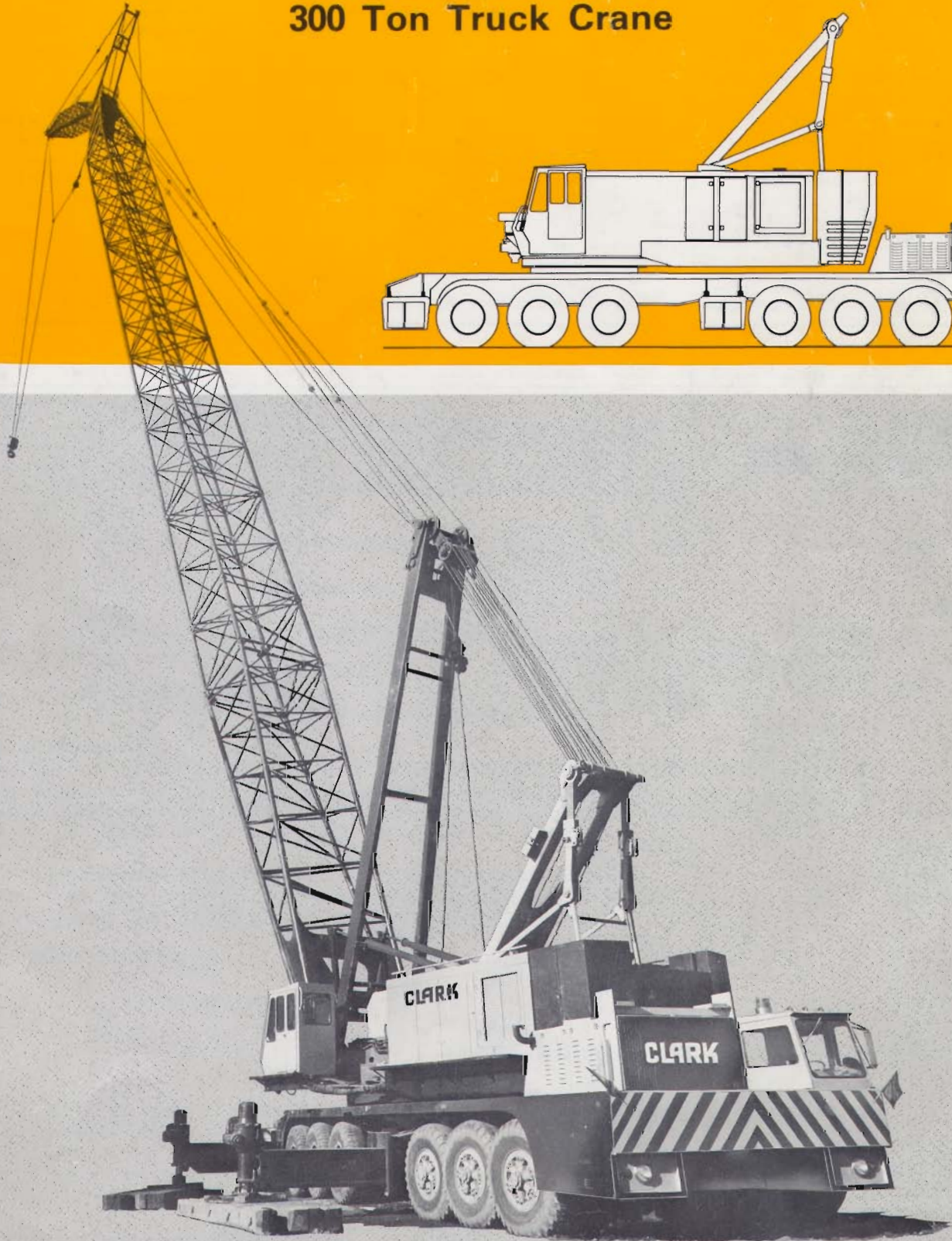
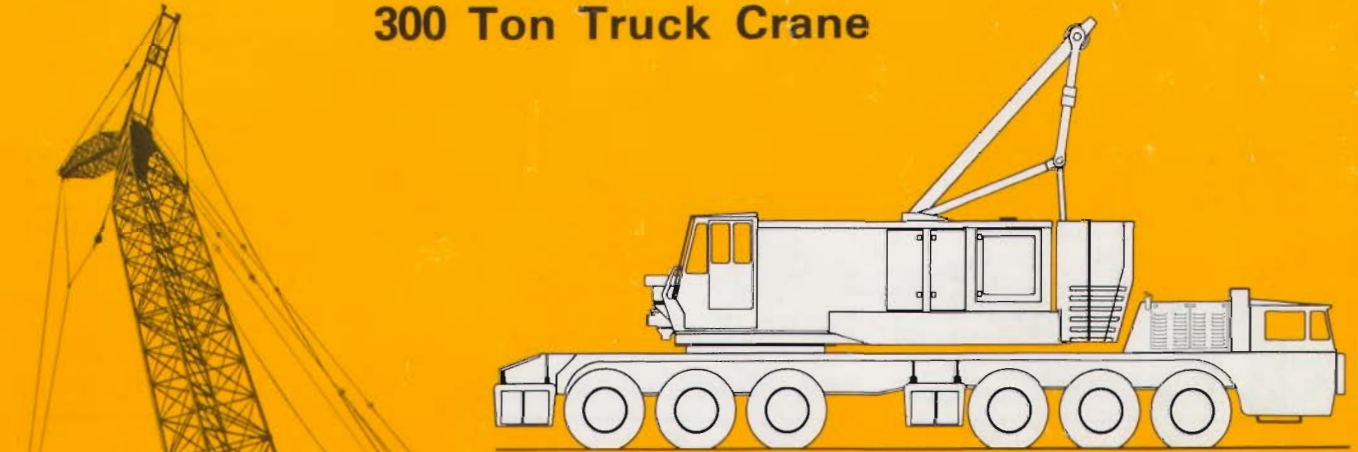


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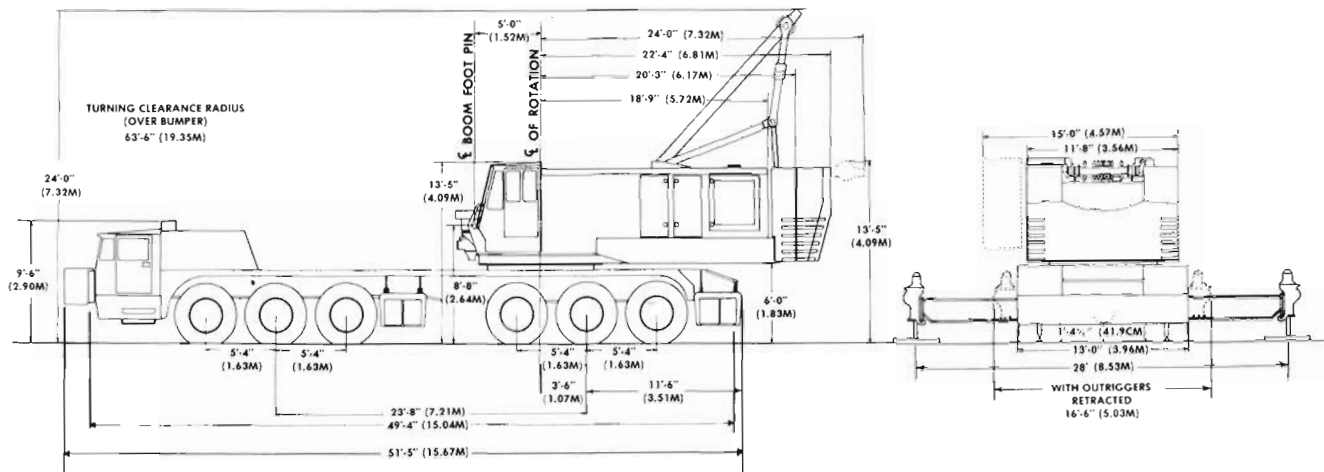
# 7700

Specifications

## 300 Ton Truck Crane

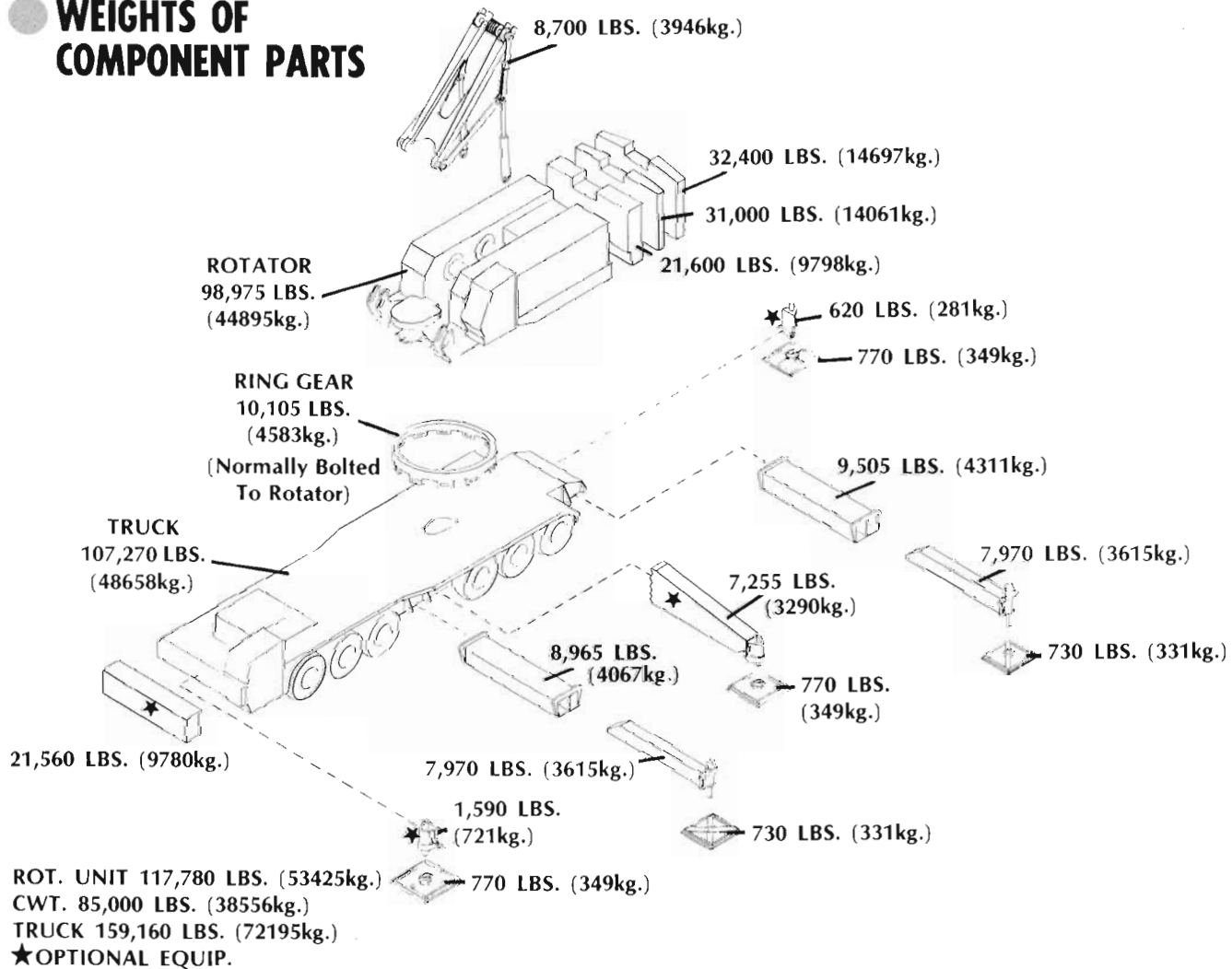


# CLEARANCE & DIMENSIONS

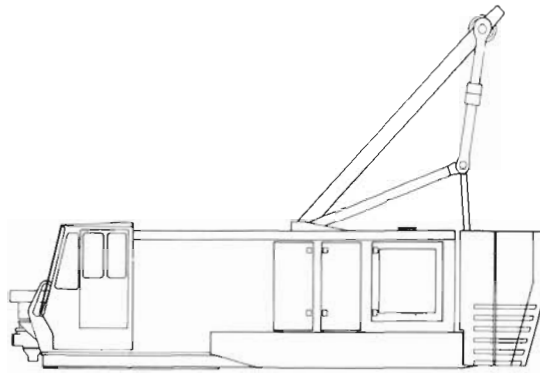


Relative position of the upper works, as shown, is for dimensioning purpose only, and is not recommended for use.

# WEIGHTS OF COMPONENT PARTS



R-1

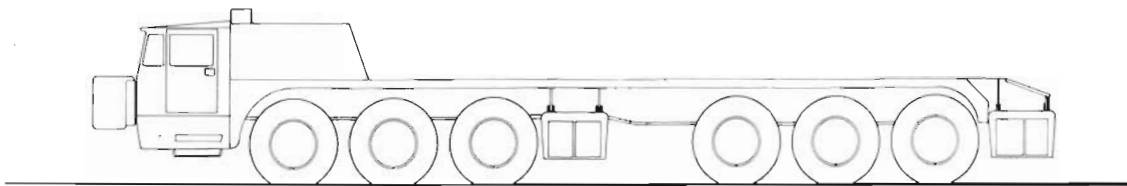


**ROTATING ASSEMBLY**

Equipment includes: Engine (See Item No. RO-100); independent fully hydraulic two drum boom hoist with infinite speed control and power controlled boom lowering; full hydraulic main hoist with infinite speed control in 2 ranges and power controlled lowering on all drums; multi position hydraulically controlled environmental pod; full hydraulic swing system; roller bearing swing circle; cab shutters; counterweight 85,000# (38 556kg); hydraulically controlled backhitch gantry; positive swing lock; running boards with handrails; signal horn; air and electric control equipment.

202,780 LBS. (91981kg)

T-1

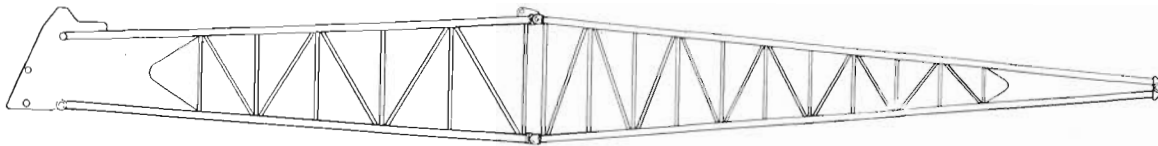


**TRUCK MOUNTING**

Equipment includes: LIMA truck with 12 x 6 drive; engine (See Item No. TO-35); 16:00" x 25" (40.6cm x 63.5cm) - 24 ply rating tires; 6 speed powershift transmission with electric controls, torque converter and hydraulic retarder; 3 planetary driving axles and inter-axle differential; 3 steering axles with power steering; pin on type outrigger boxes; hydraulic outriggers; air service brakes on all wheels; full width and length deck; fenders; flaps; mast rest; half cab; instruments; controls; directional signals; backup lights; west coast mirrors; and tools.

160,540 LBS. (72821kg)

A-2



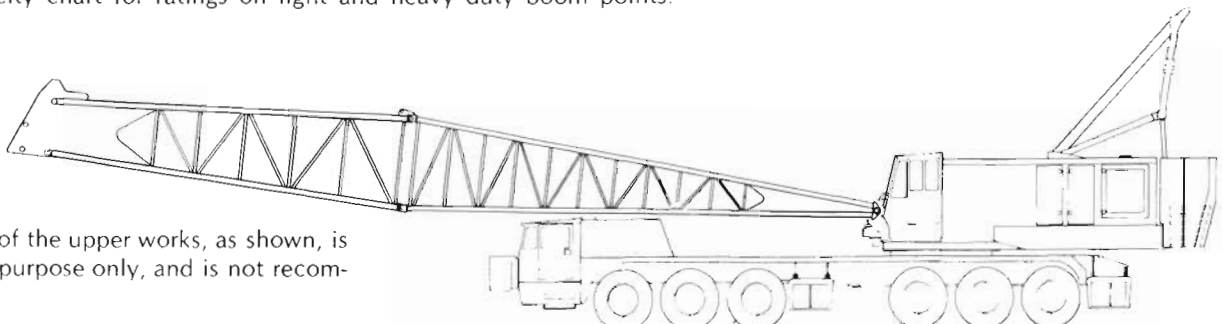
**CRANE ATTACHMENT**

Equipment includes: 70' (21.34M) pin connected tubular boom [90" (228.6cm) x 108" (274.3cm)] [40' (12.19M) base and 30' (9.14M) heavy duty point section] with 7 sheaves for 15 part reeving; rope guards; mast with 14 part boom hoist reeving; swaged type pendants for basic boom; 38" (96.52cm) front and 38" (96.52cm) rear hoist drums; and telescopic boomstops with electric over air shutoff.

31,365 LBS. (14227kg)

Note: Maximum boom length with heavy duty point section, 250' (76.20M)  
Maximum boom length with light duty point section, 330' (100.58M).  
See capacity chart for ratings on light and heavy duty boom points.

Relative position of the upper works, as shown, is for dimensioning purpose only, and is not recommended for use.



**TOTAL WEIGHT OF R-1, T-1 & A-2 = 394,685 LBS. (179 029Kg)**  
**TOTAL WEIGHT OF R-1 & T-1 = 363,320 LBS. (164 802Kg)**

## ● AXLE LOADING AND WEIGHTS

**Complete Machine Equipped As Follows:** Carrier, Outrigger Boxes, Outrigger Beams, Floats, Rotating Unit, Main Counterweight, and 70' (21.34M) Basic Boom.

Weight Combinations	Boom Position	Front Bogie	Rear Bogie	Total Weight
Complete Machine 1	F	*	*	*
	R	146,285 Lbs. (66355kg.)	248,400 Lbs. (112674kg.)	394,685 Lbs. (179029kg.)
Machine Less Main Counterweight 2	F	90,895 Lbs. (41230kg.)	218,790 Lbs. (99243kg.)	309,685 Lbs. (140473kg.)
	R	61,380 Lbs. (27842kg.)	248,305 Lbs. (112631kg.)	309,685 Lbs. (140473kg.)
Machine Less Main Counterweight, Boxes, Beams, and Floats 4	F	86,670 Lbs. (39314kg.)	169,745 Lbs. (76996kg.)	256,415 Lbs. (116310kg.)
	R	57,155 Lbs. (25926kg.)	199,260 Lbs. (90384kg.)	256,415 Lbs. (116310kg.)
Machine Less Main Counterweight, Boxes, Beams, Floats, and Boom Point Section 3	F	*	*	*
	R	83,625 Lbs. (37932kg.)	162,330 Lbs. (73633kg.)	245,955 Lbs. (111565kg.)
Machine Less Main Counterweight, Boxes, Beams, Floats, and Complete Boom. 3	F	*	*	*
	R	101,960 Lbs. (46249kg.)	123,090 Lbs. (55834kg.)	225,050 Lbs. (102083kg.)

F — Denotes Boom Extended Forward.

\* — Do not travel with this combination and boom location.

R — Denotes Boom Extended Rearward.

Tire Pressure to be 95 P.S.I. (65.5 NPSCm)

For best results, the tire manufacturers recommend the following maximum speeds with the loading shown:

1 2.5 M.P.H. (4.02 KmPH); 2 10 M.P.H. (16.10 KmPH); 3 15 M.P.H. (24.14 KmPH) 4 20 M.P.H. (32.18 KmPH)

**Complete Carrier Equipped As Follows:** Carrier, Outrigger Boxes, Outriggers, and Floats.

Weight Combinations	Front Bogie	Rear Bogie	Total
Complete Carrier	120,220 Lbs. (54532kg.)	40,320 Lbs. (18289kg.)	160,540 Lbs. (72821kg.)
Carrier Less Outriggers and Floats	51,140 Lbs. (23197kg.)	74,600 Lbs. (33839kg.)	125,740 Lbs. (57036kg.)
Carrier Less Outriggers, Floats, and Outrigger Boxes	49,855 Lbs. (22614kg.)	57,415 Lbs. (26043kg.)	107,270 Lbs. (48658kg.)

Tire Pressure to be 70 P.S.I. (48.3 NPSCm)

The manufacturers recommend not over 50 miles (80.5 Km) be traveled in any 1½ hour period.

## ● POWER PLANT DATA (CARRIER)

Make	Model	Fuel	Cyl.	Bore & Stroke	Net Horsepower
Cummins	KTA-600	Diesel	6	6¼" x 6¼" (159mm x 159mm)	525 @ 2100 R.P.M.

## ● PERFORMANCE DATA (CARRIER)

Bare Truck Travel Speed — 43 M.P.H. (69.19 KmPH) on 0% grade.

Fully equipped basic machine can travel up a 21% grade.

Basic machine less counterweight, outrigger boxes, beams, floats, and boom can travel up a 24% grade.

Turning radius — 59 ft. (18m) (curb radius).

Number of travel speeds — 18 forward and 3 reverse.

Tires — 16.00 x 25 (40.6cm x 63.5cm) (24 ply)

## DESCRIPTIVE DATA (CARRIER)

### Basic, Standard and Optional Components

**FRAME:** Carrier frame of heavy-duty, all welded construction. Two main members, each of deep box and I-beam section, are joined together by bumper and box section cross members. 100,000 P.S.I. (68944 N/cm<sup>2</sup>) steel is used in highly stressed members of Frame.

**OUTRIGGER BOXES:** The two outrigger boxes are fabricated from steel plates. Boxes are of the pin-on design for ease of removal, and are equipped with rollers for ease in rolling out outrigger beams.

**OUTRIGGER BEAMS:** Four box section extensible beams mounted two in each outrigger box are fabricated of alloy steel and equipped with hydraulic operated screw jacks and floats. Independent control valves for extending each beam and for lowering each hydraulic jack provide precise leveling of truck. Control valve station is portable for unobstructed viewing of jacks.

**FRONT TRIDEM SUSPENSION:** Front tridem axles are suspended by six alloy steel underslung equalizers, four of which are direct-connected to chassis frame. Two torque rods on each axle maintain proper positioning of axles.

**FRONT AXLES:** Three tubular-high clearance type. Wheels are mounted on roller bearings.

**REAR AXLES:** Three planetary rear drive axles, gear ration of 11.455:1. Mid-axle has interaxle differential with lockout.

**REAR TRIDEM SUSPENSION:** Rear tridem axles are suspended by six alloy steel underslung equalizers, four of which are direct-connected to chassis frame. One torque rod on each axle maintains proper positioning of axles.

**WHEELS:** Heavy-duty 11.25 x 25 (28.6 cm x 63.5 cm) STND rims, six singles in front, six duals in rear, making a total of eighteen wheels.

**TIRES:** Eighteen 16.00 x 25 (40.6cm x 63.5cm) — 24 ply rating.

**FUEL CAPACITY:** 100 gallons (378 Liters).

**FENDERS:** Fenders are of the combination fender-deck design, providing a flat full width, full length walkway.

**SERVICE BRAKES:** Air brakes on all wheels. Front brake shoes are 20¼" (51.4cm) diameter x 5" (12.7cm) wide. Rear brake shoes are 20¼" (51.4cm) diameter x 7" (17.8cm) wide.

**AUXILIARY BRAKES:** Spring set, air released brake cylinders on rear axles lock brakes in case of air loss. Emergency release valve on dash allows some maneuvering after air loss. Auxiliary valve sets brakes for parking.

**OPERATING BRAKE:** A hand-operated air valve applies the service brakes when required for holding the machine when operating.

**STEERING:** Power assisted steering, with individual double acting cylinders on each front axle. The cylinders are powered by an engine driven hydraulic pump and metered by a control valve built into the draglink.

**MAIN TRANSMISSION:** Allison #5960 CLBT six speeds forward and one reverse. Transmission is equipped with TC 690 converter and hydraulic retarder.

**AUXILIARY TRANSMISSION:** Spicer P1241-C with 3 speeds giving the carrier 18 speeds forward and 3 reverse.

**CAB:** One-man type, with visor type top. All steel construction, amply ventilated for summer or winter. Adjustable seat. Instrument panel contains speedometer, odometer, ammeter, oil pressure gauge, water temperature gauge, fuel gauge and pilot lights, air gauge, converter oil temperature gauge, light switches, ignition and starter switch.

**BUMPER COUNTERWEIGHT:** One piece, required when using long boom or boom and jib combination. See "boom and jib data."

**MISCELLANEOUS ACCESSORIES:** Inflating hose and tire pressure gauge, mast rest, rear view mirrors, two beam headlights, stop and tail light, front, middle and rear marker lights and parking lights, electric directional signals, electric windshield wipers, electric dual horn, fender flaps, heater and defrosters.

## POWER PLANT DATA (ROTATOR)

Make	Model	Fuel	Cyl.	Bore & Stroke	Net Horsepower
Cummins	NTA 855C420	Diesel	6	5 1/2" x 6" (13.97cm x 15.24cm)	420 @ 2300

## CLUTCH AND BRAKE DATA

Function	CLUTCHES				BRAKES			
	Type	Width	Diameter	Area	Type	Width	Diameter	Area
Main Hoist	Band	4 1/2" (11.43cm)	43" (109.2cm)	518 In <sup>2</sup> (3342cm <sup>2</sup> )	Band	6" (15.24cm)	50" (127cm)	748 In <sup>2</sup> (4826cm <sup>2</sup> )
Auxiliary Hoist	Band	4 1/2" (11.43cm)	43" (109.2cm)	518 In <sup>2</sup> (3342cm <sup>2</sup> )	Band	6" (15.24cm)	50" (127cm)	748 In <sup>2</sup> (4826cm <sup>2</sup> )
Boom Hoist	Band	—	—	—	Band	4" (101.6cm)	15" (38.1cm)	145 In <sup>2</sup> (935cm <sup>2</sup> )
Swing Brake	Band	—	—	—	Band	4" (10.16cm)	26" (66cm)	258 In <sup>2</sup> (1665cm <sup>2</sup> )
Third Drum	Band	4 1/2" (11.43cm)	43" (109.2cm)	518 In <sup>2</sup> (3342cm <sup>2</sup> )	Band	6" (15.24cm)	50" (127cm)	748 In <sup>2</sup> (4826cm <sup>2</sup> )

## LAGGING DATA

Lagging Location	Use	Drum P.D.	Drum Width	Type	Eff. Capy. 1st Layer	Maximum Capy. Layers	Wire Rope Size
Boom Hoist Shaft	Boom Hoist	15" (38.1cm)	14-7/16" (36.7cm)	Grooved	90' (27.4M)	1002' (305.4M) in 7	1" (25.4mm)
Rear Hoist Shaft	Main Hoist	24" (61cm)	38" (96.5cm)	Grooved	191' (58.2m)	1,796' (547.4M) in 7	1-1/8" (28.6mm)
Right Hand Front Hoist Shaft	Auxiliary Hoist	24" (61cm)	17 1/2" (44.5cm)	Grooved	79' (24.1M)	658' (200.6M) in 6	1-1/8" (28.6mm)
Left Hand Front Hoist Shaft	Third Drum	24" (61cm)	17 1/2" (44.5cm)	Grooved	79' (24.1M)	658' (200.6m) in 6	1-1/8" (28.6mm)
Front Hoist Shaft	Full Width Front Drum	24" (61cm)	38" (96.5cm)	Grooved	191' (58.2M)	1,796' (547.4M) in 7	1-1/8" (28.6mm)

## MISCELLANEOUS DATA (ROTATOR)

Swing Speed	2.1 R.P.M.
Fuel Capacity	200 Ga. (757 Liters)

## DESCRIPTIVE DATA (ROTATING ASSEMBLY)

### Basic, Standard and Optional Components

**ROTATING BASE:** Fabricated with integral machine frames using alloy steel for strong, lightweight construction. Separate fuel tank.

**SHAFTING:** All shafting made from heat treated alloy steel. Involute splines used extensively.

**SWING:** Separate gear box provides power for swing. This assembly easily removed for service. Driven by hydraulic motor controlled by special fine-metering valve for precise swing control. Vertical swing shaft and pinion is one piece forging. Gearing runs in oil.

**SWING BRAKE:** A band brake at top of swing assembly is spring set, air release controllable by the operator. Also a swing snub operates this band brake for momentarily holding while setting loads.

**SWING LOCK:** A pawl engages in slots at the bottom of the swing brake housing and can be used as a upper unit parking lock.

**FRONT DRUM SHAFT:** Supported by self-aligning anti-friction bearings. Can have either two drums or a full width single drum. All drums are mounted on anti-friction bearings.

**REAR DRUM SHAFT:** Supported by self-aligning anti-friction bearings. A full width single drum for maximum rope capacity is mounted on anti-friction bearings.

**HOIST CLUTCHES:** Air actuated — internal expanding friction band type.

**HOIST BRAKES:** External contracting friction band type. Spring set — air release parking feature with an air actuated, foot pedal applied, operating brake. Separate brakes for each drum.

**HOIST DRUM RATCHET:** Each drum has a spring set, air release ratchet that's controllable by the operator.

**HOIST POWER:** Full hydraulic — hydraulic motor powers a selectable transmission to give two speed ranges, which in turn, thru a gear train, powers both front and rear drum shafts. The hydraulic motor is controlled by varying the flow of oil from the hoist pump which give infinite speed control in both raising and lowering directions. This provides Power Load Lowering on all drums with the same speed and precision as raising a load. Gearing runs in oil.

**BOOM HOIST:** Is a self-contained unit that pins to the rotating base. Two hydraulic motors, through a gear reduction, drive two drums keyed to a common shaft. Two external contracting friction band brakes are spring set — air release type that release automatically when powering up or down and set automatically when boom hoisting operation stops. The hydraulic motors are controlled by varying the flow from the boom hoist pump. This gives infinite speed control both raising and lowering the boom.

**BOOM HOIST RATCHET:** Ratchet on the drum shaft is spring set — air release and controllable by the operator.

**BOOMS AND JIBS:** Extensible type with tubular T1 chords — refer to boom and jib data.

**BOOM STOP:** Telescopic with automatic air cut-off of boom hoisting power. Stops are attached to the boom base or to the mast when using it as a boom.

**BOOM SUSPENSION:** 14-part line from gantry to mast. Slings from mast to boom point with mid-point suspension when boom length dictates.

**COUNTERWEIGHT:** Three piece — cast iron hooked on at rear of rotating frame. Readily removable for weight reduction.

**COUNTERWEIGHT REMOVAL EQUIPMENT:** Using links and gantry hydraulic cylinders, the counterweights can be removed or added in two sections rapidly and smoothly.

**GANTRY:** Back hitch type with the rear legs made up of two hydraulic cylinders and telescopic sections. Can be pinned up at maximum height for working and pinned down at cab height for traveling.

**MACHINERY CAB:** Steel construction with doors and hatches conveniently located for easy service of engine and machinery. All doors can be latched open or closed. Louvers are adjustable to provide proper heating or cooling to engine and hydraulic components.

**OPERATOR'S POD:** Swings in for shipping — nothing has to be disconnected or removed — and swings out for working. Hydraulically controlled from operator's seat or from ground. All steel construction, full 360° vision with rubber-set windows. Front and right hand windows can be opened. Can be heated, air conditioned, and is sound conditioned for operator's comfort.

**SWING CIRCLE:** Upper rotating unit mounts on a roller bearing swing circle that has internal cut teeth which mate with the swing pinion. Circulating oil lubricates the gear teeth. The inner half of the swing circle mounts to the truck by extended tangs that fit into slots in the truck. Adjustable wedges lock these tangs in place, affording easy and rapid removal of the upper from the truck.

**GEARING:** Note — All gears are fully enclosed and run in oil.

**POWER TAKE-OFF:** Engine driven pump drive gear box that has a master clutch disconnect. Each function, swing, boom hoist, hoist, and propel (for crawler version) has a separate pump for independent control.

**HYDRAULIC SYSTEM:** Steel tubing and hose connect the pumps and motors. The tank is equipped with filters, strainers, and level indicator. An oil cooler is mounted in front of the engine radiator.

**OPTIONAL INDEPENDENT DRIVE FRONT DRUM:** This has a separate hydraulic pump and motor to power the front drum with all the control features of the rear drum power. This offers more versatility to the hoisting function.

MAXIMUM BOOM OR BOOM PLUS JIB THAT CAN BE HANDLED HORIZONTALLY			
OVER REAR ON STANDARD AND REAR AUXILIARY OUTRIGGERS		OVER SIDE ON STANDARD OUTRIGGERS	
Less Bumper Counterweight	With Bumper Counterweight	Less Bumper Counterweight	With Bumper Counterweight
330' (100.58M)	330' (100.58M)	300' (91.44M)	310' (94.49M)
310' (94.49M) + 40' (12.19M)	330' (100.58M) + 40' (12.19M)	270' (82.30M) + 40' (12.19M)	270' (82.30M) + 40' (12.19M)
300' (91.44M) + 50' (15.24M)	330' (100.58M) + 50' (15.24M)	240' (73.15M) + 50' (15.24M)	240' (73.15M) + 50' (15.24M)
290' (88.39M) + 60' (18.29M)	320' (97.54M) + 60' (18.29M)	240' (73.15M) + 60' (18.29M)	240' (73.15M) + 60' (18.29M)
290' (88.39M) + 70' (21.34M)	320' (97.54M) + 70' (21.34M)	240' (73.15M) + 70' (21.34M)	240' (73.15M) + 70' (21.34M)
290' (88.39M) + 80' (24.38M)	310' (94.49M) + 80' (24.38M)	230' (70.10M) + 80' (24.38M)	230' (70.10M) + 80' (24.38M)
280' (85.34M) + 90' (27.43M)	310' (94.49M) + 90' (27.43M)	230' (70.10M) + 90' (27.43M)	230' (70.10M) + 90' (27.43M)
280' (85.34M) + 100' (30.48M)	310' (94.49M) + 100' (30.48M)	220' (67.06M) + 100' (30.48M)	220' (67.06M) + 100' (30.48M)

OVER REAR ON STANDARD OUTRIGGERS		OVER SIDE WITH AUXILIARY AND STANDARD OUTRIGGERS
Less Bumper Counterweight	With Bumper Counterweight	With Bumper Counterweight
330' (100.58M)	330' (100.58M)	320' (97.54M)
280' (85.34M) + 40' (12.19M)	310' (94.49M) + 40' (12.19M)	280' (85.34M) + 40' (12.19M)
270' (82.30M) + 50' (15.24M)	300' (91.44M) + 50' (15.24M)	280' (85.34M) + 50' (15.24M)
270' (82.30M) + 60' (18.29M)	300' (91.44M) + 60' (18.29M)	270' (82.30M) + 60' (18.29M)
270' (82.30M) + 70' (21.34M)	290' (88.39M) + 70' (21.34M)	270' (82.30M) + 70' (21.34M)
240' (73.15M) + 80' (24.38M)	290' (88.39M) + 80' (24.38M)	270' (82.30M) + 80' (24.38M)
240' (73.15M) + 90' (27.43M)	280' (85.34M) + 90' (27.43M)	250' (76.20M) + 90' (27.43M)
240' (73.15M) + 100' (30.48M)	280' (85.34M) + 100' (30.48M)	240' (73.15M) + 100' (30.48M)

## BOOM DATA

Component	Light Duty Boom	Heavy Duty Boom
Point Shaft	1,100 Lbs. ( 499kg.)	2,600 Lbs. (1179kg.)
30' (13.61M) Point Section	5,160 Lbs. (2341kg.)	6,890 Lbs. (3125kg.)
40' (12.19M)	7,725 Lbs. (3504kg.)	7,725 Lbs. (3504kg.)
Basic Pendants Base Section	800 Lbs. ( 363kg.)	970 Lbs. ( 440kg.)
10' (3.05M) Extension With Pendants	1,825 Lbs. ( 828kg.)	1,895 Lbs. ( 860kg.)
20' (6.10M) Extension With Pendants	2,900 Lbs. (1315kg.)	2,975 Lbs. (1349kg.)
40' (12.19M) Extension With Pendants	4,995 Lbs. (2266kg.)	5,095 Lbs. (2311kg.)
40' (12.19M) Mast	8,275 Lbs. (3754kg.)	8,275 Lbs. (3754kg.)
Boom Stop	1,365 Lbs. ( 619kg.)	1,365 Lbs. ( 619kg.)
Midpoint Suspension 170' (51.82M) Boom to 230' (70.10M) Boom	1,050 Lbs. ( 476kg.)	1,050 Lbs. ( 476kg.)
Midpoint Suspension 240' (73.15M) Boom to 260' (79.25M) Boom	1,190 Lbs. ( 540kg.)	1,190 Lbs. ( 540kg.)
Midpoint Suspension 270' (82.30M) Boom and 330' (100.58M) Boom	1,420 Lbs. ( 644kg.)	1,420 Lbs. ( 644kg.)
Boom Hoist Wire Rope	2,460 Lbs. (1116kg.)	2,460 Lbs. (1116kg.)
Main Hoist Wire Rope	3,750 Lbs. (1702kg.)	3,750 Lbs. (1702kg.)
Auxiliary Hoist Wire Rope	2.46 Lbs./Ft. (3.66kg./M)	2.46 Lbs./Ft. (3.66kg./M)
300 Ton Hookblock	5,400 Lbs. (2449kg.)	5,400 Lbs. (2449kg.)
40 Ton Hookblock	1,100 Lbs. ( 499kg.)	1,100 Lbs. ( 499kg.)
20 Ton Ball and Hook	800 Lbs. ( 363kg.)	800 Lbs. ( 363kg.)

Boom Make-up: The first 70' (21.34M) of boom extensions adjacent to the boom base must be 6" (152mm) O.D. tubing; all remaining extensions should be 5 1/4" (146mm) O.D. tube. The heavy duty boom point section with heavy duty point shaft is to be installed on booms 70' (21.34M) thru 250' (76.20M); the light duty boom point with light duty point shaft is to be installed on booms 260' (79.25M) thru 330' (100.58M).



Component	Heavy Duty Jib
Basic Jib Length	40' (12.19M)
Maximum Length	100' (30.48M)
Basic Jib	5,040 Lbs. (2286kg.)
10' (3.05M) Extension With Pendant	660 Lbs. ( 299kg.)
20' (6.10M) Extension with Pendant	1,005 Lbs. ( 456kg.)

**BOOM AND JIB DATA**

JIB	
Basic Length	40' (12.19M)
Max. Length	100' (30.48M)
Section	46" x 52" (1.7M x 1.32M)
Chord Size	2½" (6.35cm) O.D. Tube
Chord Material	100,000 P.S.I. (68944 N/cm <sup>2</sup> )
Quan. Sheaves at Point	One (1)
P.D. Point Sheave	21-3/8" (54.3cm) P.D.
Capacity	
40' (12.19M)	40 Tons (36.3 Tons)
50' (15.24M)	31½ Tons (28.6 Tons)
60' (18.29M)	24 Tons (21.8 Tons)
70' (21.34M)	20 Tons (18.1 Tons)
80' (24.38M)	18 Tons (16.3 Tons)
90' (27.43M)	15½ Tons (14.1 Tons)
100' (30.48M)	13½ Tons (12.2 Tons)

BOOM, TUBULAR PIN CONNECTED	
Type Service	Crane
Suspension	Mast and Pendants
Gantry	High Back Hitch
Mast	40' (12.19M)
Quan. Sheaves at Point Shaft	Light Duty Point 3
	Heavy Duty Point 7
Dia. Point Sheaves	21-3/8" (54.3cm) P.D. — 1-1/8" (29mm) Dia. Wire Rope
Basic Boom Length	70' (21.34M)
Chord Material	100,000 P.S.I. (68944 N/cm <sup>2</sup> ) Steel
Extensions	10', 20', and 40' Straight (3.05M, 6.10M, and 12.19M)
Section	90" x 108" (2.29M x 2.74M)
Max. Boom Length	330' (100.58M)
Chord Dimensions	Light Duty 5-3/4" O.D. (146mm) Tube
	Heavy Duty 6" O.D. (152mm) Tube

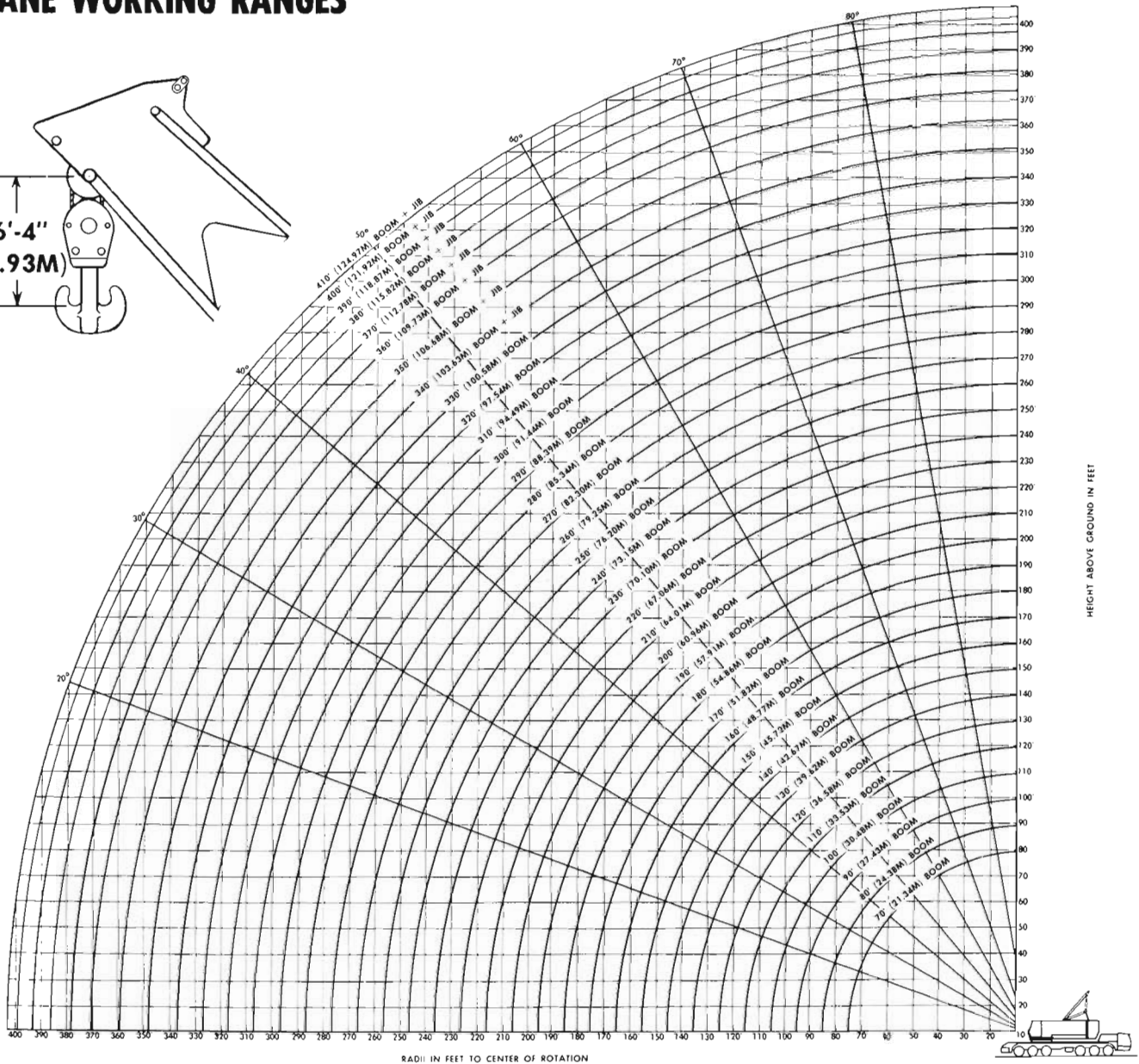
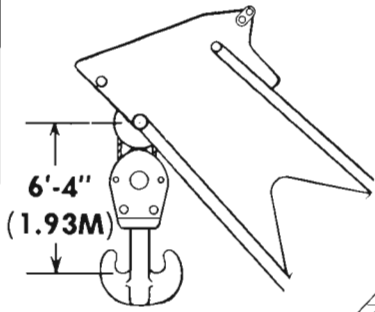
# HOIST LINE DATA

Typical Hoist Performance Both Front & Rear Hoist Shafts		
Speed Range	Line Pull	Line Speed
1st	40,000 Lbs. (18144kg.)	180 F.P.M. (54.86M.P.M.)
2nd	20,000 Lbs. (9072kg.)	350 F.P.M. (106.68M.P.M.)

Optional Independent Front Drive Hoist Typical Hoist Performance Front Hoist Only	
Line Pull	Line Speed
25,000 Lbs. (11340kg.)	185 F.P.M. (56.39 M.P.M.)

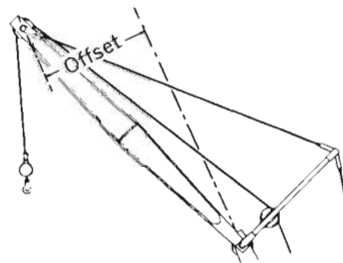


# CRANE WORKING RANGES



WIRE ROPE REEVING FOR HOOK BLOCKS	
Parts of Line Rope Load	Parts of Line Required
To 40,000 Lbs. (18144kg.)	1
Over 40,000 Lbs. (18144kg.)	2
Over 80,000 Lbs. (36288kg.)	3
Over 120,000 Lbs. (54432kg.)	4
Over 160,000 Lbs. (72576kg.)	5
Over 200,000 Lbs. (90720kg.)	6
Over 240,000 Lbs. (108864kg.)	7
Over 280,000 Lbs. (127008kg.)	8
Over 320,000 Lbs. (145152kg.)	9
Over 360,000 Lbs. (163296kg.)	10
Over 400,000 Lbs. (181440kg.)	11
Over 440,000 Lbs. (199584kg.)	12
Over 480,000 Lbs. (217728kg.)	13
Over 520,000 Lbs. (235872kg.)	14
Over 560,000 Lbs. (254016kg.)	15

Required 1-1/8" (29mm) Dia. Wire Rope having a minimum breaking strength of 143,000 lbs. (64865kg.).



JIB DATA			
Jib Length	Rating	Offset	Effective Weight
40' (12.19M)	40 Tons (36.3 Tons)	13'-6" (4.11M)	4,600 Lbs. (2087kg.)
50' (15.24M)	31½ Tons (28.6 Tons)	17'-4" (5.28M)	5,450 Lbs. (2472kg.)
60' (18.29M)	24 Tons (21.8 Tons)	20'-7" (6.27M)	6,350 Lbs. (2880kg.)
70' (21.34M)	20 Tons (18.1 Tons)	24'-7" (7.49M)	6,975 Lbs. (3164kg.)
80' (24.38M)	18 Tons (16.3 Tons)	26'-10" (8.18M)	8,025 Lbs. (3640kg.)
90' (27.43M)	15½ Tons (14.1 Tons)	31'-10" (9.70M)	8,775 Lbs. (3980kg.)
100' (30.48M)	13½ Tons (12.2 Tons)	33'-3" (10.13M)	10,000 Lbs. (4536kg.)

Jib capacities are approximately the same as Boom Capacities at any given radius, but not to exceed the rating listed. Effective jib weight to be subtracted from Boom capacity chart if load is raised on Boom point when Jib is assembled on Boom.

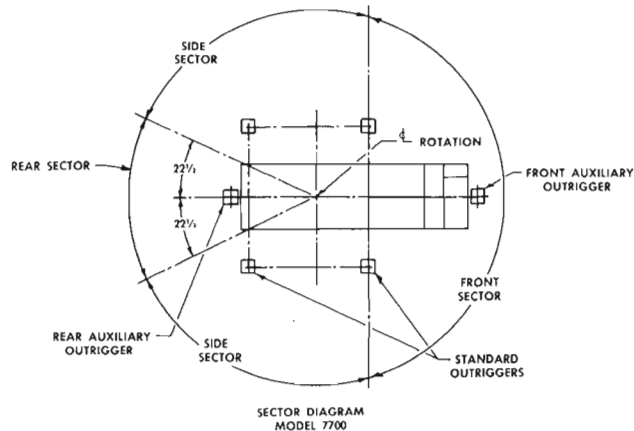


MAXIMUM MAIN COUNTERWEIGHT — 85,000 LBS.  
 MAXIMUM BUMPER COUNTERWEIGHT — 21,600 LBS.

Boom				Capacity	Capacities Below Apply To Jibs — See Jib Data											
L	R	A	H		Boom Plus Jib		Capacity		Boom Plus Jib		Capacity		Boom Plus Jib		Capacity	
300'	60'	79.8	303.6'	* 124,800	340' (300' + 40')	80'	* 80,000	360' (320' + 40')	90'	72,200	380' (330' + 50')	90'	* 63,000	400' (310' + 90')	110'	* 31,000
	70'	77.8	301.5'	101,600		90'	72,800		100'	60,800		100'	62,100		120'	* 31,000
	80'	75.9	299.1'	82,700		100'	61,400		110'	51,800		110'	52,900		130'	* 31,000
	90'	73.9	296.4'	68,800		110'	52,400		120'	44,500		120'	45,400		140'	* 31,000
	100'	71.9	293.2'	58,100		120'	45,100		130'	38,400		130'	39,200		150'	* 31,000
	110'	69.9	289.7'	49,600		130'	39,100		140'	33,300		140'	34,000		160'	29,300
	120'	67.8	285.7'	42,700		140'	34,000		150'	28,900		150'	29,500		170'	25,800
	130'	65.7	281.4'	37,000		150'	29,700		160'	25,700		160'	25,700		180'	22,700
	140'	63.6	276.6'	32,300		160'	25,900		170'	21,900		170'	22,300		190'	20,000
	150'	61.4	271.3'	28,200		170'	22,600		180'	19,000		180'	19,400		200'	17,600
	160'	59.2	265.5'	24,700		180'	19,800		190'	16,500		190'	16,800		210'	15,400
	170'	57.0	259.2'	21,600		190'	17,200		200'	14,200		200'	14,500		220'	13,400
180'	54.7	252.3'	18,900	200'	15,000	210'	12,100	210'	12,400	230'	11,600					
190'	52.3	244.8'	16,500	210'	12,900	220'	10,300	220'	10,500	240'	10,000					
200'	49.8	236.6'	14,400	220'	11,100	230'	8,400	230'	8,600	250'	8,400					
210'	47.2	227.7'	12,400	230'	9,300	240'	6,700	240'	6,800	260'	6,900					
220'	44.6	217.9'	* 10,700	240'	7,600	250'	5,100	250'	5,200	270'	4,300					
230'	41.8	207.1'	* 8,900	250'	6,100	260'	4,600			280'	3,300					
240'	38.8	195.2'	* 6,900													
250'	35.6	181.8'	* 5,300													
260'	32.1	166.7'	* 4,200													
310'	70'	78.2	311.8'	101,500	350' (310' + 40')	80'	* 80,000	370' (330' + 40')	90'	72,700	390' (320' + 70')	100'	* 40,000	410' (310' + 100')	110'	* 27,000
	80'	76.3	309.5'	82,600		90'	72,700		100'	60,700		100'	62,100		120'	* 27,000
	90'	74.4	306.8'	68,700		100'	61,300		110'	51,700		110'	52,900		130'	* 27,000
	100'	72.5	303.7'	58,000		110'	52,300		120'	44,300		120'	45,400		140'	* 27,000
	110'	70.5	300.3'	49,500		120'	45,000		130'	38,200		130'	39,200		150'	* 27,000
	120'	68.6	296.5'	42,600		130'	39,000		140'	33,100		140'	34,000		160'	29,300
	130'	66.6	292.3'	36,900		140'	33,900		150'	28,800		150'	31,300		170'	26,100
	140'	64.5	287.7'	32,200		150'	29,500		160'	25,000		160'	27,400		180'	22,600
	150'	62.4	282.7'	28,100		160'	25,800		170'	21,700		170'	24,000		190'	20,300
	160'	60.3	277.1'	24,600		170'	22,500		180'	18,800		180'	21,000		200'	17,800
	170'	58.2	271.1'	21,500		180'	19,700		190'	16,200		190'	18,300		210'	15,600
	180'	56.0	264.5'	18,800		190'	17,100		200'	13,900		200'	15,900		220'	13,600
190'	53.7	257.4'	16,400	200'	14,800	210'	11,900	210'	13,800	230'	11,800					
200'	51.4	249.7'	14,300	210'	12,800	220'	10,000	220'	11,800	240'	10,200					
210'	48.9	241.2'	12,300	220'	11,000	230'	8,100	230'	10,100	250'	8,600					
220'	46.4	232.0'	* 10,600	230'	9,200	240'	6,400	240'	8,300	260'	7,100					
230'	43.8	221.9'	* 8,800	240'	7,500	250'	5,900	250'	6,700	270'	5,600					
240'	41.0	210.8'	* 6,800	250'	5,900	260'	4,400	260'	5,200	280'	4,300					
250'	38.1	198.6'	* 5,200													
260'	35.0	185.0'	* 4,100													

**THIS CHART IS BASED UPON:**

- Capacities marked by \* are based upon structural limitations of the machine; all others do not exceed 85% of tipping in the least stable direction.
- When the machine is equipped with standard outriggers and front auxiliary outriggers, full 360° operation of the crane is permitted. However, when operating the crane in the front sector, the load radius shall not be less than 35'. (Refer to diagram below.)
- Machine to be leveled on a firm solid support; shock and side loads are to be prevented.
- When lifting a load, the outriggers must be fully extended horizontally, the outrigger floats down, and all tires free of the ground.
- All hook blocks, lifting tackle and jib attachments are considered a part of the load to be lifted.
- Exceeding these loads or altering the counterweight nullifies all warranties.
- Gantry must be in fully raised position when handling booms or boom plus jib combinations.
- When the machine is equipped with standard outriggers, over the side is the least stable direction.
- Load ratings shown on this chart make no allowance for such factors as the effect of side loads, wind, ground conditions, and operating speeds. The operator therefore shall reduce loads in order to take these factors into account.



Capacities Per S.A.E. Code J-765  
 Class Designation Per U.S. Dept. of Commerce Standards.

L = Boom Length.  
 R = Load Radius From Centerline of Rotation.  
 H = Height of Boom Point Shaft Above Ground  
 A = Boom Angle Above Horizontal.

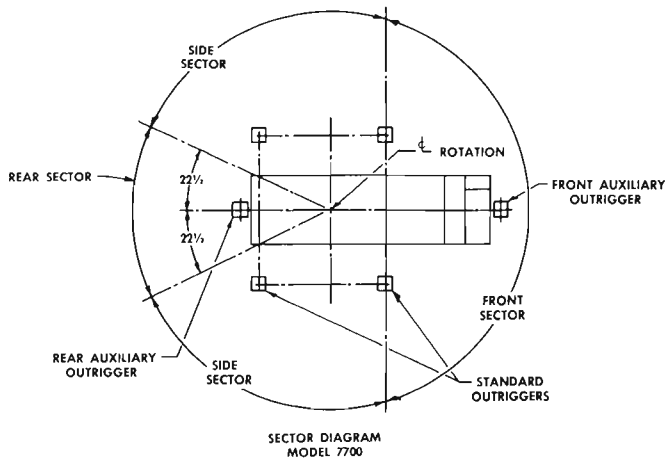


MAXIMUM MAIN COUNTERWEIGHT — 38,556Kg.  
 MAXIMUM BUMPER COUNTERWEIGHT — 9,798Kg.

BOOM				CAPACITY	CAPACITIES BELOW APPLY TO JIBS — SEE JIB DATA													
L	R	A	H		BOOM PLUS JIB			BOOM PLUS JIB			BOOM PLUS JIB			BOOM PLUS JIB				
				Length	Radius	CAPACITY	Length	Radius	CAPACITY	Length	Radius	CAPACITY	Length	Radius	CAPACITY			
91.4M Midpoint Location 48.8M Midpoint Sag 43.2cm	18.3	79.8	92.5	* 56,600	24.4	* 36,200	103.6M (91.4M + 12.2M)	35	22,000	109.7M (97.5M + 12.2M)	41	18,800	115.8M (100.6M + 15.2M)	38	19,200	121.9M (95.5M + 27.4M)	44	* 14,000
	20	78.7	92.1	50,400														
	23	76.8	91.5	41,100														
	26	74.8	90.7	33,900														
	29	72.9	89.8	28,500														
	32	70.9	88.8	24,300														
	35	68.9	87.7	20,900														
	38	66.8	86.4	18,000														
	41	64.8	85.0	15,700														
	44	62.7	83.5	13,800														
	47	60.5	81.9	12,000														
	50	58.3	80.1	10,600														
	53	56.1	78.1	9,300														
	56	53.8	76.0	8,100														
	59	51.4	73.7	7,100														
62	48.9	71.2	6,200															
65	46.4	68.4	5,300															
68	43.7	65.4	* 4,600															
71	40.9	62.0	* 3,700															
74	37.9	58.3	* 2,900															
77	34.7	54.2	* 2,200															
79.2	32.1	50.7	* 1,900															
94.5M Midpoint Location 48.8M Midpoint Sag 43.2cm	21.3	78.2	95.0	46,000	24.4	* 36,200	106.7M (94.5M + 12.2M)	35	22,000	112.8M (100.6M + 12.2M)	41	16,200	118.8M (97.5M + 21.3M)	44	13,400	125.0M (94.5M + 30.5M)	44	* 12,200
	23	77.2	94.6	41,000														
	26	75.3	93.8	33,800														
	29	73.4	93.0	28,500														
	32	71.5	92.0	24,200														
	35	69.6	90.9	20,850														
	38	67.6	89.7	18,000														
	41	65.6	88.4	15,700														
	44	63.6	87.0	13,700														
	47	61.6	85.4	12,000														
	50	59.5	83.7	10,500														
	53	57.3	81.8	9,200														
	56	55.1	79.8	8,100														
	59	52.9	77.6	7,000														
	62	50.5	75.2	6,100														
65	48.1	72.6	5,300															
68	45.6	69.7	4,500															
71	43.0	66.6	3,700															
74	40.2	63.2	2,800															
77	37.3	59.4	* 2,200															
79.2	35.0	56.3	* 1,800															
97.5M Midpoint Location 48.8M Midpoint Sag 43.2cm	21.3	78.6	98.1	* 45,300	24.4	* 36,200	110.6M (97.5M + 13.1M)	35	22,000	116.9M (103.8M + 13.1M)	41	16,200	124.9M (101.6M + 23.3M)	44	13,400	131.1M (97.5M + 33.6M)	44	* 12,200
	23	77.6	97.7	40,800														
	26	75.8	97.0	33,800														
	29	74.0	96.2	28,400														
	32	72.1	95.2	24,200														
	35	70.2	94.2	20,800														
	38	68.4	93.0	18,000														
	41	66.4	91.8	15,600														
	44	64.5	90.4	13,600														
	47	62.5	88.9	11,900														
	50	60.5	87.2	10,400														
	53	58.5	85.4	9,100														
	56	56.4	83.5	7,900														
	59	54.2	81.4	6,900														
	62	52.0	79.1	6,000														
65	49.7	76.6	5,200															
68	47.4	73.9	4,400															
71	44.9	71.0	3,600															
74	42.3	67.8	* 2,800															
77	39.6	64.3	* 2,100															
79.2	37.5	61.5	* 1,800															
100.6M Midpoint Location 48.8M Midpoint Sag 43.2cm	21.3	78.9	101.2	* 44,000	24.4	* 36,200	108.6M (95.5M + 13.1M)	35	22,000	114.7M (101.6M + 13.1M)	41	16,200	122.0M (97.5M + 24.5M)	44	13,400	127.0M (94.5M + 32.5M)	44	* 12,200
	23	78.0	100.8	* 40,400														
	26	76.2	100.1	33,800														
	29	74.5	99.3	28,300														
	32	72.7	98.4	24,100														
	35	70.9	97.4	20,600														
	38	69.0	96.3	17,800														
	41	67.2	95.1	15,400														
	44	65.3	93.7	13,400														
	47	63.4	92.3	11,700														
	50	61.5	90.7	10,200														
	53	59.5	89.0	8,900														
	56	57.5	87.1	7,800														
	59	55.5	85.1	6,800														
	62	53.4	82.9	5,800														
65	51.2	80.6	5,000															
68	48.9	78.1	4,200															
71	46.6	75.3	3,400															
74	44.2	72.3	2,700															
77	41.7	69.1	* 2,000															
79.2	39.7	66.4	* 1,600															

**This Chart Is Based Upon:**

- Capacities marked by \* are based upon structural limitations of the machine; all others do not exceed 85% of tipping in the least stable direction.
- When the machine is equipped with standard outriggers and front auxiliary outriggers, full 360° operation of the crane is permitted. However, when operating the crane in the front sector, the load radius shall not be less than 10.6 (Refer to diagram below.)
- Machine to be leveled on a firm solid support; shock and side loads are to be prevented.
- When lifting a load, the outriggers must be fully extended horizontally, the outrigger floats down, and all tires free of the ground.
- All hook blocks, lifting tackle and jib attachments are considered a part of the load to be lifted.
- Exceeding these loads or altering the counterweight nullifies all warranties.
- Cantry must be in fully raised position when handling booms or boom plus jib combinations.
- When the machine is equipped with standard outriggers, over the side is the least stable direction.
- Load ratings shown on this chart make no allowance for such factors as the effect of side loads, wind, ground conditions, and operating speeds. The operator therefore shall reduce loads in order to take these factors into account.



Capacities Per S.A.E. Code J-765  
 Class Designation Per U.S. Dept. of Commerce Standards

L = Boom Length (in Meters)  
 R = Load Radius From Centerline of Rotation (in Meters)  
 H = Height of Boom Point Shaft Above Ground (in Meters)  
 A = Boom Angle Above Horizontal (in Degrees)





MAXIMUM MAIN COUNTERWEIGHT 85,000 LBS.  
 MAXIMUM BUMPER COUNTERWEIGHT 21,600 LBS.

BOOM				CAPACITY	Capacities Below Apply to Jibs — See Jib Data											
L	R	A	H		BOOM PLUS JIB		CAPACITY		BOOM PLUS JIB		CAPACITY		BOOM PLUS JIB		CAPACITY	
				Length	Radius	Length	Radius	Length	Radius	Length	Radius	Length	Radius	Length	Radius	
300'	60'	79.8	303.6'													
	70'	77.8	301.5'													
	80'	75.9	299.1'													
	90'	73.9	296.4'													
	100'	71.9	293.2'													
	110'	69.9	289.7'													
	120'	67.8	285.7'													
	130'	65.7	281.4'													
	140'	63.6	276.6'													
	150'	61.4	271.3'													
	Midpoint Location 160'	160'	59.2	265.5'												
	170'	57.0	259.2'													
	180'	54.7	252.3'													
	Midpoint Sag 17"	190'	52.3	244.8'												
	200'	49.8	236.6'													
	210'	47.2	227.7'													
	220'	44.6	217.9'													
230'	41.8	207.1'														
240'	38.8	195.2'														
250'	35.6	181.8'														
260'	32.1	166.7'														

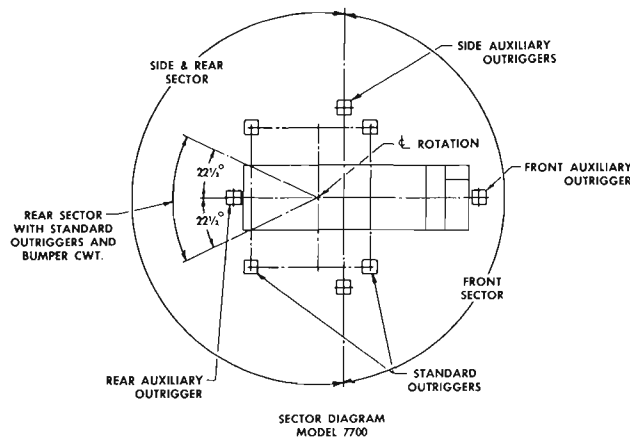
310'	70'	78.2	311.8'			
	80'	76.3	309.5'			
	90'	74.4	306.8'			
	100'	72.5	303.7'			
	110'	70.5	300.3'			
	120'	68.6	296.5'			
	130'	66.6	292.3'			
	140'	64.5	287.7'			
	150'	62.4	282.7'			
	Midpoint Location 160'	160'	60.3	277.1'		
	170'	58.2	271.1'			
	180'	56.0	264.5'			
	190'	53.7	257.4'			
	Midpoint Sag 17"	200'	51.4	249.7'		
	210'	48.9	241.2'			
	220'	46.4	232.0'			
	230'	43.8	221.9'			
240'	41.0	210.8'				
250'	38.1	198.6'				
260'	35.0	185.0'				

320'	70'	78.6	322.0'			
	80'	76.8	319.8'			
	90'	74.9	317.2'			
	100'	73.1	314.2'			
	110'	71.2	310.9'			
	120'	69.3	307.3'			
	130'	67.3	303.2'			
	140'	65.4	298.8'			
	Midpoint Location 160'	160'	63.4	293.9'		
	170'	61.3	288.6'			
	180'	59.3	282.8'			
	190'	57.2	276.6'			
	Midpoint Sag 17"	200'	55.0	269.8'		
	210'	52.8	262.4'			
	220'	50.5	254.4'			
	230'	48.1	245.7'			
	240'	45.6	236.2'			
250'	43.1	225.9'				
260'	40.4	214.5'				

330'	70'	78.9	332.2'			
	80'	77.2	330.0'			
	90'	75.4	327.5'			
	100'	73.6	324.7'			
	110'	71.8	321.5'			
	120'	69.9	318.0'			
	130'	68.1	314.1'			
	140'	66.2	309.8'			
	Midpoint Location 160'	160'	64.2	305.1'		
	170'	62.3	300.0'			
	180'	60.3	294.5'			
	190'	58.3	288.4'			
	Midpoint Sag 17"	200'	56.2	281.9'		
	210'	54.1	274.9'			
	220'	51.9	267.3'			
	230'	49.7	259.0'			
	240'	47.3	250.1'			
250'	44.9	240.3'				
260'	42.4	229.7'				

**THIS CHART IS BASED UPON:**

- Capacities marked by \* are based upon structural limitations of the machine; all others do not exceed 85% of tipping in the least stable direction.
- When the machine is equipped with standard outriggers, auxiliary outriggers (side, front, and rear), and bumper counterweight, full 360° operation of the crane is permitted. However, when operating the crane in the front sector, the load radius shall not be less than 35'. (Refer to diagram below.)
- When the machine is equipped with standard outriggers only and bumper counterweight, operation directly over the rear of the carrier 22½" to either side of centerline of the carrier is permitted. (As defined in diagram below.)
- Machine to be leveled on a firm solid support; shock and side loads are to be prevented.
- When lifting a load, the outriggers must be fully extended horizontally, the outrigger floats down, and all tires free of the ground.
- All hook blocks, lifting tackle and jib attachments are considered a part of the load to be lifted.
- Exceeding these loads or altering the counterweight nullifies all warranties.
- Gantry must be in fully raised position when handling booms or boom plus jib combinations.
- When the machine is equipped with standard and auxiliary outrigger (side, front, and rear), the sector between the side auxiliary outrigger and the front standard outrigger is the least stable direction.
- Load ratings shown on this chart make no allowance for such factors as the effect of side loads, wind, ground conditions, and operating speeds. The operator therefore shall reduce load ratings to take these factors into account.



Capacities Per S.A.E. Code J-765  
 Class Designation Per U.S. Dept. of Commerce Standards.

L = Boom Length  
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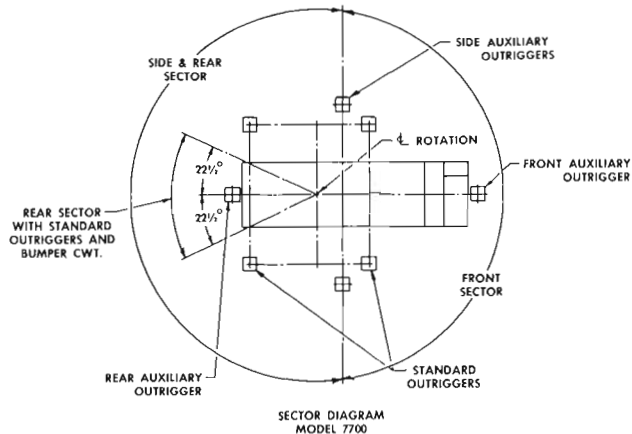


BOOM				CAPACITY	CAPACITIES BELOW APPLY TO JIBS — SEE JIB DATA											
L	R	A	H		BOOM PLUS JIB			BOOM PLUS JIB			BOOM PLUS JIB			BOOM PLUS JIB		
					Length	Radius	CAPACITY	Length	Radius	CAPACITY	Length	Radius	CAPACITY	Length	Radius	CAPACITY
91.4M Midpoint Location 48.8M	18.3	79.8	92.5	* 56,610	103.6M (91.4M + 12.2M)	24.4	36,200	27.4	32,700	27.4	28,500	115.8M (100.6M + 15.2M)	27.4	33.5	* 14,000	
	20	78.7	92.1	* 51,520		26	34,900	29	29,900	29	28,300		35	* 14,000		
	23	76.8	91.5	43,620		29	30,400	32	25,400	32	26,200		38	* 14,000		
	26	74.8	90.7	37,020		32	25,600	35	21,800	35	22,200		41	* 14,000		
	29	72.9	89.8	31,770		35	22,000	38	18,800	38	19,200		44	* 14,000		
	32	70.9	88.8	27,620		38	19,100	41	16,300	41	16,600		47	13,800		
	35	68.9	87.7	24,190		41	16,600	44	14,100	44	14,400		50	12,600		
	38	66.8	86.4	21,380		44	14,500	47	12,400	47	12,600		53	11,100		
	41	64.8	85.0	18,900		47	12,700	50	10,900	50	11,000		56	9,800		
	44	62.7	83.5	16,510		50	11,100	53	9,300	53	9,500		59	8,600		
	47	60.5	81.9	14,360		53	9,700	56	8,100	56	8,300		62	7,600		
	50	58.3	80.1	12,500		56	8,500	59	7,000	59	7,200		65	6,600		
	53	56.1	78.2	10,840		59	7,400	62	6,100	62	6,300		68	5,800		
	56	53.8	76.0	9,340		62	6,400	65	5,200	65	5,400		71	5,000		
	59	51.4	73.7	8,010		65	5,500	68	4,400	68	4,300		74	4,300		
62	48.9	71.2	6,790	68	4,700	71	3,500	71	3,600	77	3,600					
65	46.4	68.4	5,670	71	3,900	74	2,800	74	2,800	79.2	3,100					
68	43.7	65.4	4,680	74	3,200	77	2,500	77	2,500							
71	40.9	62.0	3,760	77	2,500	79.2	2,000									
74	37.9	58.3	2,920													
77	34.7	54.2	2,290													
79.2	32.1	50.7	1,910													

94.5M Midpoint Location 48.8M	21.3	78.2	95.0	* 46,630	106.7M (94.5M + 12.2M)	24.4	36,200	27.4	32,700	27.4	28,500	118.8M (97.5M + 21.3M)	27.4	33.5	* 12,200
	23	77.2	94.6	* 42,770		26	34,900	29	29,800	29	28,300		35	* 12,200	
	26	75.3	93.8	36,780		29	30,300	32	25,300	32	26,200		38	* 12,200	
	29	73.4	93.0	31,750		32	25,600	35	21,700	35	22,200		41	* 12,200	
	32	71.5	92.0	27,570		35	22,000	38	18,700	38	19,200		44	* 12,200	
	35	69.6	90.9	24,150		38	19,000	41	16,200	41	16,600		47	13,200	
	38	67.6	89.7	21,330		41	16,600	44	14,100	44	14,400		50	11,700	
	41	65.6	88.4	18,850		44	14,400	47	12,300	47	12,600		53	10,300	
	44	63.6	87.0	16,470		47	12,600	50	10,700	50	11,000		56	9,000	
	47	61.6	85.4	14,320		50	11,000	53	9,300	53	9,500		59	8,000	
	50	59.5	83.7	12,460		53	9,600	56	8,000	56	8,300		62	7,700	
	53	57.3	81.8	10,790		56	8,400	59	7,000	59	7,200		65	6,700	
	56	55.1	79.8	9,290		59	7,300	62	6,000	62	6,300		68	5,900	
	59	52.9	77.6	7,970		62	6,300	65	5,100	65	5,200		71	5,100	
	62	50.5	75.2	6,750		65	5,500	68	4,200	68	4,300		74	4,400	
65	48.1	72.6	5,630	68	4,700	71	3,900	71	3,700	77	3,700				
68	45.6	69.7	4,630	71	3,900	74	3,100	74	3,000	80	3,000				
71	43.0	66.6	3,710	74	3,100	77	2,400	77	2,400	83	2,300				
74	40.2	63.2	2,870	77	2,400	79.2	2,000			85.3	1,900				
77	37.3	59.4	2,240												
79.2	35.0	56.3	1,860												

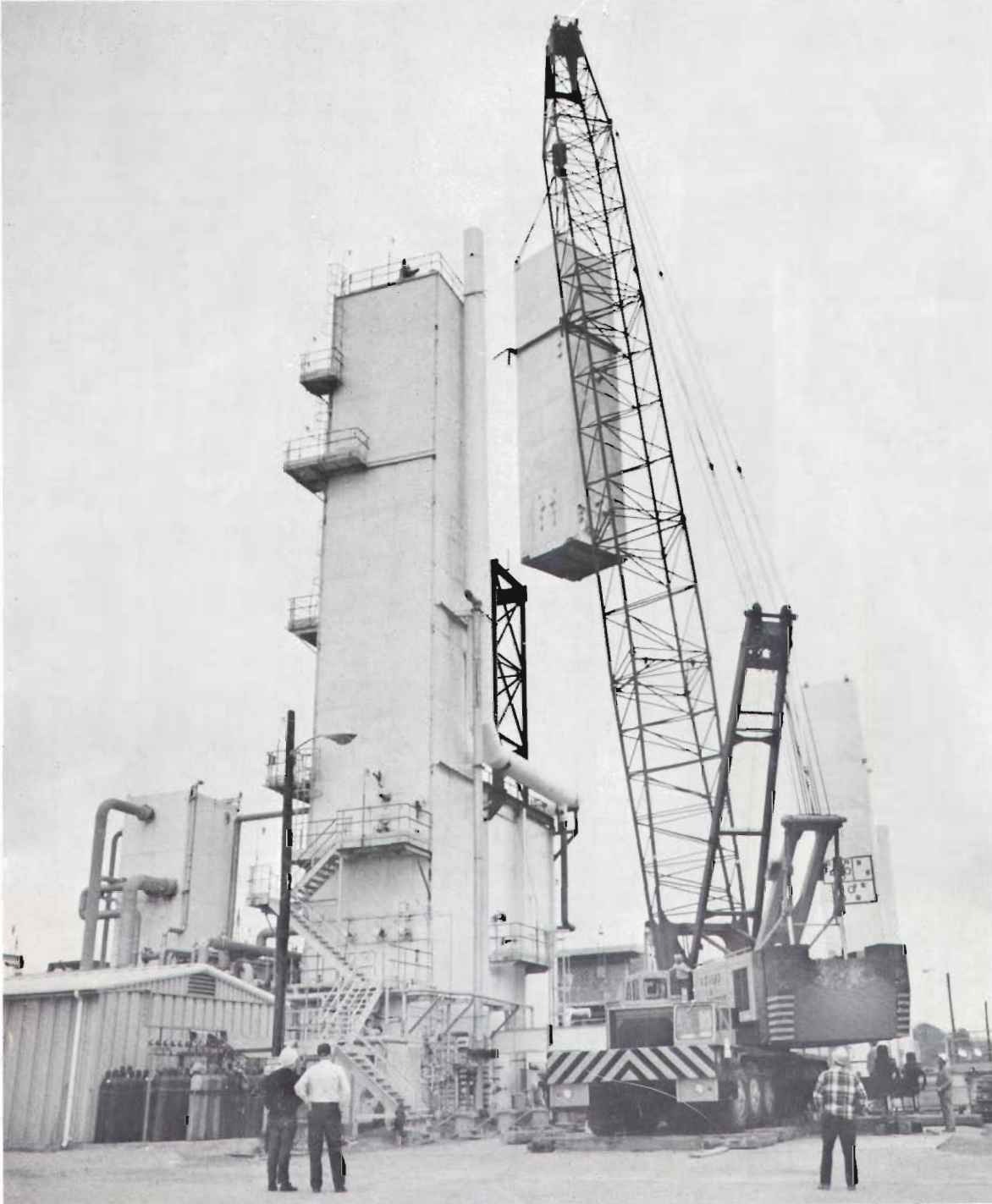
**This Chart Is Based Upon:**

- Capacities marked by \* are based upon structural limitations of the machine; all others do not exceed 85% of tipping in the least stable direction.
- When the machine is equipped with standard outriggers and front auxiliary outriggers, full 360° operation of the crane is permitted. However, when operating the crane in the front sector, the load radius shall not be less than 10.6M. (Refer to diagram below.)
- Machine to be leveled on a firm solid support; shock and side loads are to be prevented.
- When lifting a load, the outriggers must be fully extended horizontally, the outrigger floats down, and all tires free of the ground.
- All hook blocks, lifting tackle and jib attachments are considered a part of the load to be lifted.
- Exceeding these loads or altering the counterweight nullifies all warranties.
- Gantry must be in fully raised position when handling booms or boom plus jib combinations.
- When the machine is equipped with standard outriggers, over the side is the least stable direction.
- Load ratings shown on this chart make no allowance for such factors as the effect of side loads, wind, ground conditions, and operating speeds. The operator therefore shall reduce loads in order to take these factors into account.



Capacities Per S.A.E. Code J-765  
 Class Designation Per U.S. Dept. of Commerce Standards

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