

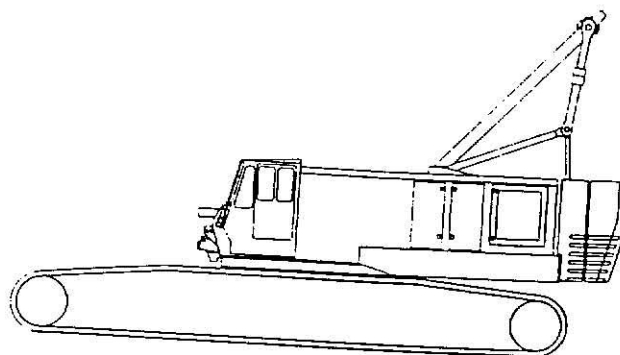


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p. 2

CLARK 7707 Crawler Crane

300 Ton Capacity

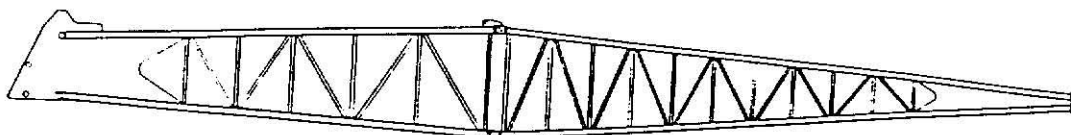


B-1

BASIC MACHINE

Equipment includes: 36'8" (11.18M) long hydraulically driven crawlers with 56" (1.42M) wide treads; hydraulic pumps, valving and controls for propel; engine (See Item No. B0-100) 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 two ranges and power controlled lowering on all drums; multi-position hydraulically controlled environmental cab; fire extinguisher, anti-skid paint, steps for access to cab roof; full hydraulic swing system; roller bearing swing circle; cab shutters; counterweight 99,300# (45043kg); hydraulically controlled backhitch gantry; positive swing lock running boards with handrails; signal horn; air and electric control equipment.

464,535 LBS. (210713kg)



A-2

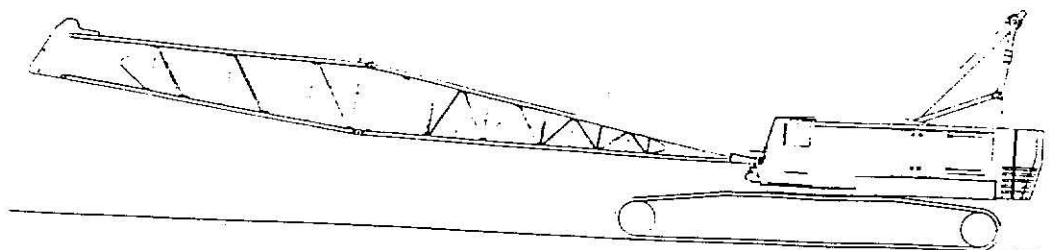
CRANE ATTACHMENT

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.

AA

CRANE (INCLUDING ITEM NOS. B-1 & A-2)

495,900 LBS. (224940kg)

Lift Capacity Chart



CLARK 7707 Crawler Crane

300 Ton Capacity

BOOM DATA

Component	Light Duty Boom	Heavy Duty Boom
Point Shaft		
30' (9.14M) Point Section	1,100 Lbs. (499kg.)	2,600 Lbs. (1179kg.)
40' (12.19M) Base Section	5,160 Lbs. (2341kg.)	6,890 Lbs. (3125kg.)
Basic Pendants Base Section	7,725 Lbs. (3504kg.)	7,725 Lbs. (3504kg.)
10' (3.05M) Extension With Pendants	800 Lbs. (363kg.)	970 Lbs. (440kg.)
20' (6.10M) Extension With Pendants	1,825 Lbs. (828kg.)	1,895 Lbs. (860kg.)
40' (12.19M) Extension With Pendants	2,900 Lbs. (1315kg.)	2,975 Lbs. (1349kg.)
40' (12.19M) Mast	4,995 Lbs. (2266kg.)	5,095 Lbs. (2311kg.)
Boom Stop	8,275 Lbs. (3754kg.)	8,275 Lbs. (3754kg.)
Midpoint Suspension	1,365 Lbs. (619kg.)	1,365 Lbs. (619kg.)
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 1/2" (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).

JIB DATA

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.)

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.)

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 7707 Crawler Crane

300 Ton Capacity

MAXIMUM BOOM OR BOOM PLUS JIB THAT CAN BE HANDLED HORIZONTALLY		
Over Side Narrow Crawler	Over Side Wide Crawler	Over End
270' (82.30M)	330' (100.58M)	330' (100.58M)
220' (67.06M) + 40' (12.19M)	320' (97.54M) + 40' (12.19M)	330' (100.58M) + 40' (12.19M)
220' (67.06M) + 50' (15.24M)	310' (94.49M) + 50' (15.24M)	320' (97.54M) + 50' (15.24M)
210' (64.01M) + 60' (18.29M)	310' (94.49M) + 60' (18.29M)	320' (97.54M) + 60' (18.29M)
200' (60.96M) + 70' (21.34M)	310' (94.49M) + 70' (21.34M)	320' (97.54M) + 70' (21.34M)
200' (60.96M) + 80' (24.38M)	300' (91.44M) + 80' (24.38M)	310' (94.49M) + 80' (24.38M)
200' (60.96M) + 90' (27.43M)	290' (88.39M) + 90' (27.43M)	310' (94.49M) + 90' (27.43M)
190' (57.91M) + 100' (30.48M)	290' (88.39M) + 100' (30.48M)	300' (91.44M) + 100' (30.48M)

BOOM AND JIB DATA

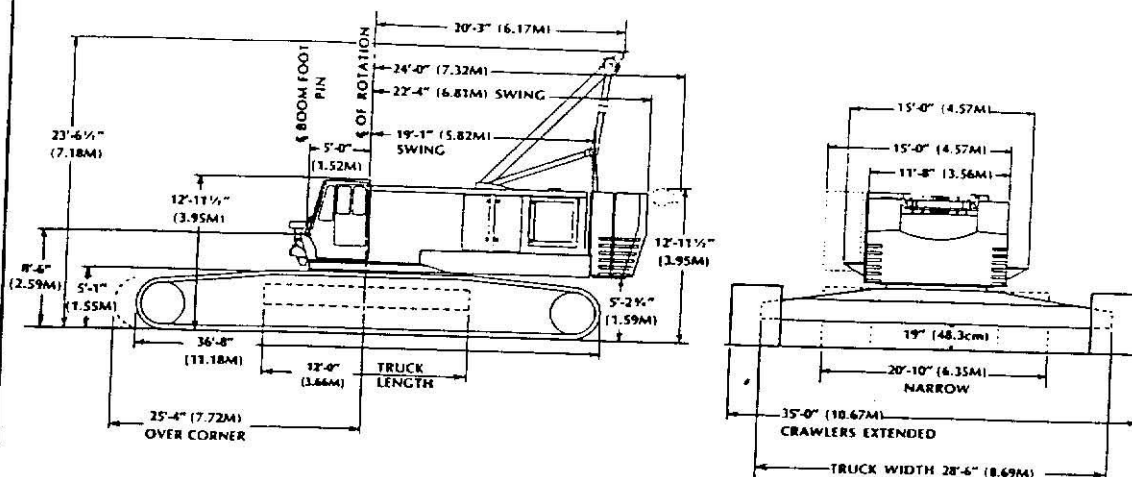
JIB	
Basic Length	40' (12.19M)
Max. Length	100' (30.48M)
Section	46" x 52" (1.7M x 1.32M)
Chord Size	2 1/2" (6.35cm) O.D. Tube
Chord Material	100,000 P.S.I. (68944 N/cm ²)
Quan. Sheaves at Point	One (1)
P.D. Point Sheave	21-3/8" (54.3cm) P.D.
Capacity	
40' (12.19M)	40 Tons (36.3 Tons)
50' (15.24M)	31 1/2 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)	15 1/2 Tons (14.1 Tons)
100' (30.48M)	13 1/2 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 ²) 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

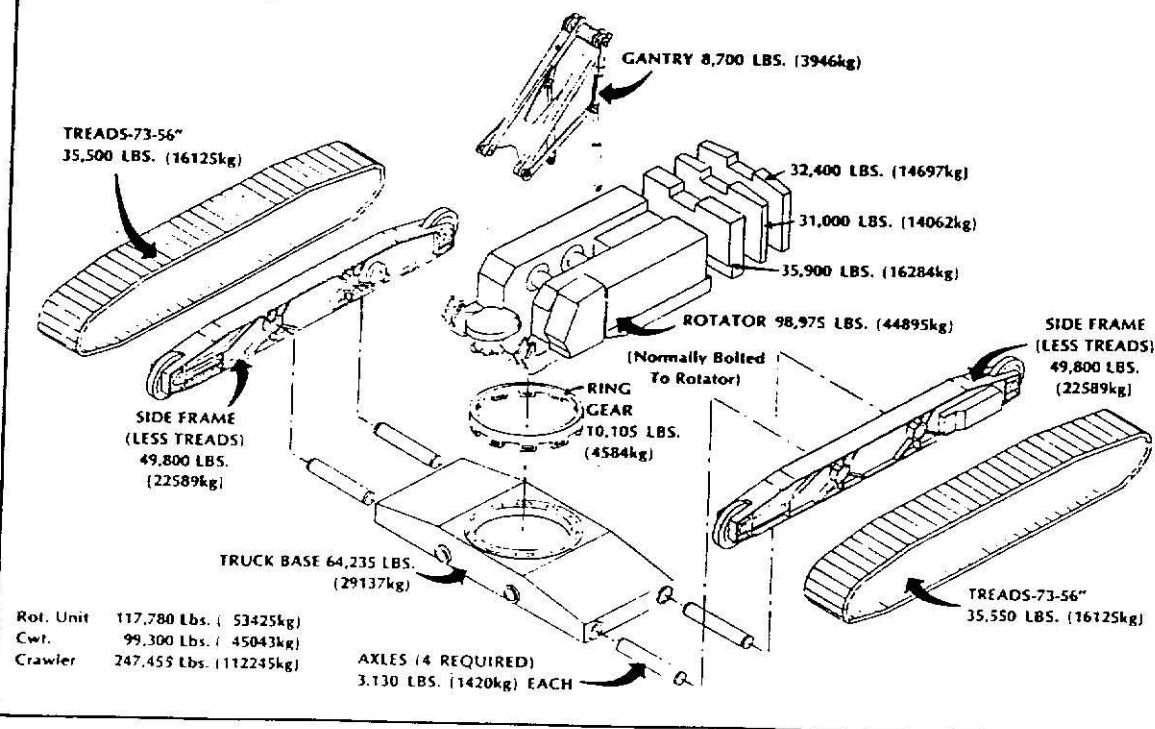
CLARK 7707 Crawler Crane

300 Ton Capacity

CLEARANCE & DIMENSIONS



WEIGHTS OF COMPONENT PARTS 7707





CLARK 7707 Crawler Crane

300 Ton Capacity

POWER PLANT DATA

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 ² (3342cm ²)	Band	6" (15.24cm)	50" (127cm)	748 In ² (4826cm ²)
Auxiliary Hoist	Band	4 1/2" (11.43cm)	43" (109.2cm)	518 In ² (3342cm ²)	Band	6" (15.24cm)	50" (127cm)	748 In ² (4826cm ²)
Boom Hoist	Band	—	—	—	Band	4" (101.6cm)	15" (38.1cm)	145 In ² (935cm ²)
Swing Brake	Band	—	—	—	Band	4" (10.16cm)	26" (66cm)	258 In ² (1665cm ²)
Third Drum	Band	4 1/2" (11.43cm)	43" (109.2cm)	518 In ² (3342cm ²)	Band	6" (15.24cm)	50" (127cm)	748 In ² (4826cm ²)

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 Gal. (757 Liters)
Travel Speed	375 M.P.H. (604 Km P.H.)

CLARK 7707

300 Ton Capacity

Boom				Narrow Crawler	Wide Crawler	Boom				Narrow Crawler	Wide Crawler	Boom				Narrow Crawler	Wide Crawler	Boom				Narrow Crawler	Wide Crawler
L	R	A	H			L	R	A	H			L	R	A	H			L	R	A	H		
70'	18	81.0	77.5	522,300	1600,000	150'	35	79.3	155.6	179,000	129,800	210'	45	79.6	214.8	124,500	201,800	260'	60	78.2	264.8	81,400	111,400
	20	79.4	77.1	429,900	1517,700		40	77.3	154.5	148,400	125,200		50	78.2	211.8	102,100	173,100		70	75.9	260.4	65,300	107,800
	25	75.1	75.8	296,300	1480,700		45	75.3	153.2	126,300	121,000		60	75.4	211.1	82,900	151,400		80	71.6	257.6	53,400	89,500
	30	70.8	74.1	224,500	1391,900		50	71.1	151.8	109,200	194,100		70	72.5	208.4	66,500	108,800		100	71.1	254.4	44,400	76,100
	35	66.4	71.9	179,800	128,900		60	69.1	148.2	84,900	151,700		80	69.6	204.8	54,600	90,100		120	69.0	250.7	37,300	65,700
	40	61.7	69.3	149,200	123,100		70	65.1	143.8	68,600	121,400		90	66.7	200.7	45,700	76,600		140	66.6	246.5	31,700	57,100
	45	56.9	66.1	127,000	105,900		80	60.8	138.5	56,800	100,500		100	63.7	196.0	38,700	66,300		170	64.2	241.9	27,000	50,800
	50	51.7	62.3	110,100	100,100		90	56.3	132.2	47,900	85,000		120	60.5	190.5	33,000	52,800		190	61.7	236.6	23,100	44,600
	60	40.0	52.0	86,100	152,500		100	51.5	124.7	40,900	73,100		140	57.3	184.4	28,400	50,800		240	59.1	230.9	19,800	39,100
	70	23.6	34.7	70,000	122,200		120	40.7	105.0	30,800	55,600		160	50.5	169.5	21,300	40,200		260	56.5	224.5	17,000	34,000
80'	25	77.0	86.1	296,200	1480,100	160'	35	79.9	165.8	178,900	128,200	220'	50	78.7	224.0	107,200	173,100	270'	65	78.6	273.0	81,800	133,000
	30	73.3	84.7	224,400	1390,900		40	78.1	164.8	148,300	127,500		60	76.0	221.7	82,800	133,800		80	74.3	268.0	53,300	89,400
	35	69.5	82.9	179,700	1328,100		45	76.3	163.6	126,100	126,000		70	73.3	218.5	66,400	106,200		100	72.0	264.9	44,300	76,000
	40	65.6	80.6	149,100	1282,900		50	74.4	162.2	109,000	190,600		80	70.6	215.5	54,500	89,900		120	69.8	261.4	37,200	65,600
	45	61.5	78.0	126,900	1235,800		60	70.6	158.9	84,800	151,600		90	67.8	211.6	45,600	76,500		140	67.5	257.4	31,600	57,200
	50	57.3	74.8	110,000	100,000		70	66.8	154.9	68,400	121,300		100	64.9	207.1	38,600	66,100		170	65.2	252.1	26,900	50,200
	60	48.1	66.8	86,000	152,400		80																

Lift Capacity Chart

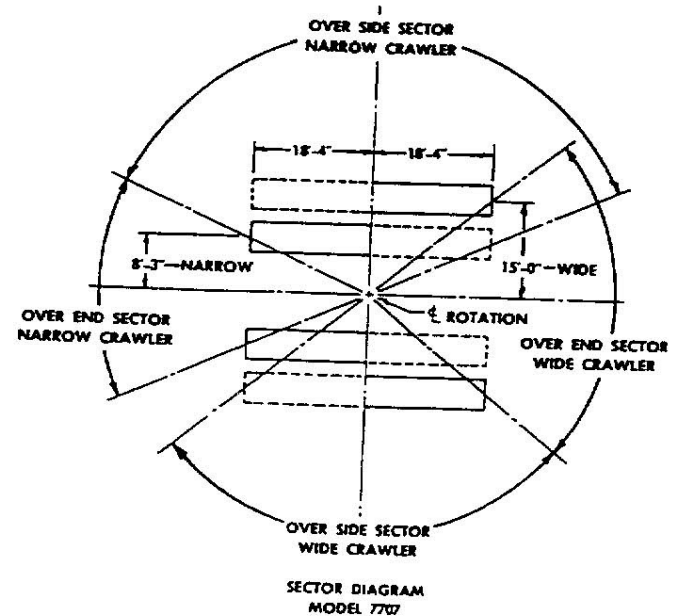


CLARK 7707

300 Ton Capacity

MAXIMUM COUNTERWEIGHT - 99,300 LBS.

Boom					Narrow Crawler		Wide Crawler		Capacities Below Apply to Jibs - See Job Data											
L	R	A	H						Boom Plus Jib			Wide Crawler			Boom Plus Jib			Wide Crawler		
					Length	Radius			Length	Radius		Length	Radius		Length	Radius		Length	Radius	
100'	70'	79.8	101.5	81.5	124,800	81,500	124,800	81,500	120'	120'	120'	120'	120'	120'	120'	120'	120'	120'	120'	120'
	70'	77.8	101.5	81.5	105,500	81,500	105,500	81,500		120'	120'		120'	120'		120'	120'		120'	120'
	70'	75.4	99.1	81.5	89,100	81,500	89,100	81,500		120'	120'		120'	120'		120'	120'		120'	120'
	70'	72.9	96.4	81.5	75,700	81,500	75,700	81,500		120'	120'		120'	120'		120'	120'		120'	120'
	70'	70.4	93.7	81.5	65,300	81,500	65,300	81,500		120'	120'		120'	120'		120'	120'		120'	120'
	70'	67.9	90.9	81.5	56,900	81,500	56,900	81,500		120'	120'		120'	120'		120'	120'		120'	120'
	70'	65.4	88.2	81.5	49,900	81,500	49,900	81,500		120'	120'		120'	120'		120'	120'		120'	120'
	70'	62.9	85.4	81.5	44,200	81,500	44,200	81,500		120'	120'		120'	120'		120'	120'		120'	120'
	70'	60.4	82.7	81.5	39,100	81,500	39,100	81,500		120'	120'		120'	120'		120'	120'		120'	120'
	70'	57.9	80.0	81.5	34,200	81,500	34,200	81,500		120'	120'		120'	120'		120'	120'		120'	120'
	70'	55.4	77.3	81.5	29,700	81,500	29,700	81,500		120'	120'		120'	120'		120'	120'		120'	120'
	70'	52.9	74.6	81.5	25,700	81,500	25,700	81,500		120'	120'		120'	120'		120'	120'		120'	120'
110'	80'	78.2	101.5	81.5	102,800	81,500	102,800	81,500	130'	130'	130'	130'	130'	130'	130'	130'	130'	130'	130'	130'
	80'	76.3	99.1	81.5	87,900	81,500	87,900	81,500		130'	130'		130'	130'		130'	130'		130'	130'
	80'	74.4	96.4	81.5	75,600	81,500	75,600	81,500		130'	130'		130'	130'		130'	130'		130'	130'
	80'	72.5	93.7	81.5	65,200	81,500	65,200	81,500		130'	130'		130'	130'		130'	130'		130'	130'
	80'	70.6	91.0	81.5	56,800	81,500	56,800	81,500		130'	130'		130'	130'		130'	130'		130'	130'
	80'	68.7	88.2	81.5	49,800	81,500	49,800	81,500		130'	130'		130'	130'		130'	130'		130'	130'
	80'	66.8	85.4	81.5	44,100	81,500	44,100	81,500		130'	130'		130'	130'		130'	130'		130'	130'
	80'	64.9	82.7	81.5	39,000	81,500	39,000	81,500		130'	130'		130'	130'		130'	130'		130'	130'
	80'	63.0	80.0	81.5	34,100	81,500	34,100	81,500		130'	130'		130'	130'		130'	130'		130'	130'
	80'	61.1	77.3	81.5	30,000	81,500	30,000	81,500		130'	130'		130'	130'		130'	130'		130'	130'
	80'	59.2	74.6	81.5	26,500	81,500	26,500	81,500		130'	130'		130'	130'		130'	130'		130'	130'
	80'	57.3	71.9	81.5	23,500	81,500	23,500	81,500		130'	130'		130'	130'		130'	130'		130'	130'
120'	90'	78.6	101.5	81.5	100,000	81,500	100,000	81,500	140'	140'	140'	140'	140'	140'	140'	140'	140'	140'	140'	140'
	90'	76.7	99.1	81.5	85,400	81,500	85,400	81,500		140'	140'		140'	140'		140'	140'		140'	140'
	90'	74.8	96.4	81.5	73,700	81,500	73,700	81,500		140'	140'		140'	140'		140'	140'		140'	140'
	90'	72.9	93.7	81.5	64,200	81,500	64,200	81,500		140'	140'		140'	140'		140'	140'		140'	140'
	90'	71.0	91.0	81.5	56,200	81,500	56,200	81,500		140'	140'		140'	140'		140'	140'		140'	140'
	90'	69.1	88.2	81.5	49,500	81,500	49,500	81,500		140'	140'		140'	140'		140'	140'		140'	140'
	90'	67.2	85.4	81.5	43,800	81,500	43,800	81,500		140'	140'		140'	140'		140'	140'		140'	140'
	90'	65.3	82.7	81.5	39,000	81,500	39,000	81,500		140'	140'		140'	140'		140'	140'		140'	140'
	90'	63.4	80.0	81.5	34,500	81,500	34,500	81,500		140'	140'		140'	140'		140'	140'		140'	140'
	90'	61.5	77.3	81.5	30,800	81,500	30,800	81,500		140'	140'		140'	140'		140'	140'		140'	140'
	90'	59.6	74.6	81.5	27,500	81,500	27,500	81,500		140'	140'		140'	140'		140'	140'		140'	140'
	90'	57.7	71.9	81.5	24,500	81,500	24,500	81,500		140'	140'		140'	140'		140'	140'		140'	140'



This Chart is Based Upon:

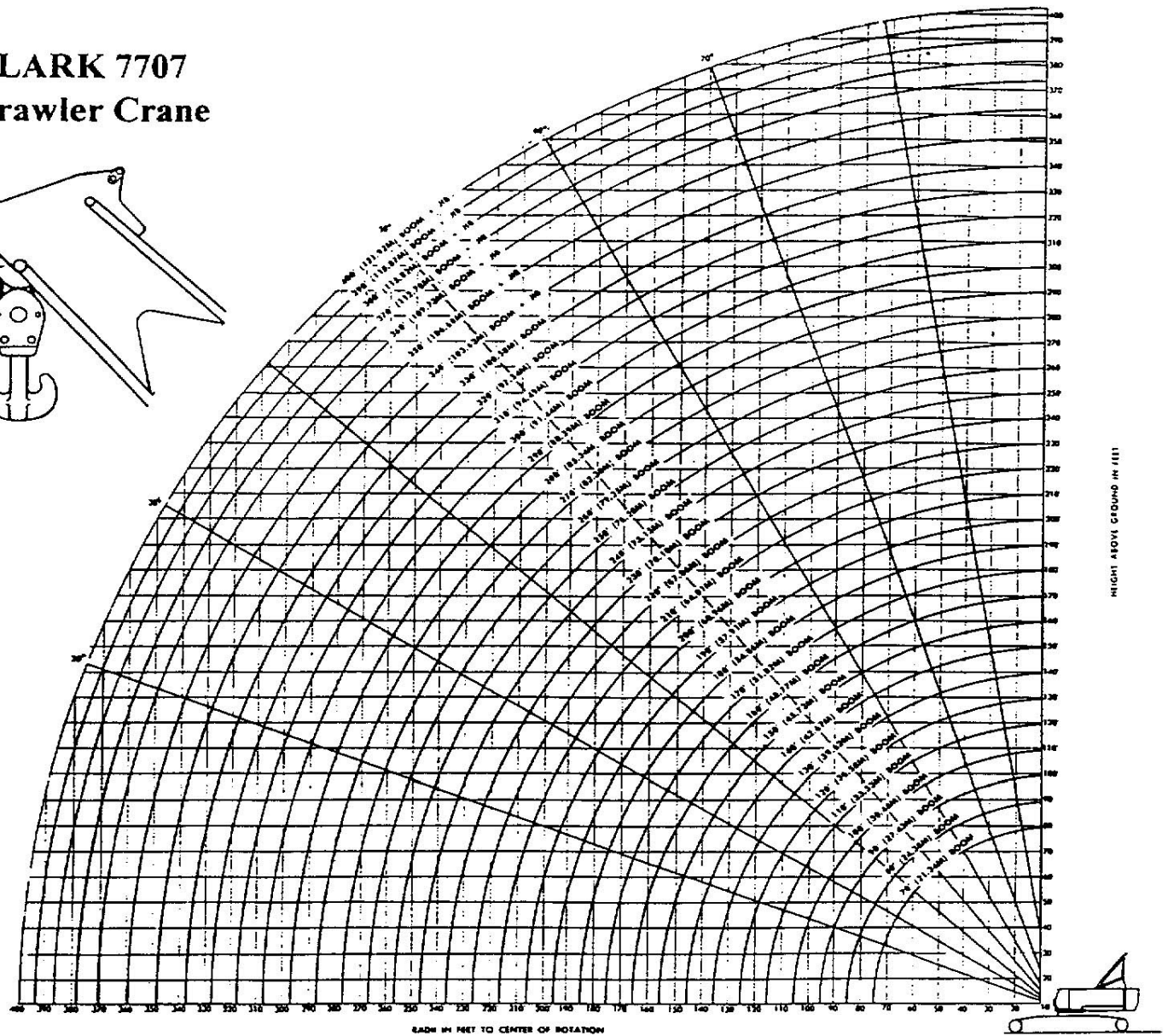
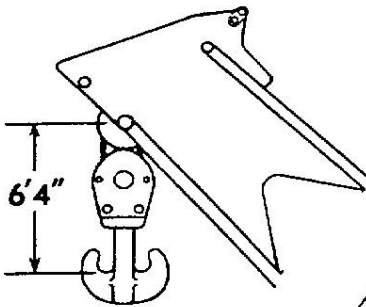
- Capacities marked by * are based upon structural limitations of the machine, all others do not exceed 75% or tipping in the least stable direction.
- When the machine is in the wide crawler configuration, the capacities listed under wide crawler may be used for full 360° operation.
- When the machine is in the narrow crawler configuration, the capacities listed under narrow crawler may be used for full 360° operation except as described in Note III below.
- Machine to be leveled on a firm solid support, shock and side loads are to be prevented.
- 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.
- Crane must be in fully raised position when handling booms or boom plus jib combinations.
- 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.
- Over the side of the machine is the least stable direction.

Capacities Per SAE Code 1-765
Class Designation Per U.S. Dept. of Commerce Standards

L = Boom Length
R = Load Radius from Centerline of Rotation
H = Height of Boom Pin to Shaft Above Ground
A = Boom Angle Above Horizontal

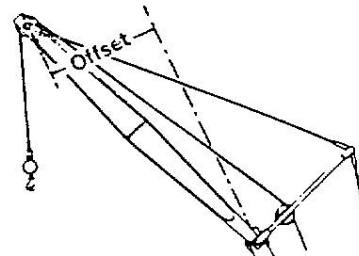


CLARK 7707 Crawler Crane



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)	31 1/2 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)	15 1/2 Tons (14.1 Tons)	31'-10" (9.70M)	8,775 Lbs (3980kg.)
100' (30.48M)	13 1/2 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.