lights, automotive type wiring with sealed relays and connectors, throttle lock, hour meter, and towing lugs.

■ Additional Equipment - Optional

No-spin differential on rear axle, front and rear towing shackles, 110 volt engine block heater, ether injection package, dual battery system, spare tires and rims, rear mounted pintle hook, manual pump disconnect with engine jogging switch, auxiliary steering system, and recessed carrier mounted winch.

Travel speeds and gradeability

Engine	Tires	Maximum Speed		*Gradeability at stall	Maximum tractive effort at stall		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 4BT 3.9	16.0 X 24	24.3	39.10	141%	33,462	15,178	49%	18,410	8,351
	17.5 X 25	22.5	36.20	211%	36,954	16,762	56%	20,331	9,222

*Transmission lubrication must not exceed 47% grade.

Engine Specifications

Engine	Cummins 4BT 3.9
Cylinders - cycle	4 - 4
Bore	4.02" (102.1 mm)
Stroke	4.72" (119.9 mm)
Displacement	239.2 cu. in. (3 920 cm ³)
Maximum brake hp	110 @ 2500 rpm
Peak torque	293 ft. lbs. (397 J)
Electric system	12 volt negative ground
Fuel capacity	40 gallons (151.4 L)
Alternator	100 amps
Crankcase capacity	11.6 qts. (10.98 L)

Axle loads

Base machine with standard 27.12' — 70.12' (8.27 m - 21.37 m) three-section boom, 350' (106.68 m) 5/8" (16 mm) wire rope, 4 x 4 x 4 carrier with Cummins 4BT 3.9 engine, 16.0 X 24.0 tires, full fuel and counterweight.	G.V.W. ①		Upperfacing front				Upperfacing rear			
			Front axle		Rear axle		Front axle		Rear axle	
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg
	37,328	16 932	18,018	8 173	19,310	8 759	18,631	8 451	18,697	8 481
17.5 x 25.0 tires	-56	-26	-28	-13	-28	-13	-28	-13	-28	-13
Hookblock at boom head	430	195	1,112	504	-682	-309	-647	-293	1,077	488
Headache ball at boom head	189	86	489	222	-300	-136	-284	-129	473	214
Auxiliary lifting sheave	114	52	306	139	-192	-87	-182	-82	296	134
25' (7.62 m) lattice fly stowed	533	242	692	314	-159	-72	-116	-52	649	294
25' (7.62 m) offsettable lattice fly stowed	975	442	1,299	589	-324	-147	-244	-111	1,219	553
25' - 43' (7.62 m-13.1 m) offsettable lattice fly stowed	1,520	689	1,987	901	-467	-212	-342	-155	1,862	844

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)
16.00 x 24 (16-PR)	25,000 lbs. (11 340 kg)
17.50 x 25 (20-PR)	25,000 lbs. (11 340 kg)

Lifting Capacities

Rough Terrain Crane

RTC-8018 18-ton (16.34 metric ton)

3 section boom capacities for this versatile machine are listed by the following sections:

Fully Extended Outriggers

- Working Range Diagram
- 27 ft. to 70 ft. main boom capacities
- 25' fixed fly, 25' offset fly, 25' - 43' offset telescoping fly capacities

Intermediate Extended Outriggers

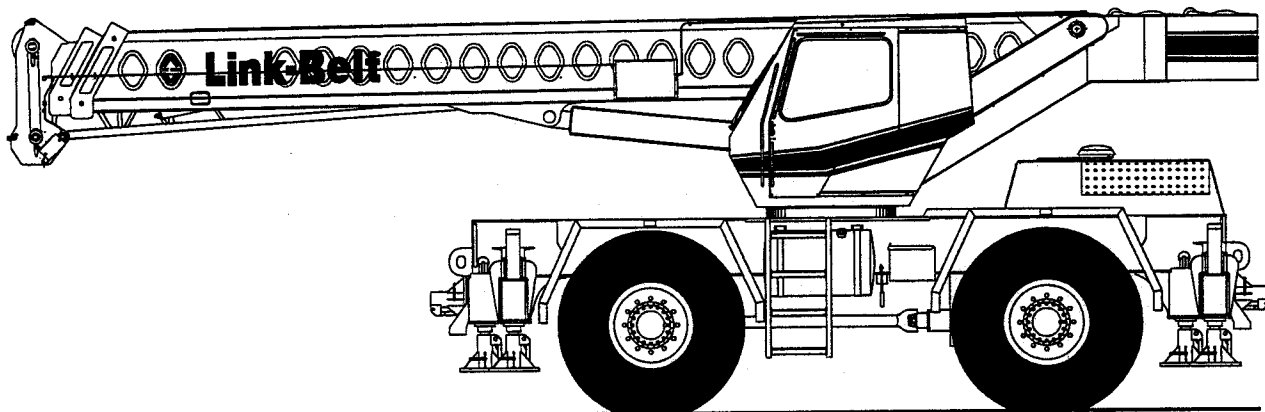
- Working Range Diagram
- 27 ft. to 70 ft. main boom capacities
- 25' fixed fly, 25' offset fly, 25' - 43' offset telescoping fly capacities

Fully Retracted Outriggers

- Working Range Diagram
- 27 ft. to 70 ft. main boom capacities

On Tires

- Working Range Diagram
- 27 ft. to 70 ft. main boom capacities



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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OPERATING INSTRUCTIONS

GENERAL:

1. Rated lifting capacities in pounds as shown on lift charts pertain to the 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 extended, or fully extended.
3. When making lifts on tires, they must be inflated to the recommended pressure. (See Operation Note 19.)
4. Do not exceed 64° boom angle while on tires since 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 5,000 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 5,000 pounds or 80% of rated lifting capacity, whichever is less. For clamshell and magnet operation, maximum boom length is restricted to 50 feet and the boom angle is restricted to a minimum of 35 degrees. Lifts with any fly erected are prohibited for both clam and magnet operation.
2. The crane capacities shown on fully extended outriggers 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 the 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 tip or cause boom failure.

Operating Instructions (cont'd)

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 is smaller.
 - b. For load radii not listed, use rating for next larger radius.
10. The user shall operate at reduced ratings to allow for adverse 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, two machine lifts, 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 equally.
13. The least stable working area on fully extended outriggers is over the rear. The least stable working area on intermediate outriggers, fully retracted outriggers, or tires 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 70 ft. the rated loads are determined by the boom angle only in the fly capacity columns. For angles not shown use the next lower boom angle to determine the allowable capacity.
17. When working on retracted outriggers, lifts with any fly erected are prohibited.
18. The 27 ft. boom length 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.
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 (creep) are restricted to a maximum speed of 1 MPH and not exceeding 200 ft. in a 30 minute period. The boom must be centered over the front with swing lock engaged and the load must be restrained from swinging. Lifts with any fly erected on tires are prohibited. Tire inflation pressure for stationary and creep operations for the 16.00-24 TG G-2 tires is 80 PSI and for the 17.5-25 L2 tires 105 PSI.

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.

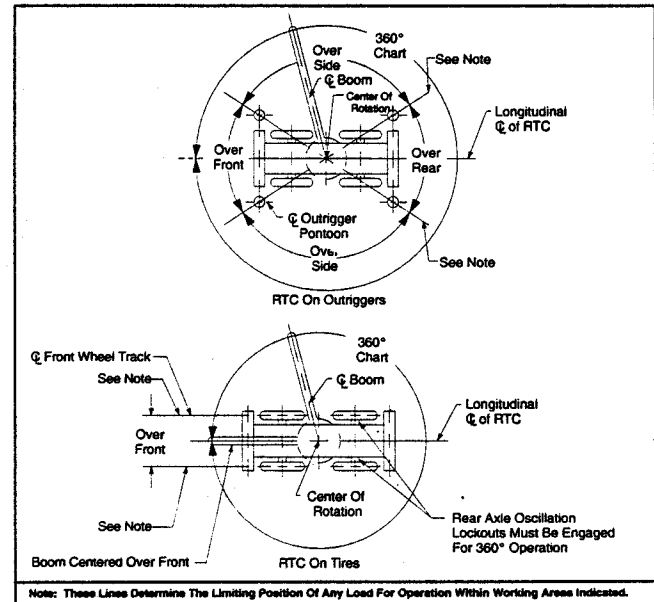
WINCH PERFORMANCE

Winch Line Pulls			
Single Speed Winch		Drum Rope Capacity (FT.)	
Wire Rope Layer	Available Lbs.	Layer	Total
1	8592	62	62
2	7733	69	131
3	7030	76	207
4	6444	82	289
5	5948	89	378

WIRE ROPE STRENGTH

Maximum Lifting Capacities Based On Wire Rope Strength		
Parts of Line	5/8"	Notes
	Type RB	
1*	9,080	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	18,160	
3	27,240	
4	36,320	
5	45,400	
6	54,480	
7	63,560	
8	72,640	
LBCE	DESCRIPTION	
TYPE RB	18 X 19 Rotation Resistant - Extra Improved Plow Steel - Preformed Right Lay - Regular Lay, Swaged	

WORKING AREAS



HYDRAULIC CIRCUIT PRESSURE SETTINGS

Function	Pressure (PSI)
Front And Rear Winch	3,500
Outriggers	2,600
Boom Hoist	3,500
Telescope	3,500
Swing	1,350
Steering	2,500
Hydraulic Controllers	500
Throttle	100

CAPACITY DEDUCTIONS FOR AUXILIARY LOAD HANDLING EQUIPMENT

Load Handling Equipment:	Weight (Lbs.)
Auxiliary Head Attached	100
5 Ton Hook Ball (See Hook Ball For Actual Weight)	172
8.5 Ton Hook Ball (See Hook Ball For Actual Weight)	354
25 Ton Hook Block W/Cheek Weight Kit (See Hook Block For Actual Weight)	653

Lifting From Main Boom With:	Weight (Lbs.)
25 Ft. Fixed Fly Stowed On Boom Base	200
25 Ft. Fixed Fly Erected But Not Used	1,600
25 Ft. Offset Fly Stowed On Boom Base	400
25 Ft. Offset Fly Erected But Not Used	2,900
25-43 Ft. Offset Fly Stowed On Base	600
25-43 Ft. Offset Fly Erected But Not Used (Retracted)	3,300
25-43 Ft. Offset Fly Erected But Not Used (Extended)	4,100

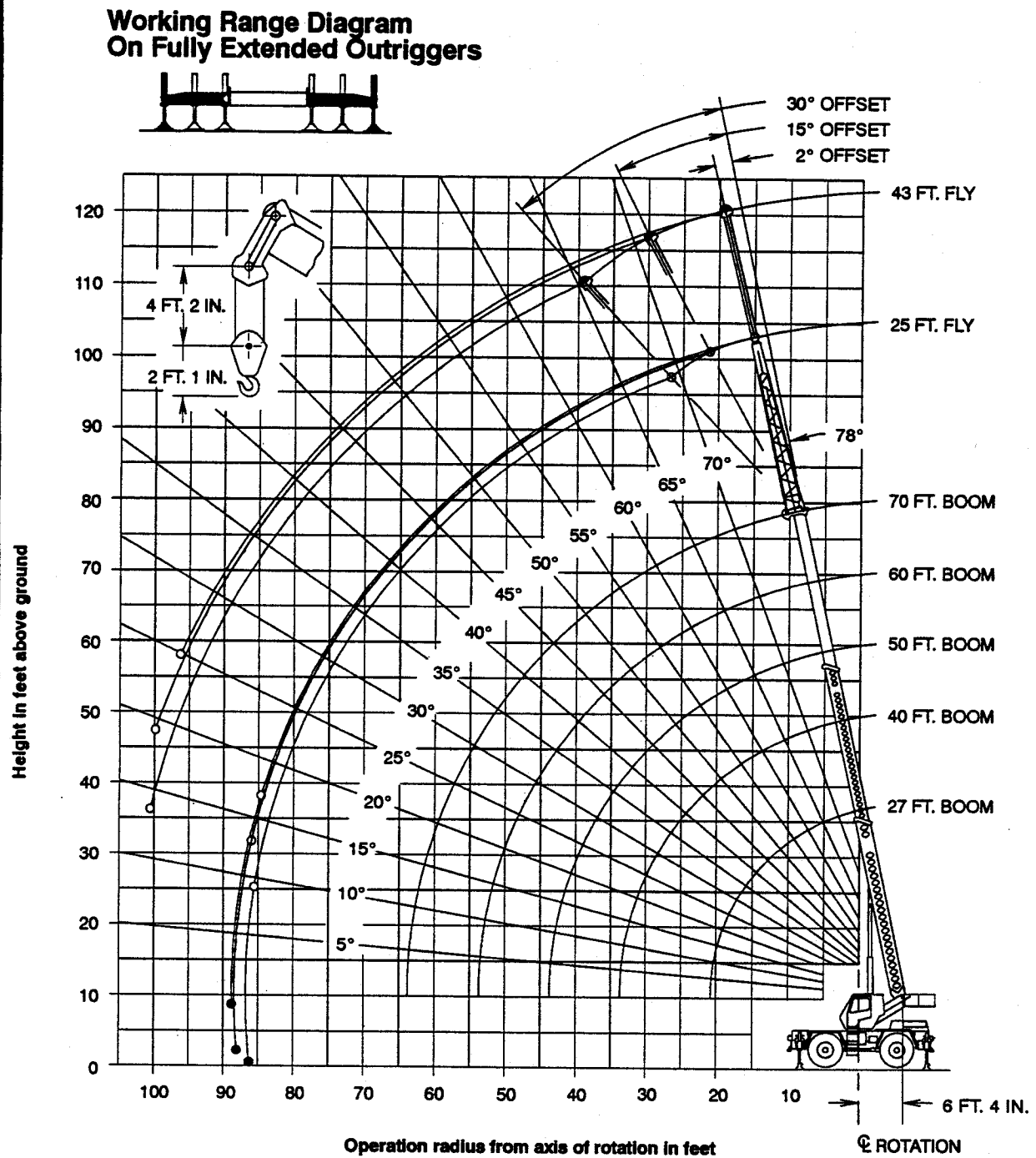
PONTOON LOADINGS

Maximum Pontoon Load:	Maximum Pontoon Ground Bearing Pressure:
40,000 Lbs.	200 PSI

OUTRIGGER SPREAD

Position	Distance
Fully Retracted	88.75" - (7'-4 ³ / ₄ ")
Intermediate Extended	155.75" - (12'-11 ³ / ₄ ")
Fully Extended	222.75" - (18'-6 ³ / ₄ ")

WORKING RANGE DIAGRAM



- Denotes 25 Ft. – 43 Ft. Offset Telescoping Fly
- Denotes Offset Fly And Fixed Fly



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.



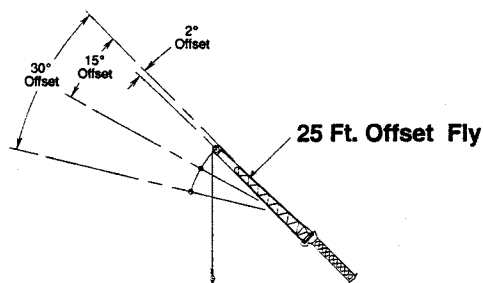
WARNING

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.

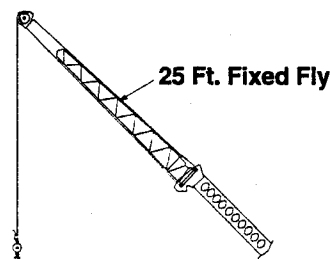
Fully Extended Outriggers

		Maximum Allowable Lifting Capacities Rated Lifting Capacities in Pounds On Fully Extended Outriggers See Set Up Note 2.							
27 Ft. To 50 Ft. Main Boom									
Load Radius In Feet	27 Ft.		40 Ft.		50 Ft.		Load Radius In Feet		
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°			
10	58.0	38,000	69.5	38,000	74.5	38,000	10		
12	52.5	33,600	66.5	33,600	72.0	33,600	12		
15	43.5	28,300	61.5	28,300	68.0	28,300	15		
20	19.5	18,800	52.5	18,800	61.5	18,800	20		
25	See Operation Note 18.		42.0	14,700	54.5	14,700	25		
30			28.5	11,600	47.0	11,600	30		
35					37.5	9,200	35		
40					25.5	7,100	40		
Min. Boom Angle/Cap.	0°	17,900	0°	9,600	0°	6,000	Min. Boom Angle/Cap.		

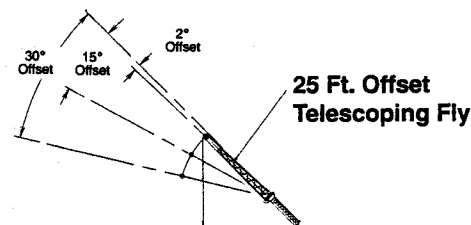
60 Ft. To 70 Ft. Main Boom					
Load Radius In Feet	60 Ft.		70 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
12	76.0	32,000	76.0	22,300	12
15	72.5	28,300			15
20	67.5	18,800	71.5	17,700	20
25	62.0	14,700	67.0	14,500	25
30	56.0	11,600	62.0	11,600	30
35	49.5	9,300	57.5	9,400	35
40	42.5	7,300	52.0	7,400	40
45	34.5	5,800	46.0	5,900	45
50	23.5	4,700	39.5	4,700	50
55			32.0	3,900	55
60			22.0	3,200	60
Min. Boom Angle/Cap.	0°	4,000	0°	2,700	Min. Boom Angle/Cap.



Maximum Allowable Lifting Capacities Rated Lifting Capacities in Pounds On Fully Extended Outriggers See Set Up Note 2.							
70 Ft. Main Boom + 25 Ft. Offset Fly							
Load Radius In Feet	2° Offset		15° Offset		30° Offset		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
20	77.0	11,700	77.5	7,600	77.5	5,600	20
25	74.0	10,800					25
30	71.0	9,500	74.5	7,000	74.5	5,200	30
35	67.5	8,400	71.0	6,600	71.0	4,800	35
40	64.5	7,300	67.5	5,900	67.5	4,400	40
45	60.5	6,100	64.0	5,400	64.5	4,000	45
50	57.0	5,100	60.5	4,700	60.5	3,700	50
55	53.0	4,200	56.5	4,100	56.5	3,300	55
60	49.0	3,500	52.5	3,700	52.5	3,000	60
65	44.5	2,900	48.0	3,000	48.0	2,600	65
70	39.5	2,400	43.0	2,500	43.0	2,100	70
75	34.5	1,900	37.5	2,000	37.5	1,700	75
80	28.0	1,600	31.0	1,700	31.0	1,300	80
85	19.5	1,300	22.0	1,300	21.5	1,300	85
Min. Boom Angle/Cap.	0°	1,100	0°	1,100	0°	1,100	Min. Boom Angle/Cap.

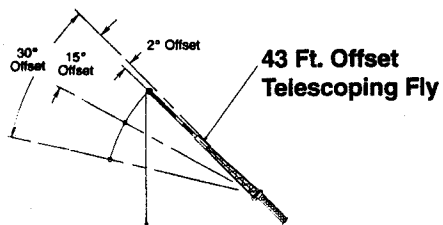


Maximum Allowable Lifting Capacities Rated Lifting Capacities in Pounds On Fully Extended Outriggers See Set Up Note 2.			
70 Ft. Main Boom + 25 Ft. Fixed Fly			
Load Radius In Feet	Loaded Boom Angle (Deg.)	360°	Load Radius In Feet
20	77.0	12,000	20
25	74.0	11,000	25
30	70.5	10,000	30
35	67.5	9,000	35
40	64.0	8,000	40
45	60.5	6,500	45
50	56.5	5,400	50
55	52.5	4,500	55
60	48.5	3,800	60
65	44.0	3,200	65
70	39.0	2,700	70
75	33.5	2,300	75
80	27.0	1,900	80
85	18.5	1,600	85
Min. Boom Angle/Cap.	0°	1,400	Min. Boom Angle/Cap.



Maximum Allowable Lifting Capacities Rated Lifting Capacities in Pounds On Fully Extended Outriggers See Set Up Note 2.							
70 Ft. Main Boom + 25 Ft. Offset Telescoping Fly							
Load Radius In Feet	2° Offset		15° Offset		30° Offset		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
20	77.0	11,500	77.5	7,600	77.5	5,600	20
25	74.0	10,800					25
30	71.0	9,400	74.5	7,000	74.5	5,200	30
35	68.0	8,300	71.0	6,500	71.0	4,800	35
40	64.5	7,200	67.5	5,900	67.5	4,400	40
45	60.5	5,800	64.5	5,500	64.5	4,000	45
50	57.0	4,800	60.5	4,600	60.5	3,700	50
55	53.0	3,900	56.5	3,800	56.5	3,300	55
60	49.0	3,100	52.5	3,300	52.5	3,000	60
65	44.5	2,500	48.0	2,700	48.0	2,600	65
70	39.5	2,000	43.0	2,200	43.0	2,300	70
75	34.5	1,600	37.5	1,700	37.5	1,800	75
80	28.0	1,200	31.0	1,300	31.0	1,400	80
85	19.5	900	22.0	1,000	21.0	1,000	85
<div style="text-align: center;"> WARNING Do Not Lower 25 Ft. Offset Telescoping Fly in Working Position Below 18 Degrees Unless Main Boom Length is 66 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition. </div>							

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



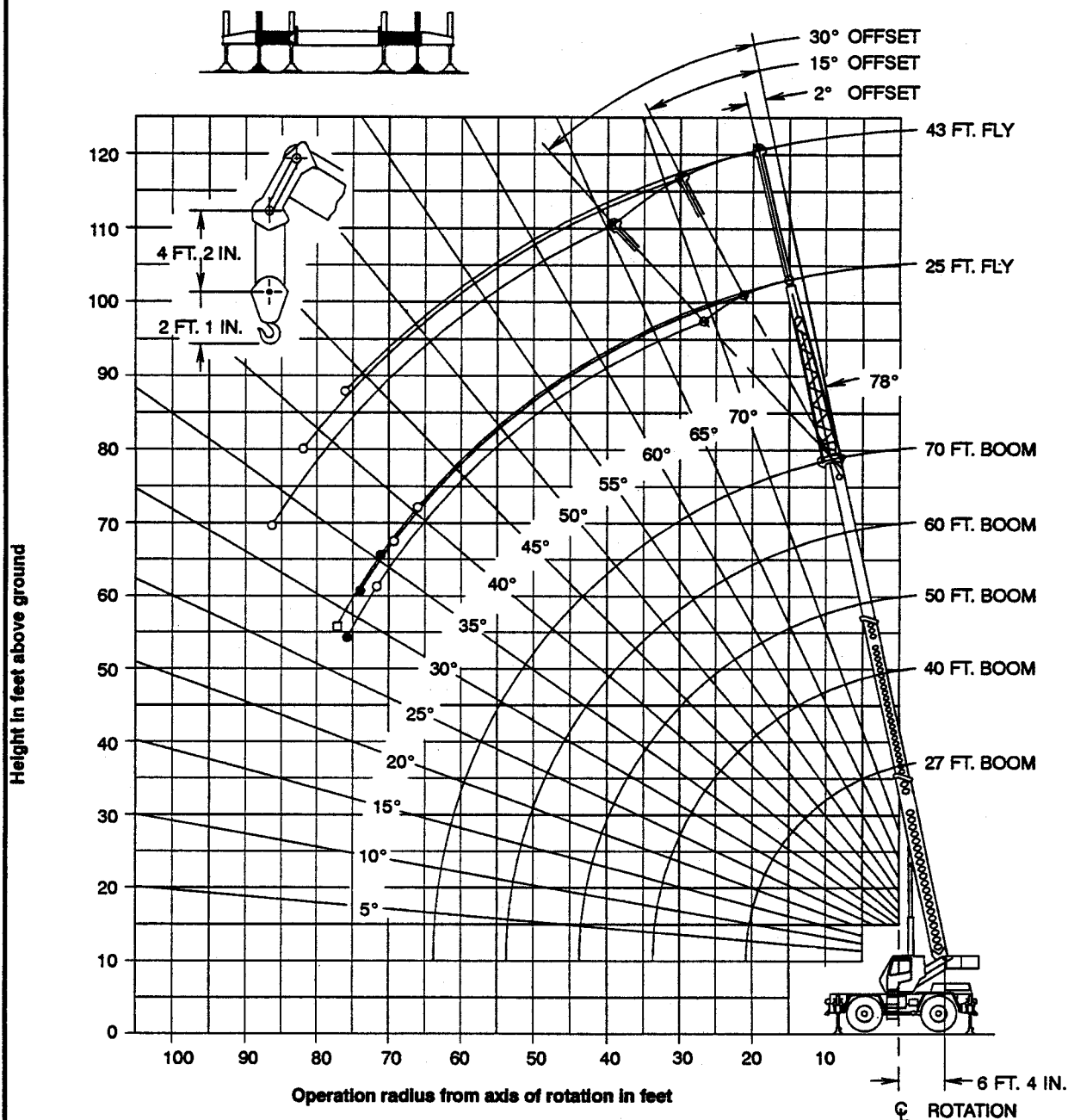
Maximum Allowable Lifting Capacities Rated Lifting Capacities in Pounds On Fully Extended Outriggers See Set Up Note 2.							
70 Ft. Main Boom + 43 Ft. Offset Telescoping Fly							
Main Boom Angle (Deg.)	2° Offset		15° Offset		30° Offset		Load Radius in Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
78.0°		5,500					20
76.5		4,800					25
74.0		4,400					30
71.5		4,100	76.5	3,100			35
69.0		3,800	73.5	2,900	78.0°	2,500	40
66.0		3,500	71.0	2,700	76.0	2,400	45
63.5		3,200	68.0	2,600	73.0	2,300	50
60.5		3,000	65.5	2,500	70.0	2,200	55
57.5		2,900	62.0	2,400	67.0	2,100	60
54.5		2,800	59.0	2,300	63.5	2,000	65
51.0		2,600	56.0	2,200	60.0	1,900	70
47.5		2,200	52.5	2,100	56.5	1,900	75
43.5		1,800	48.5	2,000	52.5	1,800	80
39.5		1,500	44.5	1,600	48.0	1,700	85
35.0		1,200	39.5	1,300	43.0	1,400	90
30.0		900	34.0	1,100	37.0	1,100	95
					29.0	800	100

Based on maximum obtainable boom angle.

WARNING

Do not use 43 Ft. Offset Telescoping Fly in Working Position Below 26 Degrees Unless Main Boom Angle is 30° or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.

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**

- Denotes 25 Ft. – 43 Ft. Offset Telescoping Fly
- Denotes Offset Fly
- Denotes Fixed Fly

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.

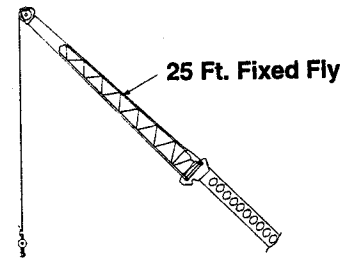
**WARNING**

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

Maximum Allowable Lifting Capacities Rated Lifting Capacities in Pounds On Intermediate Extended Outriggers See Set Up Note 2.							
27 Ft. To 50 Ft. Main Boom							
Load Radius In Feet	27 Ft.		40 Ft.		50 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
10	58.0	36,000	69.5	36,000	74.5	36,000	10
12	52.5	33,600	66.5	33,600	72.0	33,600	12
15	43.0	25,900	61.5	28,700	68.0	26,800	15
20	19.5	14,800	52.5	15,500	61.5	15,700	20
25	See Operation Note 18.		42.0	10,300	54.0	10,500	25
30			28.5	7,400	46.5	7,600	30
35					37.0	5,700	35
40					25.0	4,300	40
Min. Boom Angle/Cap.	0°	13,700	0°	5,900	0°	3,500	Min. Boom Angle/Cap.

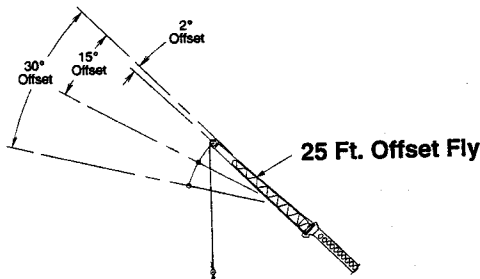
60 Ft. To 70 Ft. Main Boom					
Load Radius In Feet	60 Ft.		70 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
12	75.5	32,000			12
15	72.5	26,800	75.5	22,300	15
20	67.0	15,900	71.0	16,000	20
25	61.5	10,700	66.5	10,800	25
30	55.5	7,700	61.5	7,800	30
35	49.0	5,800	56.5	5,900	35
40	42.0	4,400	51.5	4,500	40
45	34.0	3,400	45.5	3,500	45
50	23.0	2,600	39.0	2,700	50
55			31.5	2,100	55
60			21.5	1,600	60
Min. Boom Angle/Cap.	0°	2,200	0°	1,300	Min. Boom Angle/Cap.



Maximum Allowable Lifting Capacities Rated Lifting Capacities in Pounds On Intermediate Extended Outriggers See Set Up Note 2.			
70 Ft. Main Boom + 25 Ft. Fixed Fly			
Load Radius In Feet	Loaded Boom Angle (Deg.)	360°	Load Radius In Feet
20	76.5	12,000	20
25	73.5	11,000	25
30	70.0	8,500	30
35	66.5	6,500	35
40	63.0	5,100	40
45	59.5	4,100	45
50	55.5	3,300	50
55	51.5	2,600	55
60	47.5	2,100	60
65	43.0	1,700	65
70	38.0	1,300	70
75	33.0	1,000	75

WARNING

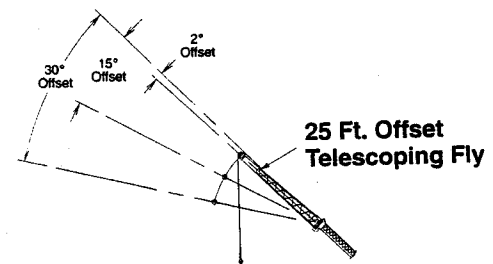
Do Not Lower 25 Ft. Fixed Fly in Working Position Below 28.5 Degrees Unless Main Boom Length is 50 Ft. Or Less. Since Loss Of Stability Will Occur Causing A Tipping Condition.



Maximum Allowable Lifting Capacities Rated Lifting Capacities in Pounds On Intermediate Extended Outriggers See Set Up Note 2.							
70 Ft. Main Boom + 25 Ft. Offset Fly							
Load Radius In Feet	2° Offset		15° Offset		30° Offset		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
20	76.5	11,700					20
25	73.5	10,900	73.0	7,800			25
30	70.0	8,300	70.0	7,000	69.5	5,600	30
35	66.5	6,200	66.5	6,600	66.5	5,200	35
40	63.0	4,800	63.0	5,200	63.0	4,800	40
45	59.5	3,800	59.5	4,100	59.5	4,400	45
50	56.0	3,000	56.0	3,300	56.0	3,500	50
55	52.0	2,300	52.0	2,600	52.0	2,800	55
60	48.0	1,800	48.0	2,000	48.0	2,200	60
65	43.5	1,400	43.5	1,600	43.5	1,700	65
70	38.5	1,000	38.5	1,200	39.0	1,300	70

WARNING

Do Not Lower 25 Ft. Offset Fly in Working Position Below 38 Degrees Unless Main Boom Length is 50 Ft. Or Less. Since Loss Of Stability Will Occur Causing A Tipping Condition.

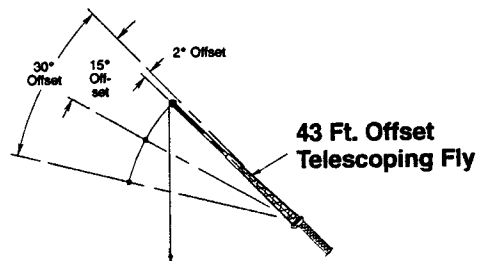


Maximum Allowable Lifting Capacities Rated Lifting Capacities in Pounds On Intermediate Extended Outriggers See Set Up Note 2.							
70 Ft. Main Boom + 25 Ft. Offset Telescoping Fly							
Load Radius In Feet	2° Offset		15° Offset		30° Offset		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
20	76.5	11,500					20
25	73.5	10,800					25
30	70.0	7,900	73.0	7,600	69.5	5,600	30
35	66.5	5,900	66.5	7,000	66.5	5,200	35
40	63.0	4,500	63.0	6,400	66.5	5,200	40
45	59.5	3,400	59.5	4,900	63.0	4,800	45
50	56.0	2,600	56.0	3,800	59.5	4,100	50
55	52.0	2,000	52.0	2,900	56.0	3,200	55
60	48.0	1,500	48.0	2,200	52.0	2,500	60
65	43.5	1,000	43.5	1,700	48.0	1,900	65
					43.5	1,400	65

WARNING

Do Not Lower 25 Ft. Offset Telescoping Fly in Working Position Below 41 Degrees Unless Main Boom Length is 50 Ft. Or Less. Since Loss Of Stability Will Occur Causing A Tipping Condition.

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



GENERAL INFORMATION ONLY

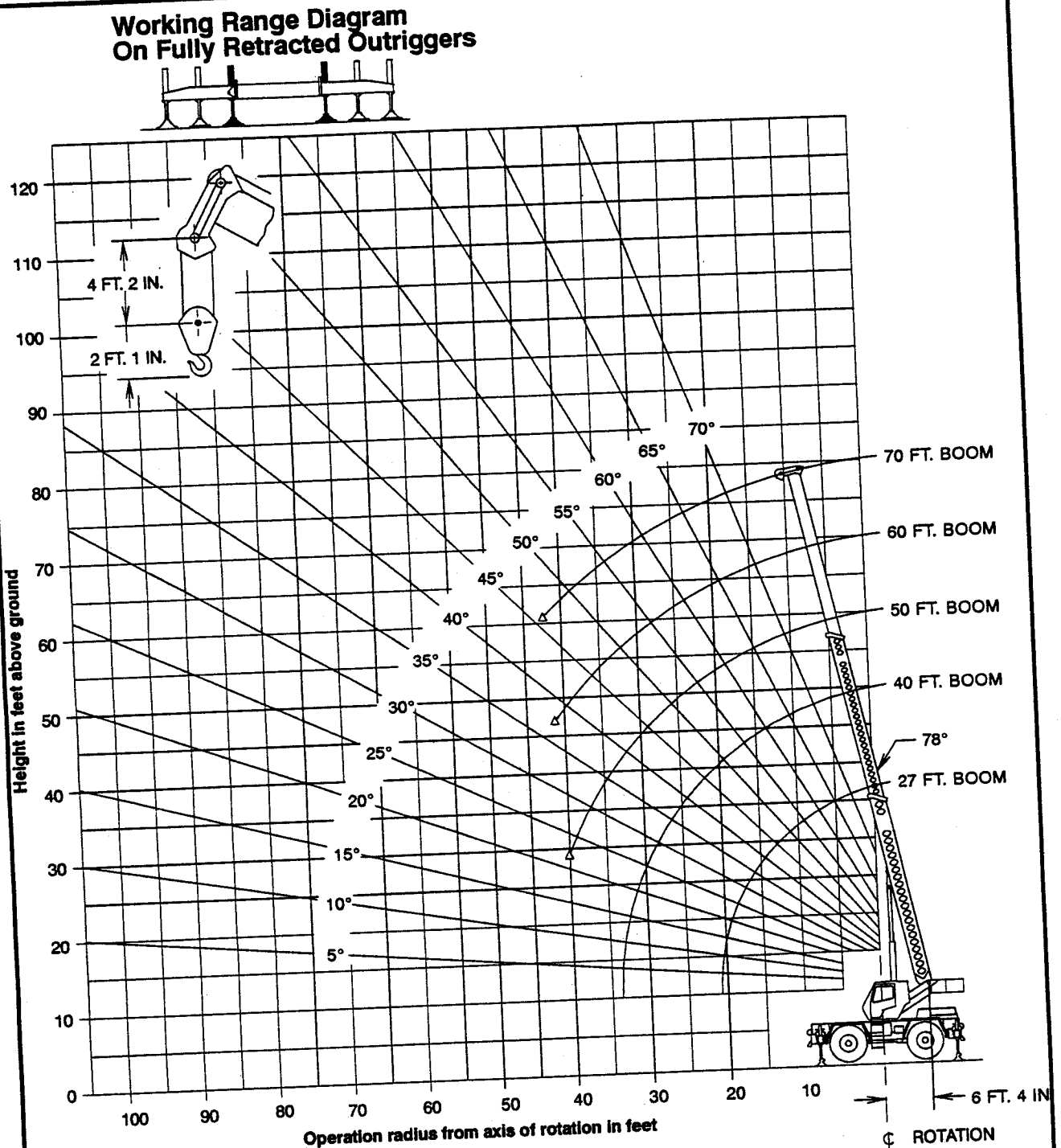
Maximum Allowable Lifting Capacities Rated Lifting Capacities in Pounds On Intermediate Extended Outriggers See Set Up Note 2.							
70 Ft. Main Boom + 43 Ft. Offset Telescoping Fly							
Load Radius In Feet	2° Offset		15° Offset		30° Offset		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
20	78.0°	5,500					20
25	76.0	4,800					25
30	73.5	4,400					30
35	70.5	4,100	70.5	3,100			35
40	68.0	3,800	68.0	2,900	67.5	2,500	40
45	65.5	3,500	65.0	2,700	65.0	2,400	45
50	62.5	3,200	62.5	2,600	62.0	2,300	50
55	59.5	2,600	59.5	2,500	59.5	2,200	55
60	56.5	2,000	56.5	2,400	56.5	2,100	60
65	53.0	1,600	53.0	1,900	53.5	2,000	65
70	49.5	1,200	50.0	1,500	50.0	1,800	70
75	46.0	900	46.5	1,200	46.5	1,400	75

* This capacity based on maximum obtainable boom angle.

WARNING
Do Not Lower 43 Ft. Offset Telescoping Fly In Working Position Below 44 Degrees Unless Main Boom Length Is 46 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.

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

WORKING RANGE DIAGRAM



△ Denotes Main Boom

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.

Fully Retracted Outriggers

GENERAL INFORMATION ONLY

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

27 Ft. To 50 Ft. Main Boom

Load Radius In Feet	27 Ft.		40 Ft.		50 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
10	58.0	21,600	69.5	22,200	74.0	22,500	10
12	52.5	15,600	66.0	16,100	71.5	16,400	12
15	43.0	10,500	61.0	11,000	67.5	11,200	15
20	19.5	6,200	52.0	6,700	61.0	6,900	20
25	See Operation Note 18.		42.0	4,400	54.0	4,500	25
30			28.0	2,900	48.0	3,100	30
35					37.0	2,100	35
40					25.0	1,400	40
Min. Boom Angle/Cap.	0°	5,700	0°	2,100	22°		Min. Boom Angle/Cap.

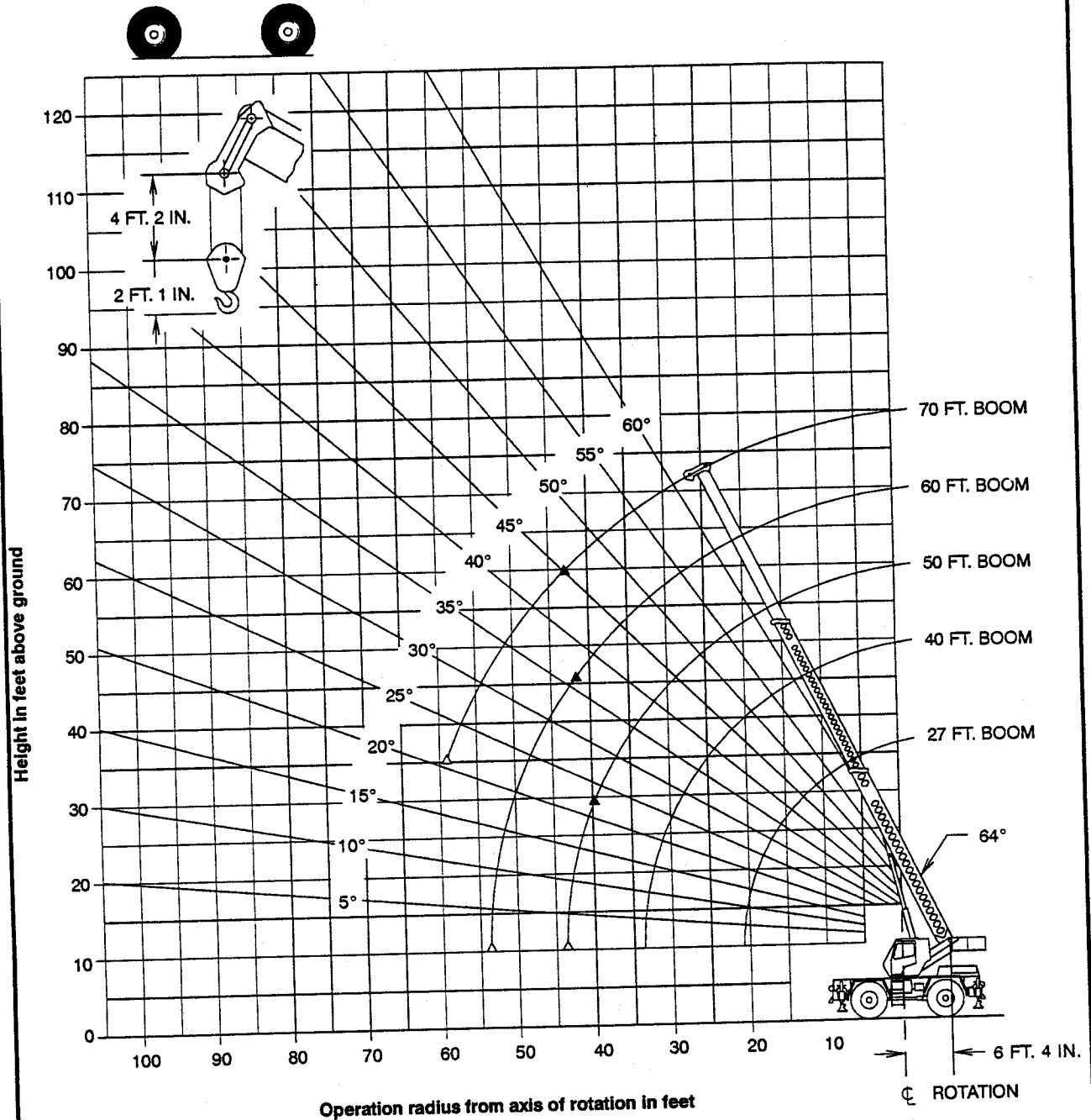
60 Ft. To 70 Ft. Main Boom

Load Radius In Feet	60 Ft.		70 Ft.		Load Radius In Feet
	Loaded Boom Angle (Deg.)	360°	Loaded Boom Angle (Deg.)	360°	
12	75.0	16,500	75.0		12
15	72.0	11,300		11,400	15
20	66.5	7,000		7,100	20
25	61.0	4,600		4,700	25
30	55.0	3,200	61.0	3,300	30
35	49.0	2,200	56.5	2,300	35
40	42.0	1,500	51.0	1,600	40
Min. Boom Angle/Cap.	37.5°		48°		Min. Boom Angle/Cap.

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

WORKING RANGE DIAGRAM

Working Range Diagram
On Tires



- △ Denotes Main Boom Between Tire Tracks Over Front Or Boom Centered Over Front
▲ Denotes Main Boom 360°




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.




On Tires

 <div>On Tire Capacities in Pounds With 16.00-24 TG G-2 Tires Tire Pressure: 80 PSI Stationary Capacities – Between Tire Tracks Over Front See Operation Note 19.</div> <div></div>							
Load Radius In Feet	27 Ft. to 50 Ft. Main Boom						Load Radius In Feet
	27 Ft.		40 Ft.		50 Ft.		
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
9	60.5	30,200					9
10	58.0	27,600					10
12	52.5	22,200					12
15	43.5	14,800	61.5	15,400			15
20	19.5	8,900	52.5	9,400	61.5	9,600	20
25			42.0	6,300	54.5	6,500	25
30	See Operation Note 18.		28.5	4,500	47.0	4,600	30
35					37.5	3,400	35
40					25.5	2,500	40
Min. Boom Angle/Cap.	0°	8,300	0°	3,500	0°	2,000	Min. Boom Angle/Cap.




Load Radius In Feet	60 Ft. to 70 Ft. Main Boom				Load Radius In Feet
	60 Ft.		70 Ft.		
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
25	62.0	6,600	62.0		25
30	56.0	4,700		4,800	30
35	49.5	3,500		3,500	35
40	42.5	2,600		2,600	40
45	34.5	1,900		1,900	45
50	23.5	1,300		1,400	50
55				1,000	55
60			22.0	600	60
Min. Boom Angle/Cap.	0°	1,000	21°		Min. Boom Angle/Cap.

On Tire Capacities in Pounds With 16.00-24 TG G-2 Tires Tire Pressure: 80 PSI Stationary Capacities - 360° See Operation Note 19.							
Load Radius In Feet	27 Ft. to 50 Ft. Main Boom						Load Radius In Feet
	27 Ft.		40 Ft.		50 Ft.		
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
9	60.5	19,500					9
10	58.0	16,300					10
12	52.5	11,900					12
15	43.5	8,100	61.5	8,600			15
20	19.5	4,600	52.5	5,100	61.5	5,300	20
25			42.0	3,300	54.5	3,400	25
30	See Operation Note 18.		28.5	2,100	47.0	2,200	30
35					37.5	1,400	35
40					25.5	800	40
Min. Boom Angle/Cap.	0°	4,300	0°	1,400	21°		Min. Boom Angle/Cap.

Load Radius In Feet	60 Ft. to 70 Ft. Main Boom				Load Radius In Feet
	60 Ft.		70 Ft.		
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
25	62.0	3,500			25
30	56.0	2,300	62.0	2,400	30
35	49.5	1,500	57.5	1,600	35
40	42.5	900	52.0	1,000	40
Min. Boom Angle/Cap.	37°		45°		Min. Boom Angle/Cap.

 On Tire Capacities in Pounds With 16.00-24 TG G-2 Tires Tire Pressure: 80 PSI Pick & Carry Capacities - (1 MPH) Boom Centered Over Front See Operation Note 18.									
Load Radius in Feet	27 Ft. to 50 Ft. Main Boom						Load Radius in Feet		
	27 Ft.		40 Ft.		50 Ft.				
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load			
9	60.5	30,100					9		
10	58.0	27,900					10		
12	52.5	22,200					12		
15	43.5	14,800	61.5	15,400			15		
20	19.5	8,900	52.5	9,400	61.5	9,600	20		
25			42.0	6,300	54.5	6,500	25		
30	See Operation Note 18.		28.5	4,500	47.0	4,600	30		
35					37.5	3,400	35		
40					25.5	2,500	40		
Min. Boom Angle/Cap.	0°	8,300	0°	3,500	0°	2,000	Min. Boom Angle/Cap.		

Load Radius In Feet	60 Ft. to 70 Ft. Main Boom				Load Radius In Feet
	60 Ft.		70 Ft.		
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
25	62.0	6,600	62.0		25
30	56.0	4,700		4,800	30
35	49.5	3,500		3,500	35
40	42.5	2,600		2,600	40
45	34.5	1,900		1,900	45
50	23.5	1,300	39.5	1,400	50
55			32.0	1,000	55
60			22.0	600	60
Min. Boom Angle/Cap.	0°	1,000	21°		Min. Boom Angle/Cap.

		On Tire Capacities in Pounds With 17.5-25 L-2 Tires Tire Pressure: 105 PSI Stationary Capacities – Between Tire Tracks Over Front See Operation Note 19.					 	
Load Radius In Feet	27 Ft. to 50 Ft. Main Boom						Load Radius In Feet	
	27 Ft.		40 Ft.		50 Ft.			
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load		
9	60.5	27,600					9	
10	58.0	25,700					10	
12	52.5	21,800					12	
15	43.5	14,800	61.5	15,400			15	
20	19.5	8,900	52.5	9,400	61.5	9,600	20	
25			42.0	6,300	54.5	6,500	25	
30	See Operation Note 18.		28.5	4,500	47.0	4,600	30	
35					37.5	3,400	35	
40					25.5	2,500	40	
Min. Boom Angle/Cap.	0°	8,300	0°	3,500	0°	2,000	Min. Boom Angle/Cap.	

Load Radius In Feet	60 Ft. to 70 Ft. Main Boom				Load Radius In Feet
	60 Ft.		70 Ft.		
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
25	62.0	6,600	62.0		25
30	56.0	4,700		4,800	30
35	49.5	3,500		3,500	35
40	42.5	2,600		2,600	40
45	34.5	1,900		1,900	45
50	23.5	1,300	39.5	1,400	50
55			32.0	1,000	55
60			22.0	600	60
Min. Boom Angle/Cap.	0°	1,000	21°		Min. Boom Angle/Cap.

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

On Tire Capacities in Pounds With 17.5-25 L-2 Tires




Tire Pressure: 105 PSI

Pick & Carry Capacities - (1 MPH) Boom Centered Over Front

See Operation Note 19.

Load Radius In Feet	27 Ft. to 50 Ft. Main Boom						Load Radius In Feet
	27 Ft.		40 Ft.		50 Ft.		
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
9	60.5	27,400					9
10	58.0	25,300					10
12	52.5	21,900					12
15	43.5	14,800	61.5	15,400			15
20	19.5	8,900	52.5	9,400	61.5	9,600	20
25	See Operation Note 18.		42.0	6,300	54.5	6,500	25
30			28.5	4,500	47.0	4,600	30
35					37.5	3,400	35
40					25.5	2,500	40
Min. Boom Angle/Cap.	0°	8,300	0°	3,500	0°	2,000	Min. Boom Angle/Cap.

Load Radius In Feet	60 Ft. to 70 Ft. Main Boom				Load Radius In Feet
	60 Ft.		70 Ft.		
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	
25	62.0	6,600			25
30	56.0	4,700	62.0	4,800	30
35	49.5	3,500	57.5	3,500	35
40	42.5	2,600	52.0	2,600	40
45	34.5	1,900	46.0	1,900	45
50	23.5	1,300	39.5	1,400	50
55			32.0	1,000	55
60			22.0	600	60
Min. Boom Angle/Cap.	0°	1,000	21°		Min. Boom Angle/Cap.

								On Tire Capacities in Pounds With 17.5-25 L-2 Tires Tire Pressure: 105 PSI Stationary Capacities - 360° See Operation Note 19.											
Load Radius In Feet	27 Ft. to 50 Ft. Main Boom						Load Radius In Feet												
	27 Ft.		40 Ft.		50 Ft.														
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load													
9	60.5	19,500					9												
10	58.0	16,100					10												
12	52.5	11,800					12												
15	43.5	8,000					61.5	8,500	15										
20	19.5	4,600					52.5	5,100	61.5	5,300	20								
25	See Operation Note 18.		42.0	3,200	54.5	3,400	25												
30			28.5	2,000	47.0	2,200	30												
35					37.5	1,400	35												
40					25.5	800	40												
Min. Boom Angle/Cap.	0°	4,200	0°	1,400	21°		Min. Boom Angle/Cap.												

Load Radius In Feet	60 Ft. to 70 Ft. Main Boom				Load Radius In Feet		
	60 Ft.		70 Ft.				
	Loaded Boom Angle (Deg.)	Load	Loaded Boom Angle (Deg.)	Load			
25	62.0	3,500			25		
30	56.0	2,300			62.0	2,400	30
35	49.5	1,500			57.5	1,500	35
40	42.5	900			52.0	900	40
Min. Boom Angle/Cap.	37°		45°		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.

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