

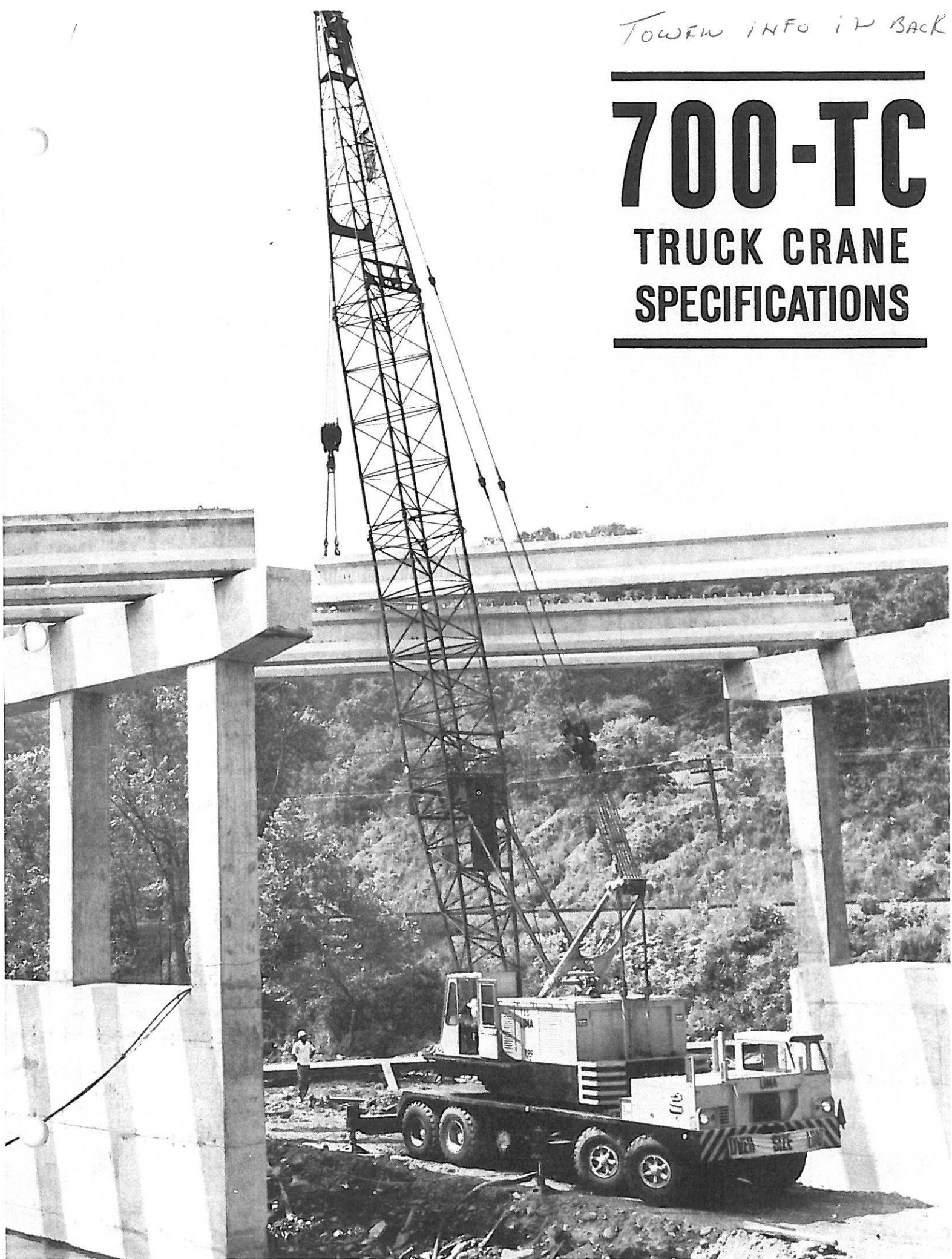
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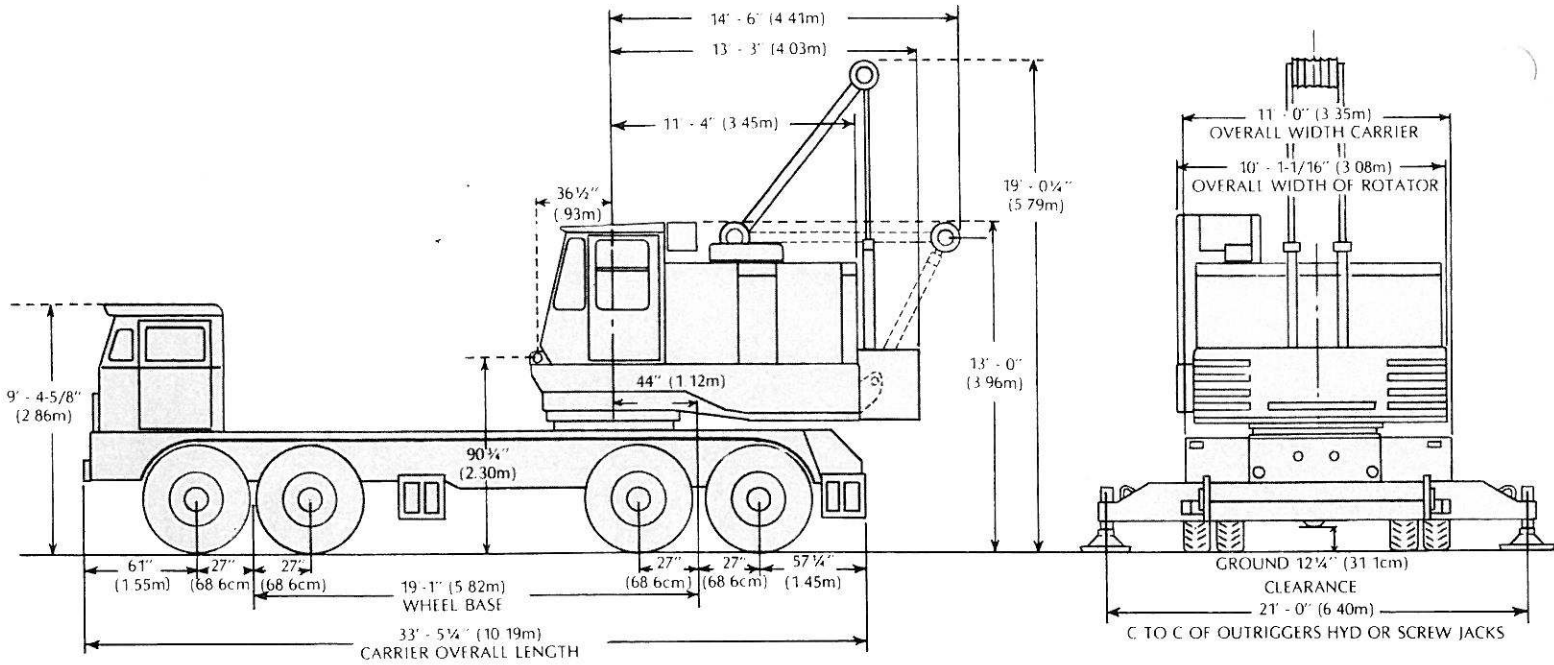
# 700-TC

## TRUCK CRANE SPECIFICATIONS

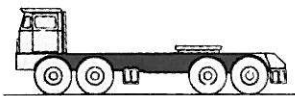
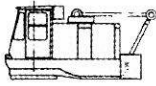





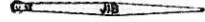
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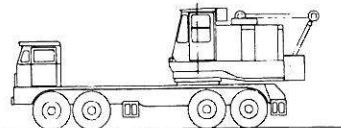
# CLEARANCE AND DIMENSIONS



# WEIGHTS OF COMPONENT PARTS

<p><b>CARRIER</b> T-1</p>  <p>Total Weight of Carrier with Standard Diesel Engine and Hydraulic Outriggers 55,755 Lbs * (25290kg)</p>	<p><b>ROTATOR</b> R-1</p>  <p>Total Weight of Rotating Assembly with Standard Diesel Engine with Torque Converter and Counterweight 47,005 Lbs * (21,321kg)</p>	<p><b>CRANE ATTACHMENT</b> A-2</p>  <p>Total Weight of Crane Attachment with 50' (15.2m) Tubular Boom, 4 Point Sheaves, 10 Part Crossover, Laggings, Swing Snubber Boom Stop, Boom Angle Indicator and Necessary Wire Ropes 7,980 Lbs. * (3,619kg)</p>	<p><b>MISCELLANEOUS</b></p> <table border="0"> <tr><td>Hook Block</td><td>1,325 Lbs (601kg)</td></tr> <tr><td>Boom Stop</td><td>615 Lbs (279kg)</td></tr> <tr><td>Ball &amp; Hook (8.5 Ton)</td><td>340 Lbs (154kg)</td></tr> <tr><td>Crossover</td><td></td></tr> <tr><td>  10 Part Line</td><td>580 Lbs (263kg)</td></tr> <tr><td>  12 Part Line</td><td>610 Lbs (277 kg)</td></tr> <tr><td>Mid-Point Suspension</td><td></td></tr> <tr><td>  160' (48.8m) thru</td><td></td></tr> <tr><td>  180' (54.9m) Boom</td><td>460 Lbs (208kg)</td></tr> <tr><td>  190' (57.9m) &amp;</td><td></td></tr> <tr><td>  200' (60.9m) Boom</td><td>525 Lbs (238kg)</td></tr> </table>			Hook Block	1,325 Lbs (601kg)	Boom Stop	615 Lbs (279kg)	Ball & Hook (8.5 Ton)	340 Lbs (154kg)	Crossover		10 Part Line	580 Lbs (263kg)	12 Part Line	610 Lbs (277 kg)	Mid-Point Suspension		160' (48.8m) thru		180' (54.9m) Boom	460 Lbs (208kg)	190' (57.9m) &		200' (60.9m) Boom	525 Lbs (238kg)
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				<p><b>Operating Wire Ropes</b></p>	<p><b>Basic Weight</b></p>	<p><b>For Each Add. 10 Ft. (3.04m) Of Boom — Add</b></p>																					
<p><b>OUTRIGGER BOXES, BEAMS AND FLOATS</b></p>  <p><b>HYDRAULIC OUTRIGGERS:</b></p> <p>A—Outrigger Box (2) 2,820 Lbs. Ea. (1120kg)</p> <p>B—Outrigger Beams (4) 1,755 Lbs. Ea. (725kg)</p> <p>C—Floats (4) 65 Lbs. Ea. (29kg)</p> <p><b>BUMPER CWT.</b> 9,850 Lbs. (4,467kg)</p> 	<p>For Third Drum (Add) 880 Lbs (399kg)</p> <p>For Power Load Lowering (Add) 325 Lbs (147kg)</p> <p>For Full Width Front Drum wPLL (Add) 1,065 Lbs (483kg)</p> <p><b>GANTRIES:</b> Telescopic Back-Hitch Gantry—1,975 Lbs (895kg)</p> <p>Basic Gantry—760 Lbs (344kg)</p> <p>Note: Weight of Gantries Are Included In Rotating Assembly</p>  <p><b>ROTATING REAR CWT.</b> 20,260 Lbs (9,190kg)</p> 	<p><b>BOOM &amp; BOOM EXTENSIONS</b></p> <p>30' ( 9.17m) Point Section 3,005 Lbs * (1362kg)</p> <p>20' ( 6.09m) Base Section 1,995 Lbs * ( 904kg)</p> <p>10' ( 3.04m) Extension 825 Lbs * ( 374kg)</p> <p>20' ( 6.09m) Extension 1,285 Lbs * (582kg)</p> <p>30' ( 9.14m) Extension 1,655 Lbs * ( 750kg)</p> <p>40' (12.19m) Extension 2,205 Lbs * (1000kg)</p> <p>*Main Sheave and Guidesheaves Included in Point Section Weight</p> <p>All Extension Weights, Include Pendants</p>	<p>Crane (Main Hoist) 620 Lbs. (281kg)</p> <p>Crane (Aux Hoist) 120 Lbs. ( 54kg)</p> <p>Dragline 210 Lbs ( 95kg)</p> <p>Clamshell 190 Lbs ( 86kg)</p> <p>Boom Hoist 410 Lbs (186kg)</p> <p>  10 Part —</p> <p>  12 Part 485 Lbs. (220kg)</p>	<p>—</p> <p>20 Lbs ( 9kg)</p> <p>25 Lbs (11kg)</p> <p>20 Lbs ( 9kg)</p> <p>—</p> <p>—</p>	<p>—</p> <p>20 Lbs ( 9kg)</p> <p>25 Lbs (11kg)</p> <p>20 Lbs ( 9kg)</p> <p>—</p> <p>—</p>																						
		<p><b>JIB</b></p>  <p>20' (6.1m) Basic Jib Assembly 1,775 Lbs (805kg)</p> <p>10' (3.04m) Extension 420 Lbs (191kg)</p> <p>20' (6.1m) Extension 690 Lbs (313kg)</p> <p>Note: For Each Additional 10' (3.04m) of Boom Length Add 35 Lbs (16kg) to Jib Assembly</p>	<p><b>A-3 Dragline Attachment (Less Bucket)</b></p> <p>Tubular Boom 6,195 Lbs (2,810kg)</p> <p>Deck mounted Fairlead 745 Lbs. ( 337kg)</p> <p>Additional Rotating Parts 660 Lbs ( 299kg)</p> <p>Total Attachment Weight 7,600 Lbs (3,447kg)</p> <p><b>A-4 Clamshell Attachment (Less Bucket)</b></p> <p>Tubular Boom 6,285 Lbs (2,850kg)</p> <p>Tagline Winder 355 Lbs. ( 161kg)</p> <p>Additional Rotating Parts 660 Lbs ( 299kg)</p> <p>Total Attachment Weight 7,300 Lbs (3,311kg)</p>																								

\*Per Current Price List Description



TOTAL WEIGHT OF T-1, R-1 & A-2 = 110,740 Lbs. (50,231kg)

TOTAL WEIGHT OF T-1 & R-1 = 102,760 Lbs. (46,611kg)

## WORKING WEIGHTS (Approximate in pounds)

	HYDRAULIC OUTRIGGERS
LIFTING CRANE	110,740 Lbs (50,231kg)
CLAMSHELL (Less Bucket)	110,060 Lbs (49,923kg)
DRAGLINE (Less Bucket)	110,360 Lbs (50,059kg)

## AXLE LOADING AND WEIGHTS

**EQUIPPED AS FOLLOWS:** 14.00 (35.6cm) x 20" (50.8cm) tires; hydraulic outriggers, 50 ft. (15.24m) tubular boom; Cummins NHF-240 power plant in truck; Cummins N855-P160 power plant with converter in rotating assembly. Includes lagging, boom stops and cables. Does not include third drum or power load lowering.

Weight Combinations	Boom Position	With Hydraulic Outriggers & Floats		
		Front	Rear	Total
COMPLETE MACHINE (CRANE)	F	22,430 (10,174kg)	88,310 (40,057kg)	110,740 (50,231kg)
	R	43,870 (19,899kg)	66,870 (30,332kg)	110,740 (50,231kg)
MACHINE LESS COUNTERWEIGHT	F	31,270 (14,184kg)	59,210 (26,857kg)	90,480 (41,041kg)
	R	27,245 (12,358kg)	63,235 (28,683kg)	90,480 (41,041kg)
MACHINE LESS COUNTERWEIGHT, BOXES, BEAMS AND FLOATS	F	28,710 (13,023kg)	48,850 (22,158kg)	77,560 (35,181kg)
	R	24,685 (11,197kg)	52,875 (23,984kg)	77,560 (35,181kg)
MACHINE LESS COUNTERWEIGHT, BOXES, BEAMS, FLOATS, BOOM POINT SECTION	F	21,270 ( 9,648kg)	53,285 (24,170kg)	74,555 (33,818kg)
	R	30,975 (14,050kg)	43,580 (19,768kg)	74,555 (33,818kg)
MACHINE LESS COUNTERWEIGHT, BOXES, BEAMS, FLOATS, COMPLETE BOOM	F	18,365 ( 8,330kg)	51,855 (23,521kg)	70,220 (31,851kg)
	R	32,215 (14,612kg)	38,005 (17,239kg)	70,220 (31,851kg)

F—DENOTES BOOM EXTENDED FORWARD

R—DENOTES BOOM EXTENDED REARWARD

NOTE: Any deviation from the equipment listd above will affect the weights shown proportionately and compensation must be made accordingly

## POWER PLANT DATA (CARRIER)

	Make	Model	Fuel	Cyl.	Bore & Stroke	Rated H.P.
TRUCK CARRIER	Cummins	NHF-240	Diesel	6	5½" (14.0cm) x 6" (15.2cm)	240 @ 2300
	GM	6171N	Diesel	6	4¼" (10.8cm) x 5" (12.7cm)	244 @ 2300
	Cummins	NTF-295	Diesel	6	5½" (14.0cm) x 6" (15.2cm)	295 @ 2300
	GM	8V-71	Diesel	8	4¼" (10.8cm) x 5" (12.7cm)	318 @ 2100

## PERFORMANCE DATA (CARRIER)

Number of Travel Speeds Standard — 15 Forward and 3 Reverse  
Turning Radius — 49 Ft. (14.93m) (On Center Outside Front Tire)

Engine Make & Model	Carrier Equipped With 5 Speed Main & 3 Speed Auxiliary Trans.			
	Low Range*		High Range**	
	Grade	Speed	Grade	Speed
Cummings NHF-240	36.9	1.3 MPH (2.1KmPH)	0.8	42.1 MPH (67.7KmPH)
GM 6-71	37.2	1.3 MPH (2.1KmPH)	0.9	42.1 MPH (67.7KmPH)
Cummins NTF-295	37.0	1.7 MPH (2.7KmPH)	0.7	48.9 MPH (78.7KmPH)
GM 8V-71	40.0	1.5 MPH (2.4KmPH)	1.5	44.7 MPH (71.9KmPH)

NOTE: The above is based on a machine equipped with a 5 speed Fuller main transmission and a Spicer (3) speed auxiliary transmission and 14.00 (35.6cm) x 20 (50.8cm) tires.

\*\* Maximum engine torque & machine weighing 110,740# (50,231kg).

\*\*Maximum engine speed & machine weighing 70,220# (31,851kg)

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## DESCRIPTIVE DATA (CARRIER)

### Basic, Standard and Optional Components

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**FRAME:** Carrier frame of heavy-duty, all welded construction. Two main members, each of deep box section, are joined together by bumper and box section cross members. 100,000 P.S.I. (7031kg/cm<sup>2</sup>) steel is used in higher stressed members of frame. Tow hooks, front and rear.

**SWING CIRCLE:** A large diameter, single row, anti-friction bearing assembly with integral swing gear. Bearing is well sealed with close fitting races, eliminating motion of rotating assembly on carrier.

**OUTRIGGER BOXES:** The two outrigger boxes are fabricated from steel plates. Boxes are of the pin-on design for ease of removal.

**OUTRIGGER BEAMS:** Four, box section extensible beams mounted two in each outrigger box are fabricated of 100,000 P.S.I. (7031 kg/cm<sup>2</sup>) steel.

**HYDRAULIC OUTRIGGERS:** Independent control valves for extending each beam and for lowering each hydraulic jack with T-1 steel floats provide precise leveling of truck. Control valve station on carrier at ground level.

**REMOTE CONTROLLED CARRIER:** Controls provided in cab of rotating assembly that can start, steer, brake, clutch, shift transmission (low and reverse) and control throttle.

**FRONT TANDEM SUSPENSION:** Front tandem axles are suspended by two alloy steel underslung equalizers, direct-connected to chassis frame. Two radius rods on each axle maintain proper positioning of axles.

**FRONT AXLES:** Two tubular-high clearance type, rating 27,400# (12,428kg) each. Wheels are mounted on roller bearings.

**REAR AXLES:** Planetary drive with inter-axle differential. No spin differential is available.

**REAR TANDEM SUSPENSION:** Rear tandem axles are suspended by two alloy steel underslung equalizers, direct-connected to chassis frame. One torque rod on each axle maintains proper positioning of axles.

**Wheels:** Heavy-duty 20 (50.8cm) x 10.0 (25.4cm) rims, four singles in front, four duals in rear, making a total of twelve wheels.

**TIRES:** Twelve 14.00 (35.6cm) x 20 (50.8cm) - 18 ply rating.

**FUEL CAPACITY:** 85 gallons (322 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 17¼" (43.8cm) diameter x 4" (10.2 cm) wide. Rear brake shoes are 16½" (41.9cm) diameter x 7" (17.8cm) wide. The carrier engine is equipped with a Jacobs engine brake as standard equipment.

**SAFETY BRAKES:** Spring set, air released brake cylinders on rear axles lock brakes in case of air loss or for parking. An auxiliary air reservoir and controls allow brakes to be released and reapplied several times after loss of regular air supply.

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

**STEERING:** Hydraulic steering with Ross roller mounted cam and twin lever type steering gear powered by engine driven pump, double acting cylinder and hydraulic control valve built into draglink.

**MAIN TRANSMISSION:** Fuller with five speeds forward and one reverse.

**AUXILIARY TRANSMISSION:** Spicer with three speeds giving 15 speeds forward and three reverse.

**CLUTCH:** Lipe Rollway 14" (35.6cm) - 2 - DLB.

**CAB:** One-man type, with visor type top. All steel construction, amply ventilated for summer or winter. Adjustable seat. Instrument cluster contains speedometer, odometer, ammeter, oil pressure gauge, water temperature gauge, fuel gauge and pilot light. Instrument panel contains air 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, boom rest, rear view mirrors, two beam headlights, stop and tail light, front, middle and rear marker lights and parking lights, electric directional signals, spare wheel with or without tire, air or electric windshield wipers, air and electric dual horns, fender flaps, heater and defrosters.

# POWER PLANT DATA (ROTATOR)

ROTATING ASSEMBLY	
MAKE	CUMMINS
MODEL	N855-P160
FUEL	Diesel
CYL.	6
BORE & STROKE	5 1/2" (140mm) x 6" (152mm)
GROSS RATED HP	160 @ ~ 1800
TORQUE CONV. HP @ GOVERNED R.P.M.	135 @ 1800

LINE PULL	LINE SPEED*	
	1st Layer on Drum 16" (40.6cm) Pitch Dia.	6th Layer On Drum 23 1/2" (59.7cm) Pitch Dia.
16,800lbs (7,620kg)	205fpm ( 62mpm)	195fpm ( 59mpm)
13,500lbs (6,124kg)	250fpm ( 76mpm)	250fpm ( 76mpm)
10,000lbs (4,536kg)	296fpm ( 90mpm)	350fpm (107mpm)
6,000lbs (2,722kg)	343fpm (105mpm)	458fpm (140mpm)
2,000lbs (907kg)	383fpm (117mpm)	547fpm (167mpm)

\* - Third Drum Speeds Are Approximately 88% of the speeds indicated in the Chart

Line pulls and speeds will vary, dependent on power plant applied

# MISCELLANEOUS DATA (ROTATOR)

Swing Speed	3.1 RPM	Fuel Capacity 210 Gallons (795 Liters)
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# CLUTCH AND BRAKE DATA

FUNCTION	CLUTCHES				BRAKES			
	Type	Width	Diameter	Area	Type	Width	Diameter	Area
Main Hoist	Band	5" (12.7cm)	24" (61.0cm)	337 Sq. In. (2,174 Sq. cm)	Band	4 1/2" (11.4cm)	30" (76.2cm)	338 Sq. In. (2,181 Sq. cm)
Auxiliary Hoist	Band	5" (12.7cm)	24" (61.0cm)	337 Sq. In. (2,174 Sq. cm)	Band	4 1/2" (11.4cm)	30" (76.2cm)	338 Sq. In. (2,181 Sq. cm)
3rd Drum Hoist	Band	5" (12.7cm)	24" (61.0cm)	337 Sq. In. (2,174 Sq. cm)	Band	4 1/2" (11.4cm)	30" (76.2cm)	338 Sq. In. (2,181 Sq. cm)
Boom Hoist	Band	5" (12.7cm)	24" (61.0cm)	337 Sq. In. (2,174 Sq. cm)	Band	4 1/2" (11.4cm)	30" (76.2cm)	338 Sq. In. (2,181 Sq. cm)
Boom Lowering	Band	4 1/2" (11.4cm)	20" (50.8cm)	248 Sq. In. (1,600 Sq. cm)				
Load Lowering	Band	4 1/2" (11.4cm)	20" (50.8cm)	248 Sq. In. (1,600 Sq. cm)	Band	4" (10.2cm)	26" (66.0cm)	240 Sq. In. (1,548 Sq. cm)
*Front Drum	Band	5" (12.7cm)	24" (61.0cm)	337 Sq. In. (2,174 Sq. cm)	Band	4 1/2" (11.4cm)	30" (76.2cm)	338 Sq. In. (2,181 Sq. cm)
Swing	2 Shoe	4 1/2" (11.4cm)	24" (61.0cm)	290 Sq. In. (1,871 Sq. cm)	Band	4 1/2" (11.4cm)	30" (76.2cm)	338 Sq. In. (2,181 Sq. cm)

\* Full width front drum with planetary load lowering

# LAGGING DATA

Lagging Location	Usage	Lagging P.D.	Lagging Width	Type of Lagging	Eff. Capy. 1st Layer	Maximum Capy. & Layers	Wire Rope Size
L H Front	Third Drum	14" (35.6cm)	11" (27.9cm)	Smooth	45' (13.7m)	464' (141.4m) In 7	3/4" (19.1mm)
R H Front	Crane Auxiliary Hoist	16" (40.6cm)	14-1/2" (36.8cm)	Smooth	71' (21.6m)	569' (173.4m) In 6	3/4" (19.1mm)
R H Front	Dragline Drag	16-1/8" (41.0cm)	14-1/2" (36.8cm)	Grooved	49' (14.9m)	—	7/8" (22.2mm)
L H Rear	Dragline Hoist	16" (40.6cm)	14-1/2" (36.8cm)	Grooved	48' (14.6m)	—	3/4" (19.1mm)
L H Rear	Main Hoist	16" (40.6cm)	14-1/2" (36.8cm)	Smooth	71' (21.6m)	569' (173.4m) In 6	3/4" (19.1mm)
L H Rear	Clamshell Closing	16" (40.6cm)	14-1/2" (36.8cm)	Grooved	48' (14.6m)	—	3/4" (19.1mm)
R H Front	Clamshell Holding	16" (40.6cm)	14-1/2" (36.8cm)	Grooved	48' (14.6m)	—	3/4" (19.1mm)
R H Rear	Boom Hoist	12" (30.5cm)	8-1/2" (21.6cm)	Smooth	28' (8.5m)	372' (113.4m) In 8	3/4" (19.1mm)
Full Width Front Drum	Main or Aux Hoist	16" (40.6cm)	24-1/8" (61.3cm)	Smooth	123' (37.5m)	959' (292.3m) In 6	3/4" (19.1mm)

# DESCRIPTIVE DATA (ROTATING ASSEMBLY)

## Basic Standard and Optional Components

**ROTATING BASE:** Fabricated with integral machinery frames. Fuel tank built in rear.

**SHAFTING:** All shafting heat treated alloy steel ground to size. Involute splines used extensively.

**VERTICAL SWING SHAFT:** The vertical swing shaft and pinion is one piece, mounted on anti-friction bearings.

**HORIZONTAL SWING SHAFT:** This shaft is mounted on anti-friction bearings, geared to the front and rear drum shafts. It supplies power to the vertical swing shaft through a bevel pinion.

**SWING BRAKE:** A swing brake operates on the outside of the front swing clutch housing for use as a lock brake.

**SWING BRAKE WITH SNUBBER:** Same as swing brake except an additional control valve on swing lever provided for momentarily holding while setting loads.

**JACK SHAFT:** This shaft is mounted on ball bearings, and supplies power through a pinion gear to the power lowering shaft. Lube oil pump is belt driven from right hand end of jack shaft.

**FRONT DRUM SHAFT:** Supported by self-aligning anti-friction bearings and ball bearings. Mounted on the right hand end of this shaft is a swing clutch geared to the horizontal swing shaft. The right hand drum is a split lagging design, either smooth or grooved. All drums are mounted on ball bearings. Refer to "lagging data" table for specifications.

**REAR DRUM SHAFT:** Supported by self-aligning anti-friction and ball bearings. Mounted on the right hand end of this shaft is a swing clutch geared to the horizontal swing shaft. The right hand or boom hoist drum is solid-type design. The left hand drum is a split lagging design, either smooth or grooved. All drums are mounted on ball bearings. Refer to "lagging data" table for specifications.

**HOIST BRAKES:** Are external contracting friction band type, mechanically operated by pedals mounted on anti-friction bearings for maximum ease of operation. Hoist brakes have a foot-controlled lock.

**CLUTCHES:** All clutches are air actuated. All clutches are of the internal expanding friction band type with the exception of the swing clutches which are of the internal two shoe design.

**BOOM HOIST:** The boom hoist located on the rear drum shaft is of the spur gear and chain design with power up and power down control. Hoisting control is through an air actuated clutch with a spring set, air released holding brake. The brake automatically releases when hoisting or lowering. The lowering is controlled through an air actuated clutch mounted on the power lowering shaft and chain connected to the boom hoist drum. Lowering speed is reduced considerably resulting in a very smooth, precision, lowering operation. A ratchet and pawl device is supplied for added safety.

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

**BOOM STOP:** Telescopic with or without automatic air cut-off of boom hoist clutch.

**FAIRLEAD:** Deck mounted, full revolving.

**BOOM SUSPENSION:** Crossover with 10 or 12 parts of line or 10 and 12 parts with mid-point suspension depending on boom length.

**THIRD DRUM:** One piece high capacity lagging running on ball bearings, located at left hand side of front drum shaft. Actuated by air operated clutch and brake. Refer to "lagging data" table for specifications.

**FULL WIDTH FRONT DRUM:** High capacity drum located on the front shaft, mounted on ball bearings and equipped with planetary controlled load lowering. Refer to "Lagging Data" table for specifications. (Third drum not available with this equipment.)

**POWER LOWERING SHAFT:** This shaft is located behind the rear hoist drum shaft and accommodates the power boom lowering and power load lowering.

**POWER LOAD LOWERING:** The power load lowering, air actuated clutch is chain connected to the left hand rear main hoist drum. The load lowering speed is reduced considerably, resulting in a very smooth precision, lowering operation.

**COUNTERWEIGHT:** One piece cast iron counterweight mounted at rear of rotating frame. Readily removable for weight reduction of machine for transporting.

**COUNTERWEIGHT REMOVAL EQUIPMENT:** Includes sheaves in base section of boom, lifting slings, and boom stop. Hoist cable over sheaves in boom base is used to load or unload counterweight from auxiliary truck. Gantry power up and down feature is used to position counterweight with slings provided.

**GANTRY:** The gantry consists of a basic low gantry to which is attached a high gantry having telescopic back legs with three set positions. Gantry can be (1) pinned in low position at cab height for traveling with low clearance, (2) pinned in mid-position for traveling with boom suspended over rear of carrier, and (3), raised to full height for machine operation.

**CONTROLS:** All controls are air except hoist brakes which are mechanical.

**OPERATOR'S CAB:** Machine equipped with environmental operator's cab lined with sound barrier and deadening material, cuts noise level by an estimated 50 percent. Cab can be heated or air conditioned. Controls are grouped for maximum operator convenience, comfort and efficiency. Side and front windows slide up and down for ventilation. Numerous hatches and doors are provided for access to machinery and power plant. Hoist drums are not covered.

**GEARING AND CHAIN DRIVES:** All gearing, except rotating pinion and gear, is fully enclosed, running in oil with pump circulation for positive lubrication. The four chain sprockets for boom hoist and load lowering device require hand lubrication. Power take-off chain drive is fully enclosed, running in an oil bath.

**MISCELLANEOUS ACCESSORIES:** Ball and hook, hook block, electric signal horn, running board (short hook on type).

**POWER TAKE-OFF:** Disconnect clutch, precision roller chain.

**MAXIMUM LENGTH BOOM OR BOOM AND JIB COMBINATION THAT CAN BE HANDLED  
HORIZONTALLY WITH OR WITHOUT BUMPER COUNTERWEIGHT AS INDICATED**

Over Rear With OR.		Over Side With OR.	
L/B CWT.	W/B CWT.	L/B CWT.	W/B CWT.
200' (61.0m)	200' (61.0m)	200' (61.0m)	200' (61.0m)
180' (54.9m) + 20' (6.1m)	200' (61.0m) + 20' (6.1m)	170' (51.8m) + 20' (6.1m)	180' (54.9m) + 20' (6.1m)
170' (51.8m) + 30' (9.1m)	190' (57.9m) + 30' (9.1m)	160' (48.8m) + 30' (9.1m)	170' (51.8m) + 30' (9.1m)
160' (48.8m) + 40' (12.2m)	180' (54.9m) + 40' (12.2m)	160' (48.8m) + 40' (12.2m)	160' (48.8m) + 40' (12.2m)
160' (48.8m) + 50' (15.2m)	180' (54.9m) + 50' (15.2m)	150' (45.7m) + 50' (15.2m)	160' (48.8m) + 50' (15.2m)
150' (45.7m) + 60' (18.3m)	170' (51.8m) + 60' (18.3m)	150' (45.7m) + 60' (18.3m)	150' (45.7m) + 60' (18.3m)
Over Rear Less OR.		Over Side Less OR.	
L/B CWT.	W/B CWT.	L/B CWT.	W/B CWT.
150' (48.8m)	170' (51.8m)	130' (39.6m)	140' (42.7m)
120' (36.6m) + 20' (6.1m)	140' (42.7m) + 20' (6.1m)	110' (33.5m) + 20' (6.1m)	110' (33.5m) + 20' (6.1m)
120' (36.6m) + 30' (9.1m)	140' (42.7m) + 30' (9.1m)	100' (30.5m) + 30' (9.1m)	100' (30.5m) + 30' (9.1m)
110' (33.5m) + 40' (12.2m)	130' (39.6m) + 40' (12.2m)	100' (30.5m) + 40' (12.2m)	100' (30.5m) + 40' (12.2m)
110' (33.5m) + 50' (15.2m)	130' (39.6m) + 50' (15.2m)	90' (27.4m) + 50' (15.2m)	100' (30.5m) + 50' (15.2m)
100' (30.5m) + 60' (18.3m)	120' (36.6m) + 60' (18.3m)	90' (27.4m) + 60' (18.3m)	90' (27.4m) + 60' (18.3m)

OR. - Outriggers  
L/B CWT. - Less Bumper Counterweight  
W/B CWT. - With Bumper Counterweight

**BOOM AND JIB DATA**

Boom, Tubular Pin Connected		Jib, Tubular Pin Connected	
Type Service	Crane - Drag - Clamshell	Basic Length	20' (6.1m)
Suspension	Cross Over and Pendants	Max Length	60' (18.3m)
Gantry	High Back Hitch (Telescoping Type)	Chord Size	2 1/2" (64mm) O.D.
Quan. Sheaves at Point Shaft	5	Chord Material	100,000 P.S.I. (7,030kg/cm <sup>2</sup> ) Yield
Convertibility	Crane - Dragline - Clamshell	Quan. Sheaves at Point	One (1)
Dia. Point Sheaves	1 5/8" (40.0cm) P.D. - 3/4" (19.1mm) Cable	P.D. Point Sheave	1 5/8" (40cm) P.D. [ 3/4" (19.1mm) Cable ]
Basic Boom Length	50' (15.2m)	Capacity -- 20'-0" (6.1m)	13 Ton (11.8 Ton)
Type Chords	3 1/4" (83mm) O.D. 100,000 P.S.I. (7,030kg/cm <sup>2</sup> ) Steel	30'-0" (9.1m)	10 Ton ( 9.1 Ton)
Extensions	10' (3.05m), 20' (6.1m), 30' (9.1m) and 40' (12.2m) straight 60 1/4" (153cm) x 6 5/8" (166cm) sec.	40'-0" (12.2m)	7 Ton ( 6.4 Ton)
Max. Boom Length	Crane 200' (61.0m) Drag. & Clam 60' (18.3m)	50'-0" (15.2m)	5 Ton ( 4.5 Ton)
		60'-0" (18.3m)	4 Ton ( 3.6 Ton)

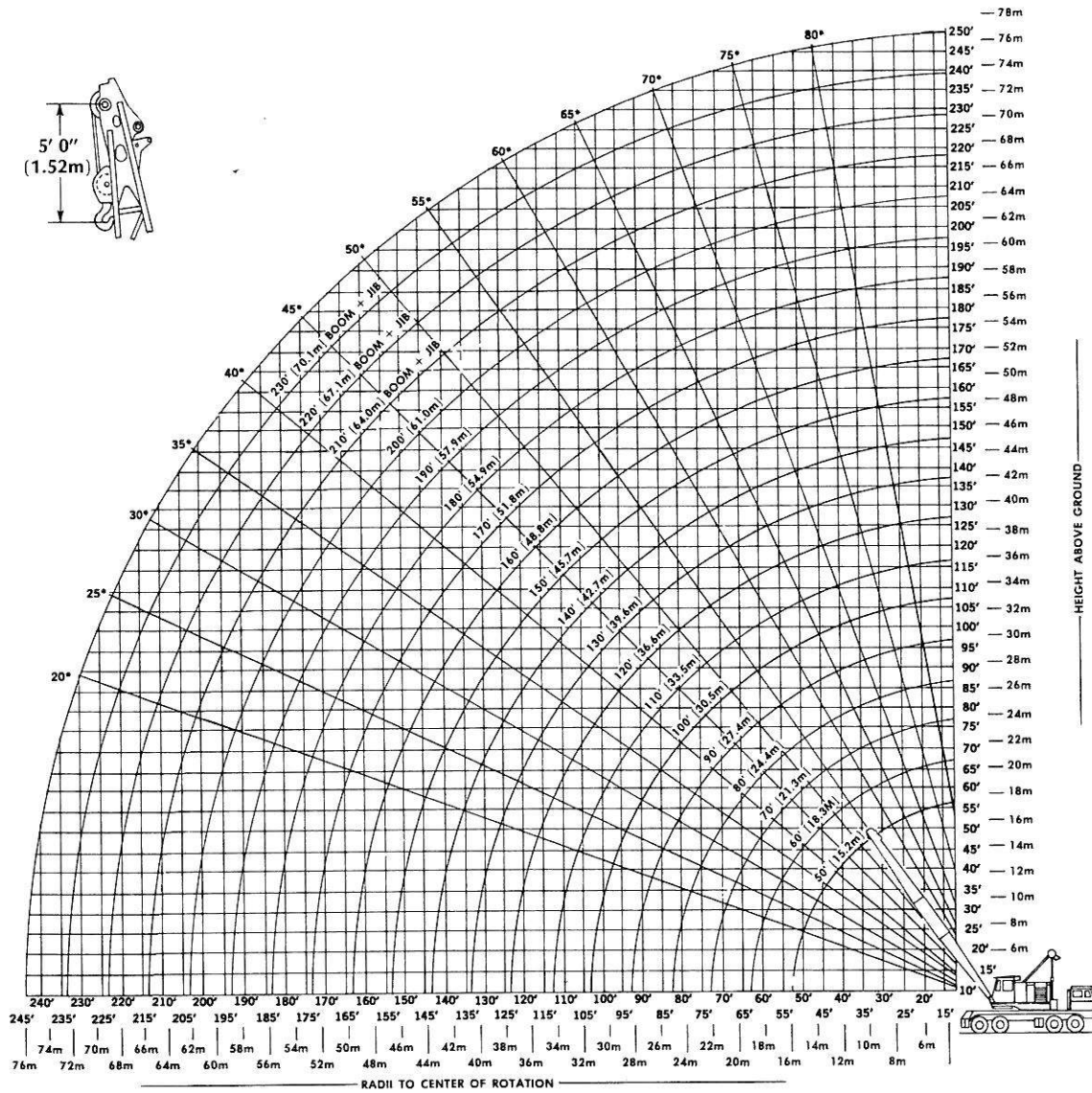
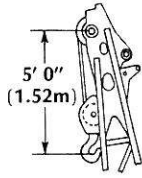
**BOOM HOIST SUSPENSION DATA**

*Boom Length	Reeving Required	Mid-Point Suspension Location
Up thru 150' (45.7m)	10 or 12 Part Crossover	None
160' (48.8m) thru 180' (54.9m)	12 Part w/Mid-Point Suspension	90' (27.4m) From Boom Foot Pin
190' (57.9m) & 200' (61.0m)	12 Part w/Mid-Point Suspension	100' (30.5m) From Boom Foot Pin

\*Boom length determines suspension required. Jib Does not affect requirement.

Time Required to Raise Or Lower A 50' (15.2m) Boom From 20° Above Horizontal To 70° Above Horizontal With 10 Part Boom Hoist Reeving	to Raise	To Lower
	46 Sec	75 Sec

# CRANE WORKING RANGES

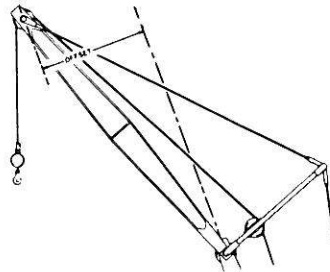


For Boom or jib specifications, descriptions, maximum lengths and applications, refer to boom and jib Data Chart.

### Recommended Wire Rope Reeving For Hook Blocks

Load in Pounds	No. Part Line
Over 16,800lbs (7,620kg)	2
Over 33,600lbs (15,240kg)	3
Over 50,400lbs (22,860kg)	4
Over 67,200lbs (30,480kg)	5
Over 84,000lbs (38,100kg)	6
Over 100,800lbs (45,720kg)	7
Over 117,600lbs (53,340kg)	8
Over 134,400lbs (60,960kg)	9

Fused upon ¼" (19.1mm) dia. wire rope with a minimum breaking strength of 58,800 lbs (26,672 kg)



### Heavy Duty Jib 25½" (64.8cm) x 34½" (87.6cm) Sec.

Jib Length	Rating	Offset	Effective Weight
20' (6.1m)	13 Ton (11.8 Ton)	6'-2" (1.88m)	2,055lbs (932kg.)
30' (9.1m)	10 Ton (9.1 Ton)	11'-3" (3.43m)	2,650lbs (1,202kg.)
40' (12.2m)	7 Ton (6.4 Ton)	16'-2" (4.93m)	3,360lbs (1,524kg.)
50' (15.2m)	5 Ton (4.5 Ton)	21'-1" (6.43m)	4,010lbs (1,819kg.)
60' (18.3m)	4 Ton (3.6 Ton)	26'-0" (7.93m)	4,865lbs (2,207kg.)

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



# CRANE LIFTING CAPACITIES

## STANDARD BOOM

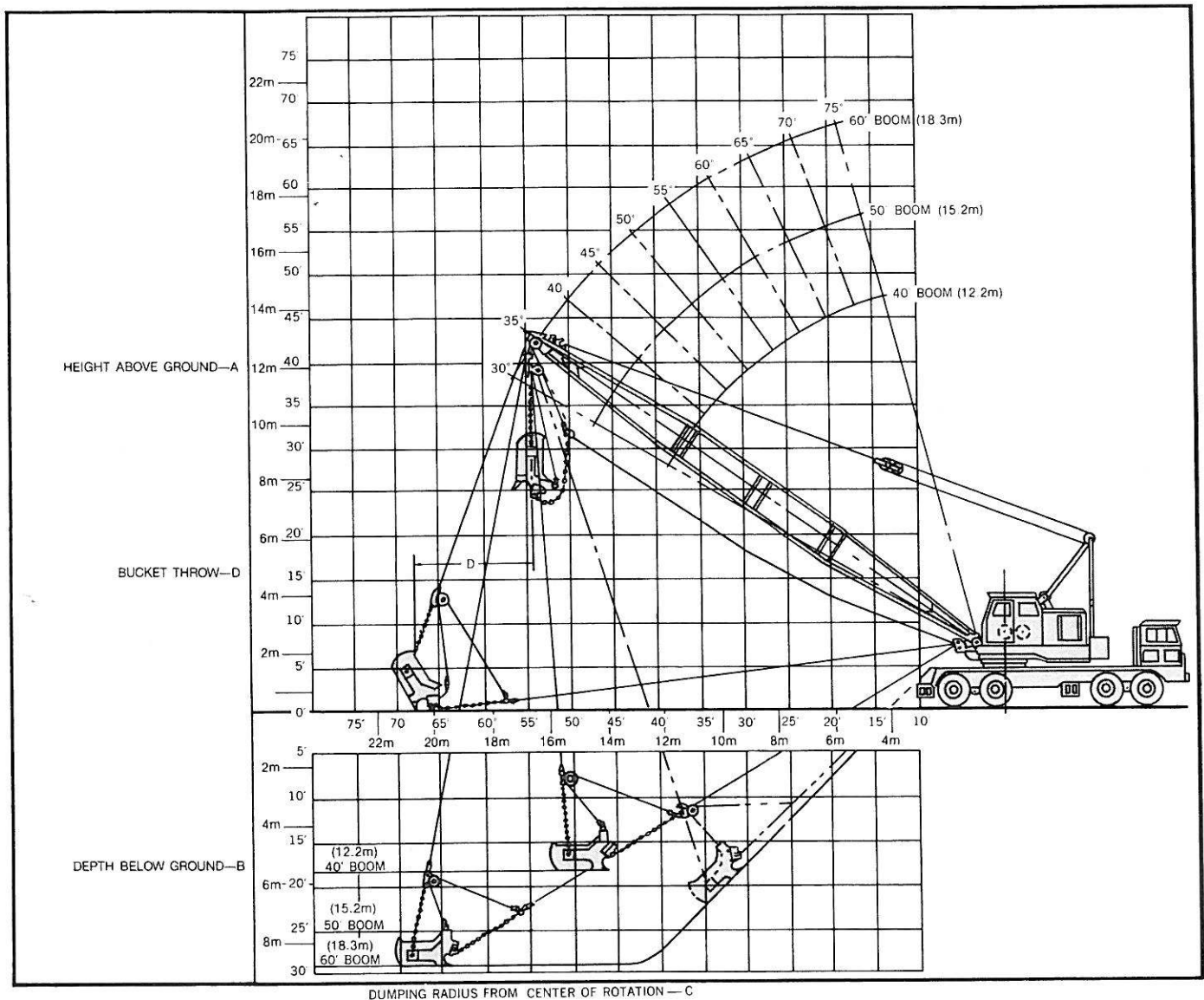
75 Ton Class 15-392			Lifting Capacities 85% Tip Loads												CWT. - 20,260#								
Boom			Outriggers Down		Outriggers Up		Boom			Outriggers Down		Outriggers Up		Boom			Outriggers Down		Outriggers Up				
Lgth.	Rad.	Angle	Side/Rear	Side	Rear	Lgth.	Rad.	Angle	Side/Rear	Side	Rear	Lgth.	Rad.	Angle	Side/Rear	Side	Rear	Side	Rear				
50'	15'	76	150,000*	59,850	64,925	120'	30'	77	60,125	22,075	25,575	180'	50'	75	26,300	—	—	—	—	—			
	20'	70	108,550*	40,050	44,800		35'	75	46,925	17,750	20,850		60'	71	19,775	—	—	—	—	—	—		
	25'	64	82,650	29,775	33,900		40'	72	38,200	14,650	17,400		70'	68	15,450	—	—	—	—	—	—		
	30'	57	60,750	23,450	27,050		45'	70	32,025	12,300	14,775		80'	64	12,350	—	—	—	—	—	—		
	35'	50	47,775	19,200	22,350		50'	67	27,400	10,475	12,725		90'	61	10,050	—	—	—	—	—	—	—	
	40'	42	39,200	16,125	18,950		60'	62	20,950	7,775	9,700		100'	57	8,250	—	—	—	—	—	—	—	
	45'	33	33,100	13,800	16,350		70'	56	16,675	5,925	7,550		110'	53	6,825	—	—	—	—	—	—	—	
	50'	20	28,550	12,000	14,300		80'	50	13,625	4,550	6,000		120'	49	5,650	—	—	—	—	—	—	—	
							90'	44	11,325	3,475	4,775		130'	44	4,675	—	—	—	—	—	—	—	—
							100'	38	9,550	2,650	3,825		140'	40	3,850	—	—	—	—	—	—	—	—
60'	15'	79	145,600*	59,800	64,800	130'	30'	78	60,050	21,850	25,325	190'	50'	76	26,175	—	—	—	—	—			
	20'	74	108,225*	39,925	44,625		35'	76	46,825	17,525	20,600		60'	73	19,600	—	—	—	—	—	—		
	25'	69	82,625	29,600	33,700		40'	73	38,100	14,425	17,150		70'	69	15,250	—	—	—	—	—	—		
	30'	63	60,700	23,250	26,825		45'	71	31,875	12,075	14,550		80'	66	12,150	—	—	—	—	—	—		
	35'	58	47,675	18,975	22,125		50'	69	27,250	10,225	12,475		90'	63	9,825	—	—	—	—	—	—		
	40'	52	39,075	15,900	18,700		60'	64	20,775	7,750	9,450		100'	59	8,000	—	—	—	—	—	—		
	45'	46	32,950	13,575	16,100		70'	59	16,500	5,675	7,325		110'	56	6,575	—	—	—	—	—	—		
	50'	39	28,400	11,750	14,050		80'	54	13,425	4,300	5,750		120'	52	5,400	—	—	—	—	—	—		
	60'	18	22,025	9,075	11,025		90'	48	11,150	3,250	5,550		130'	48	4,400	—	—	—	—	—	—		
							100'	42	9,375	2,425	3,575		140'	44	3,575	—	—	—	—	—	—	—	
70'	16'	79	135,000*	54,325	59,325	140'	35'	77	46,625	17,275	20,350	200'	50'	76	25,875	—	—	—	—	—			
	20'	76	107,825*	39,725	44,400		40'	75	37,875	14,175	16,900		60'	73	19,325	—	—	—	—	—			
	25'	72	82,625	29,375	33,450		45'	73	31,675	11,825	14,300		70'	70	15,000	—	—	—	—	—			
	30'	67	60,625	23,000	26,575		50'	70	27,025	10,000	12,250		80'	67	11,900	—	—	—	—	—			
	35'	63	47,550	18,725	21,850		60'	66	20,575	7,325	9,225		90'	64	9,575	—	—	—	—	—			
	40'	58	38,900	15,625	18,425		70'	61	16,275	5,450	7,100		100'	61	7,775	—	—	—	—	—			
	45'	53	32,775	13,275	15,800		80'	57	13,225	4,100	5,525		110'	58	6,325	—	—	—	—	—			
	50'	48	28,175	11,450	13,750		90'	52	10,950	3,025	4,325		120'	54	5,150	—	—	—	—	—			
	60'	36	21,775	8,800	10,725		100'	46	9,175	2,200	3,375		130'	51	4,175	—	—	—	—	—			
	70'	18	17,550	6,925	8,600		110'	40	7,750	1,525	2,600		140'	47	3,350	—	—	—	—	—			
80'	17'	80	120,000*	49,700	54,625	150'	35'	78	46,500	17,025	20,075	Capacities Below Incl. Jib (See Jib Data)	Capacities Over Side or Rear Outriggers Down										
	20'	78	107,600*	39,600	44,250		40'	76	37,725	13,925	16,650		Boom Plus Jib Lgth.	Jib Rad.	Capacity								
	25'	74	82,575	29,225	33,300		45'	74	31,500	11,575	14,025												
	30'	70	60,575	22,875	26,425		50'	72	26,850	9,750	11,975		210'	50'	25,850								
	35'	67	47,475	18,575	21,700		60'	68	20,375	7,050	8,950		60'	70'	19,300								
	40'	63	38,825	15,475	18,275		70'	63	16,050	5,175	6,825		70'	70'	14,950								
	45'	58	32,675	13,150	15,650		80'	59	13,000	3,800	5,250		80'	80'	11,675								
	50'	54	28,075	11,325	13,600		90'	55	10,700	2,750	4,050		90'	90'	9,225								
	60'	45	21,675	8,650	10,575		100'	49	8,925	1,925	3,075		100'	100'	7,325								
	70'	35	17,425	6,775	8,450		110'	44	7,500	—	2,300		110'	110'	5,825								
80'	16	14,400	5,425	6,875	120'	38	6,325	—	1,650	120'	120'	4,575											
90'	19'	80	110,000*	42,350	49,075	160'	40'	77	37,600	—	—	220'	60'	70'	19,275								
	20'	79	105,000*	39,425	44,250		45'	75	31,350	—	—		70'	70'	14,925								
	25'	76	82,550	29,025	33,075		50'	73	26,700	—	—		80'	80'	11,650								
	30'	73	60,500	22,650	26,175		60'	69	20,200	—	—		90'	90'	9,200								
	35'	69	47,350	18,350	21,450		70'	65	15,875	—	—		100'	100'	7,300								
	40'	66	38,675	15,225	18,000		80'	61	12,800	—	—		110'	110'	5,800								
	45'	62	32,500	12,900	15,375		90'	57	10,500	—	—		120'	120'	4,550								
	50'	59	27,875	11,050	13,325		100'	52	8,725	—	—		130'	130'	3,525								
	60'	51	21,475	8,375	10,300		110'	48	7,275	—	—		140'	140'	2,650								
	70'	42	17,200	6,500	8,175		120'	42	6,125	—	—		150'	150'	1,900								
80'	31	14,150	5,125	6,600	130'	37	5,150	—	—	230'	70'	10,000											
90'	15	11,900	4,075	5,375	140'	30	4,325	—	—		80'	10,000											
100'	20'	80	92,000*	39,225	43,850	150'	23	3,850	—		—	90'	9,175										
	25'	77	82,525	28,825	32,850	40'	76	31,125	—		—	100'	7,275										
	30'	74	60,375	22,450	25,950	50'	74	26,450	—		—	110'	5,775										
	35'	71	47,200	18,125	21,225	60'	70	19,925	—		—	120'	4,525										
	40'	68	38,500	15,025	17,775	70'	67	15,600	—		—	130'	3,500										
	45'	65	32,325	12,675	15,175	80'	63	12,500	—		—	140'	2,625										
	50'	62	27,700	10,850	13,100	90'	59	10,200	—		—	150'	1,875										
	60'	55	21,275	8,150	10,075	100'	55	8,400	—		—	Capacities per SAE Code J765 Class Designation per U.S. Department of Commerce Standards	70'	10,000									
	70'	49	17,000	6,275	7,950	110'	51	6,975	—	—	80'		10,000										
	80'	39	13,950	4,900	6,375	120'	46	5,800	—	—	90'		9,175										
90'	30	11,675	3,850	5,150	130'	42	4,825	—	—	100'	7,275												
100'	14	9,925	3,025	4,200	140'	36	4,000	—	—	110'	5,775												
110'	25'	79	82,450	28,475	32,500	150'	30	3,625	—	—	120'		4,525										
	30'	76	60,150	22,100	25,600	160'	23	2,700	—	—	130'		3,500										
	35'	73	46,950	17,775	20,875	170'	11	2,150	—	—	140'		2,625										
	40'	70	38,225	14,675	17,425						150'		1,875										
	45'	68	32,050	12,325	14,800																		
	50'	65	27,425	10,500	12,750																		
	60'	59	20,975	7,800	9,725																		
	70'	52	16,700	5,950	7,575																		
	80'	45	13,650	4,575	6,025																		
	90'	38	11,350	3,500	4,800																		
100'	28	9,575	2,675	3,850																			
110'	13	8,175	2,000	3,050																			

This capacity chart is based upon:

1. Loads marked by \* are the maximum allowable loads permitted by structural strength of the parts, and are not based on the stability of the machine.
2. All other loads are based on stability, and do not exceed 85% of tipping in the least stable direction.
3. Machine to be leveled on firm solid support; shock and side loading are to be prevented.
4. Machine equipped with hydraulic outriggers.
5. All hook blocks, lifting tackle, or jib attachments are considered a part of the load to be lifted.
6. "Outriggers Down" capacities are based upon having all tires within boundary of outriggers free of ground and outriggers fully extended.
7. "Outriggers Up" capacities are not recommended for traveling (refer to Lima for travel load rating).
8. Exceeding these capacities, or altering the counterweight nullifies all warranties.
9. Loads should not be handled over front of carrier.
10. Capacities above dotted line require a wire rope of length greater than furnished as standard with the machine.

Capacities per SAE Code J765  
Class Designation per U.S. Department of Commerce Standards

# CLARK 700TC DRAGLINE AND CLAMSHELL WORKING RANGES



## DRAGLINE-CLAMSHELL-MAGNET CAPACITIES

MACHINE EQUIPPED WITH 20,260 LBS. (9190 kg.) CWT.

METRIC CHART (KILOGRAMS)

Load Radius	Boom Length and Boom Angle			
	50'	∠°	60'	∠°
20'	31,150	70	31,100	74
25'	23,150	64	23,100	69
30'	18,250	57	18,150	63
35'	14,900	50	14,800	58
40'	12,500	42	12,400	52
45'	10,700	33	10,600	46
50'	9,300	20	9,200	39
55'		—	8,050	30
60'		—	7,150	19

Load Radius (In Meters)	Boom Length and Boom Angle			
	15.24m	∠°	18.29m	∠°
6	14130	70.6	14105	73.9
8	9945	62.3	9925	67.2
10	7425	53.5	7375	60.3
12	5805	43.4	5760	52.7
14	4735	30.9	4690	44.4
16	4200	8.5	4155	34.5
18	—	—	3320	21.0

∠° Indicates Boom Angle

NOTE: To maintain normal operating speeds the loaded bucket or magnet weight must not exceed 9,500 lbs. (4310kg.). Loads greater than 9,500 lbs. (4310kg.) require multiple reeving of the hoist line. Digging and footing conditions, together with skill of the operator, will determine whether or not the maximum loading conditions stated above can be used.

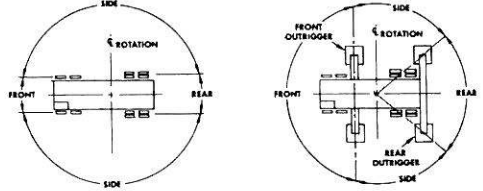
68 METRIC TONS CLASS 4,6-180

MAX. CWT. - 9190 kg.

Capacities Below Include Jib See Jib Data

Boom			Outriggers Extended and Set Side/Rear	Outriggers Up		Boom			Outriggers Extended and Set Side/Rear	Outriggers Up		Boom			Outriggers Extended and Set Side/Rear	Outriggers Up		Boom Plus Jib		Outriggers Extended and Set Side/Rear
Lgth.	Rad.	Angle		Side	Rear	Lgth.	Rad.	Angle		Side	Rear	Lgth.	Rad.	Angle		Side	Rear	Lgth.	Load Rad.	
15,2	4,5	76,4	68,000*	27,150	29,450	39,6	9	78,1	27,225	10,125	11,725	57,9	15	75,7	11,875	64,0 (57,9 +6,1)	15	11,775		
	6	70,2	50,425*	18,550	20,725		11	75,0	20,225	7,600	8,950		18	72,6	9,125		18	9,025		
	7	66,1	42,250*	15,100	17,075		13	72,0	15,675	5,925	7,100		21	69,4	7,100		21	7,000		
	9	57,4	28,250	10,850	12,500		15	68,9	12,650	4,750	5,800		24	66,1	5,650		24	5,475		
	11	47,8	20,675	8,375	9,750		18	64,0	9,650	3,525	4,400		27	62,8	4,575		27	4,325		
	13	36,4	16,200	6,725	7,925		21	59,0	7,650	2,650	3,400		30	59,3	3,750		30	3,450		
	15	20,3	13,250	5,550	6,600		24	53,7	6,250	2,025	2,675		33	55,8	3,075		33	2,750		
							27	48,1	5,175	1,525	2,125		36	52,0	2,525		36	2,175		
18,3	4,5	78,7	66,000*	27,125	29,375	42,7	11	76,1	20,150	7,500	8,850	61,0	15	76,4	11,725	67,1 (61,0 +6,1)	18	9,000		
	6	73,6	50,150*	18,500	20,650		13	73,3	15,575	5,825	7,000		18	73,5	9,000		21	6,975		
	7	70,3	42,200*	15,025	17,000		15	70,4	12,550	4,650	5,675		21	70,5	6,975		24	5,450		
	9	63,4	28,225	10,775	12,400		18	66,0	9,550	3,425	4,275		24	67,4	5,550		27	4,300		
	11	56,0	20,650	8,275	9,650		21	61,5	7,575	2,550	3,300		27	64,2	4,475		30	3,425		
	13	47,9	16,150	6,625	7,825		24	56,7	6,150	1,925	2,575		30	61,0	3,625		33	2,725		
	15	38,6	13,175	5,450	6,500		27	51,6	5,100	1,425	2,025		33	57,7	2,975		36	2,150		
	18	18,5	10,200	4,225	5,100		30	46,2	4,275	1,050	1,575		36	54,2	2,425		39	1,675		
21,3	4,9	79,3	61,000*	24,625	26,900	45,7	11	77,1	20,075	7,375	8,725	48,8	39	50,6	1,975	70,1 (54,9 +15,2)	21	4,525		
	6	76,0	49,875*	18,425	20,550		13	74,4	15,500	5,725	6,875		42	46,8	1,600		24	4,525		
	7	73,2	42,125*	14,925	16,875		15	71,8	12,475	4,525	5,550		45	42,7	1,250		27	4,275		
	9	67,4	28,200	10,650	12,300		18	67,7	9,450	3,300	4,150		48	38,3	950		30	3,400		
	11	61,3	20,575	8,150	9,525		21	63,5	7,450	2,425	3,175						33	2,700		
	13	54,9	16,050	6,500	7,675		24	59,2	6,050	1,800	2,450						36	2,125		
	15	47,9	13,075	5,325	6,375		27	54,6	4,975	1,300	1,900						39	1,650		
	18	35,6	10,100	4,075	4,975		30	49,8	4,150	900	1,450						42	1,225		
21	17,1	8,125	3,225	3,975	33	44,5	3,500		1,100				45	900						
24,4	5,2	79,9	54,300*	22,525	24,775	48,8	36	38,8	2,950		750	51,8	15	74,0	13,675	51,8	15	11,925		
	6	77,8	49,400*	18,350	20,475		39	32,2	2,500					18	71,6		9,200	18	9,200	
	7	75,3	42,075*	14,875	16,825		42	24,7	2,125					21	68,2		7,175	21	7,175	
	9	70,3	28,175	10,600	12,225		45	11,7	1,800					24	64,7		5,750	24	5,750	
	11	65,2	20,550	8,075	9,450		12	76,7	17,050					27	61,1		4,675	27	4,675	
	13	59,8	16,025	6,425	7,625		13	75,4	15,450					30	57,4		3,925	30	3,925	
	15	54,1	13,025	5,250	6,300		15	73,0	12,400					33	55,3		3,250	33	3,250	
	18	44,7	10,050	4,025	4,900		18	69,2	9,375					36	46,6		2,725	36	2,725	
21	33,2	8,075	3,150	3,925	21	65,3	7,375				39	41,7	2,275	39	2,275					
27,4	5,8	79,8	49,825*	19,200	22,250	51,8	24	61,3	5,950			54,9	42	40,5	1,825	54,9	42	1,825		
	6	79,2	48,325*	18,275	20,400		27	57,1	4,900					45	35,3		1,500	45	1,500	
	7	77,0	41,575*	14,775	16,725		30	52,7	4,075					48	29,3		1,200	48	1,200	
	9	72,6	28,150	10,550	12,100		33	48,1	3,400					51	10,9		1,025	51	1,025	
	11	68,1	20,475	7,975	9,350		36	43,1	2,875											
	13	63,4	15,950	6,300	7,500		39	37,5	2,425											
	15	58,6	12,925	5,125	6,175		42	31,2	2,025											
	18	50,8	9,950	3,900	4,775		45	23,3	1,700											
21	42,0	7,975	3,025	3,800	48	11,3	1,425													
30,5	6	80,3	41,725*	18,200	20,300	54,9	15	74,9	11,925			58,0	15	74,9	11,925	58,0	15	11,925		
	7	78,3	39,175*	14,675	16,625		18	71,6	9,200					18	71,6		9,200	18	9,200	
	9	74,4	28,100	10,400	12,025		21	68,2	7,175					21	68,2		7,175	21	7,175	
	11	70,4	20,425	7,875	9,250		24	63,1	5,825					24	63,1		5,825	24	5,825	
	13	66,3	15,850	6,200	7,400		27	59,3	4,925					27	59,3		4,925	27	4,925	
	15	62,0	12,850	5,025	6,075		30	55,3	3,925					30	55,3		3,925	30	3,925	
	18	55,3	9,875	3,800	4,675		33	51,0	3,250					33	51,0		3,250	33	3,250	
	21	48,0	7,875	2,925	3,700		36	46,6	2,725					36	46,6		2,725	36	2,725	
24	39,7	6,475	2,300	2,975	39	41,7	2,275				39	41,7	2,275	39	2,275					
33,5	7	79,4	37,400	14,550	16,475	58,0	42	36,4	1,900			61,1	42	36,4	1,900	61,1	42	1,900		
	9	75,8	28,000	10,250	11,850		45	30,2	1,575					45	30,2		1,575	45	1,575	
	11	72,2	20,300	7,725	9,075		48	22,6	1,275					48	22,6		1,275	48	1,275	
	13	68,5	15,750	6,050	7,225		51	10,9	1,025					51	10,9		1,025	51	1,025	
	15	64,8	12,725	4,875	5,925															
	18	58,8	9,725	3,625	4,500															
	21	52,5	7,750	2,775	3,525															
	24	45,6	6,325	2,125	2,800															
27	37,8	5,275	1,650	2,250																
36,6	9	77,0	27,275	10,225	11,825	61,1	15	74,9	11,925			64,2	15	74,9	11,925	64,2	15	11,925		
	11	73,8	20,275	7,700	9,050		18	71,6	9,200					18	71,6		9,200	18	9,200	
	13	70,4	15,725	6,025	7,200		21	68,2	7,175					21	68,2		7,175	21	7,175	
	15	67,0	12,700	4,850	5,900		24	64,7	5,750					24	64,7		5,750	24	5,750	
	18	61,7	9,700	3,600	4,475		27	61,1	4,675					27	61,1		4,675	27	4,675	
	21	56,1	7,725	2,750	3,500		30	57,4	3,850					30	57,4		3,850	30	3,850	
	24	50,1	6,300	2,100	2,775		33	53,6	3,200					33	53,6		3,200	33	3,200	
	27	43,6	5,250	1,625	2,225		36	49,5	2,650					36	49,5		2,650	36	2,650	
30	36,1	4,425	1,225	1,775	39	45,2	2,200				39	45,2	2,200	39	2,200					
33	27,0	3,775	925	1,425	42	40,5	1,825				42	40,5	1,825	42	1,825					
36	13,0	3,275	675	1,150	45	35,3	1,500				45	35,3	1,500	45	1,500					
					48	29,3	1,200				48	29,3	1,200	48	1,200					
					51	22,0	925				51	22,0	925	51	925					

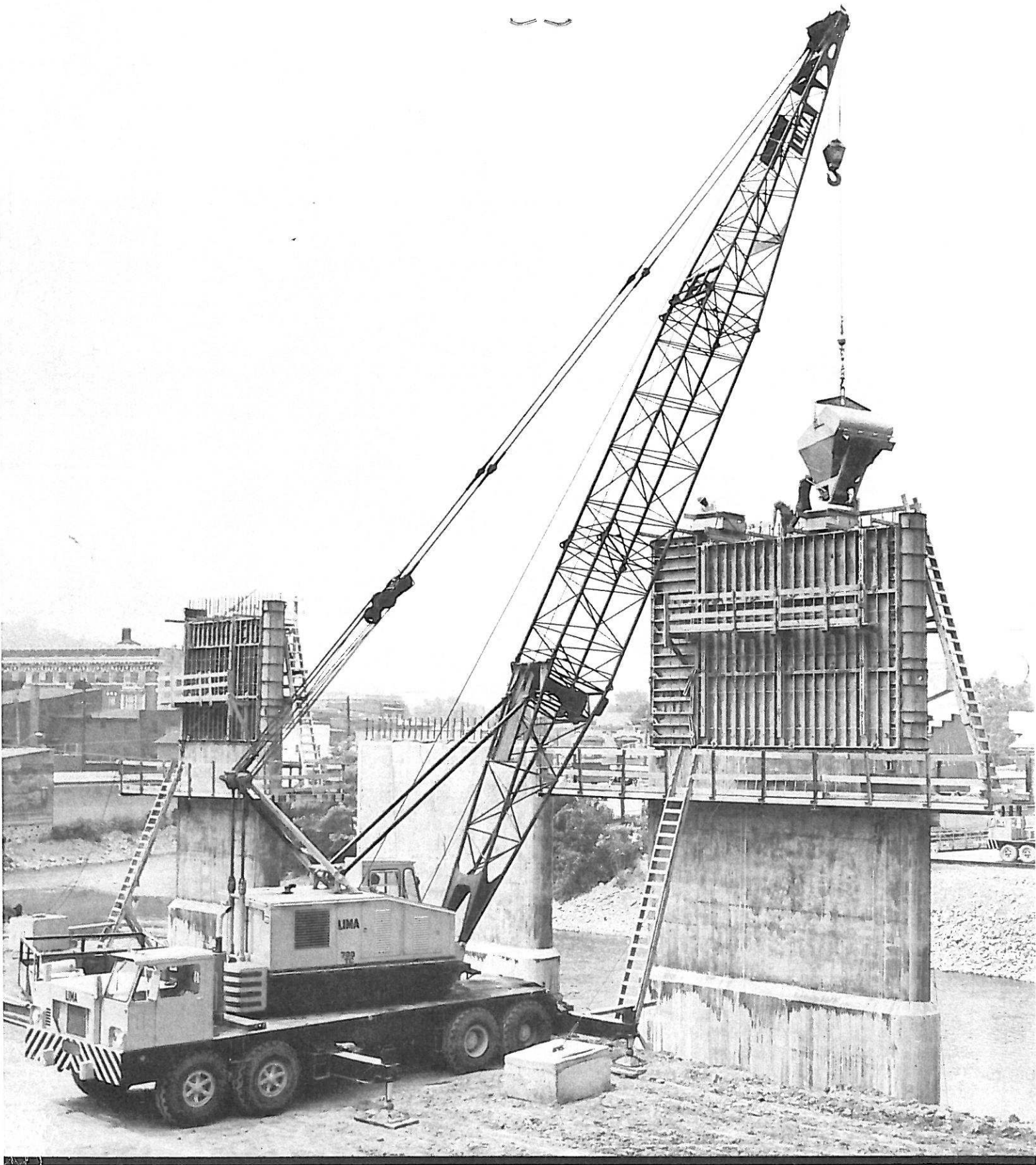
DIAGRAMMATIC DEFINITION OF "SIDE", "REAR", OR "FRONT" AS USED ON CAPACITY CHARTS.



NOTE:

- All capacities are in kilograms.
- All lengths and radii are in meters.
- Capacities per SAE Code J765.
- Class Designation per U.S. Department of Commerce Standards.

- This capacity chart is based upon:
- Loads marked by \* are the maximum allowable loads permitted by structural strength of the parts, and are not based on the stability of the machine.
  - All other loads are based on stability, and do not exceed 85% of tipping in the least stable direction.
  - Machine to be leveled on firm solid support; shock and side loading are to be prevented.
  - All hook blocks, lifting tackle, or jib attachments are considered a part of the load to be lifted.
  - "Outriggers Set" capacities are based upon having all tires within boundary of outriggers free of ground



In accordance with our established policy of constantly improving our products, we reserve the right to change or modify our products or our product specifications at any time without notice.



**CLARK EQUIPMENT COMPANY**  
**LIMA DIVISION**  
LIMA, OHIO 45802

Manufactured and Sold in Conformance with U. S. Department of Commerce Commercial Standard C590-58.

