



Crane Rental • Heavy Machinery Moving • Project Management

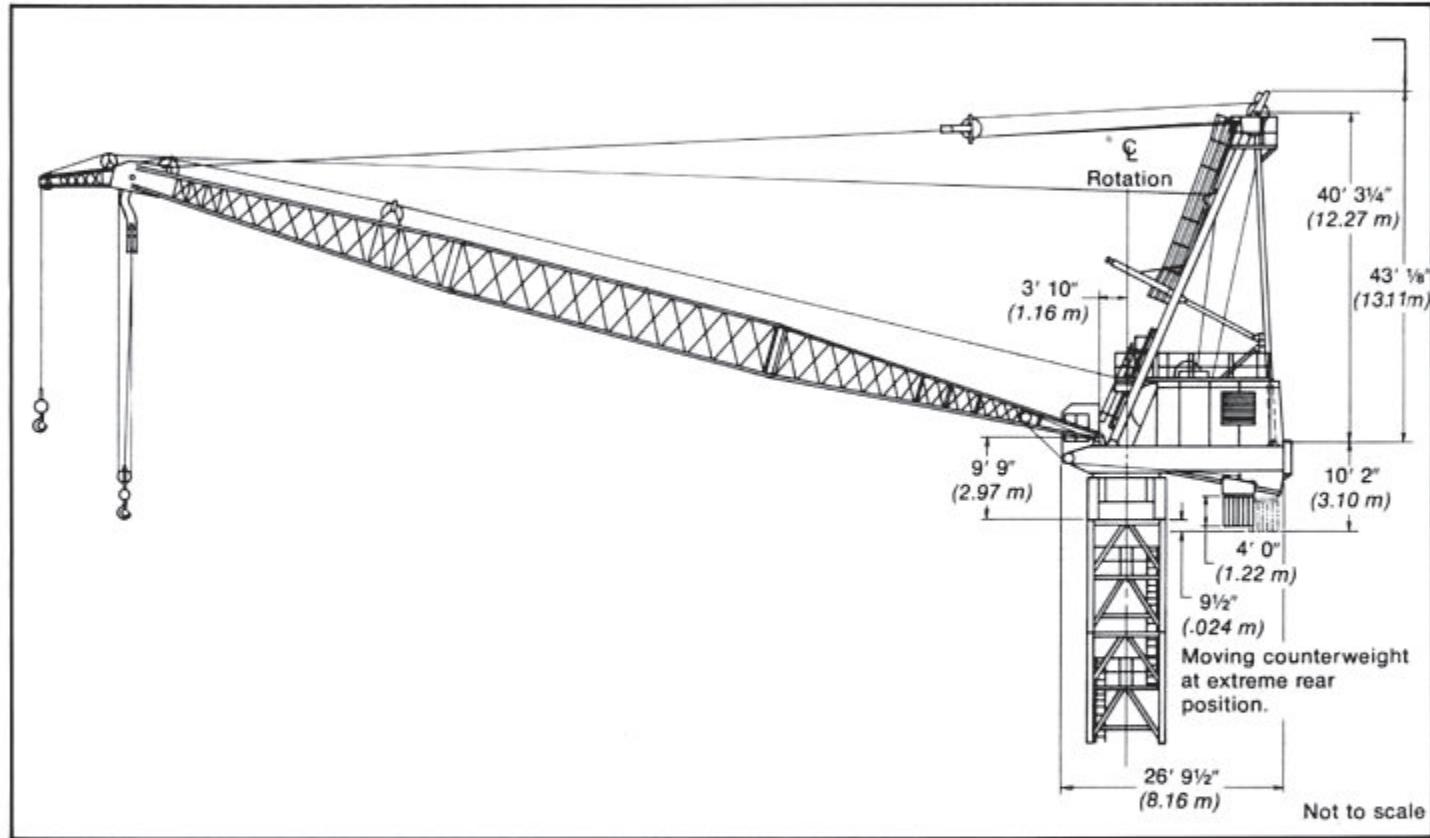
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General Specifications

Link-Belt® 115-ton (104.31 metric ton)

Tower/gantry crane

TG-1900



General dimensions	Feet	meters
Basic boom length	80' 0"	24.38
Maximum boom length	200' 0"	60.96
Length, optional boom tip extension	10' 0"	3.05
Tailswing	20' 10"	9.15
Over-all width, revolving upperstructure	13' 4"	4.06

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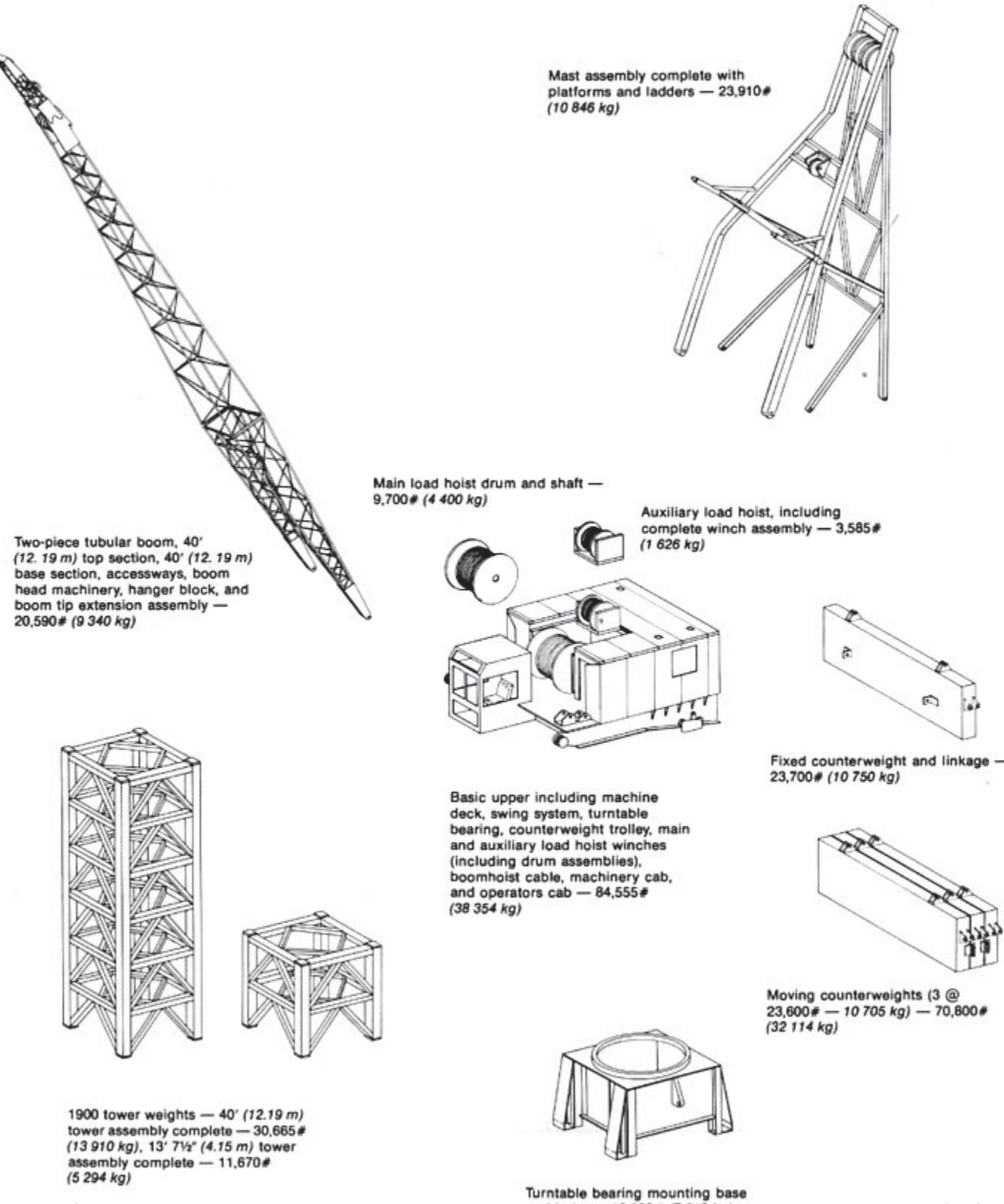
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Weights for transporting — approximate



5533 (supersedes 5489)-0608-N6

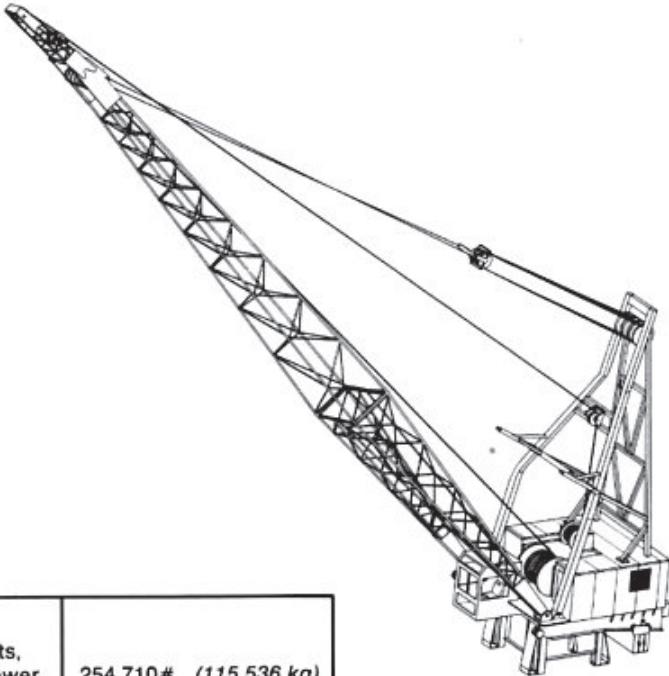
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Machine working weights — approximate

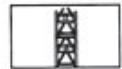
 Machine w/80' (24.38 m) boom, 10' (3.05 m) boom tip extension, including counterweights, all necessary operating equipment, but no tower.	254,710# (115 536 kg)
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General Specifications

Foundation

Foundation requirements and foundation reaction charts — consult factory.

Tower



Free standing tower
(non-climbing)

Welded, high strength, low alloy steel, wide flange beams. Sections 13' 7½" (4.15 m) or 40' (12.19 m) long, 9' 9" x 9' 9" (2.97 x 2.97 m) outside dimensions; bolted together on machined pads at each corner.

Climbing tower — consult factory.

Revolving upperstructure



Frame

All-welded, high strength, low alloy steel; machined to accommodate boom, mast, swing-system, main hoist drum mounting frame and drum, power unit and operator's cab. Optional: auxiliary hoist drum mounting frame and drum mounted on top of main hoist drum frame.



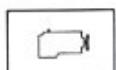
Turntable bearing mounting base

Welded, high-strength, low-alloy steel, wide-flange beam construction. The circular turntable bearing mounting pad, along with the tower connecting pads, are machined to assure squareness, proper fit, and a flat surface to uniformly transfer loads. Overall dimensions for the mounting base are 9' 9" x 12' 3¾" x 5' 3¾" (2.97 x 3.75 x 1.61 m) high.



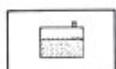
Turntable bearing

Roller bearing type; inner race with integral swing gear bolted to transition section mounted on top of tower section; outer race bolted to revolving upperstructure frame. Swing gear teeth machine-cut.



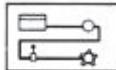
Engine

Diesel; turbocharged full pressure lubrication, oil filter, air cleaner, hour meter, hand throttle, and complete set of engine gauges. Optional: electric motor drive — consult factory.



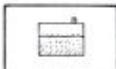
Fuel tank

750 gallons (2 839 L) capacity.
(Sufficient to run crane for approximately 80 hours of average lifting crane operation.)

**Hydraulic system**

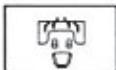
Swing, boomhoist, main load and auxiliary load hoist drums — all hydraulically operated. Hydraulic power is supplied by reversible flow, variable displacement, piston-type pumps, flange mounted to gear reduction unit, which is mounted on output shaft of engine. Hydraulic pumps are connected through a closed loop hydraulic circuit to radial piston hydraulic motors which power operating functions. Normal braking of operational functions accomplished by hydraulic motors when oil flow through motors is reduced by movement of control lever toward neutral position.

Engine Specifications	GM 12V-71T
Number of cylinders	12
Bore and stroke — inches — (mm)	4 1/4 x 5 (108 x 127)
Piston displacement — cu. in. — (cm ³)	852 (13 964)
High idle r.p.m.	2 050
Horsepower @ full load speed — — (W)	493 (367 630)
Peak torque — ft. lbs. — (J)	1450 @ 1850 r.p.m. (1966)
Electrical system	24-volt
Batteries	2 - 12-volt

**Sump tank**

Fabricated steel, non-pressurized; baffled for strength and deaeration. Mounted above power unit. Return line filter mounted on internal side of tank, and charge filter mounted in pressurized line between suction pump and charge pumps mounted to power unit. Capacity — 120 gallons (454.25 L).

Principal Operating Functions —

**Control system**

Air controls; control levers for various functions mounted convenient to operator; "dead man" type controls return to "zero speed, brake on" position if released.

**Main load hoist drum**

Grooved, 54" (1.37 m) root diameter; mounted on anti-friction bearings on non-turning shaft. Drum driven through spur gear reduction by four two-speed, high torque, radial piston hydraulic motors. Infinitely variable rope drum speed control in three speed ranges — low, medium, and high — is standard.

Low Speed — Hydraulic motors each set to run at 90 cu. in. (1 475.10 cm³) displacement per revolution.

Medium Speed — Two hydraulic motors each set to run at 25 cu. in. (409.75 cm³), and two hydraulic motors set to run at 90 cu. in. (1 475.10 cm³) displacement per revolution.

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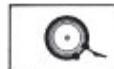
High Speed — Hydraulic motors each set to run at 25 cu. in. (409.75 cm³) displacement per revolution.

Optional main load hoist drum — Available is an optional main hoist drum for greater wire rope capacities.

Auxiliary load hoist drum — Optional. Smooth, 18" (0.46 m) root diameter, 33 1/8" (0.84 m) wide between flanges; mounted on anti-friction bearings on non-turning shaft. Drum driven through spur gear reduction by one 2-speed, high torque, radial piston hydraulic motor. Infinitely variable speed control in two speed ranges — low and high — is standard.

Low speed — Hydraulic motor set to run at 90 cu. in. (1 475.10 cm³) displacement per revolution.

High speed — Hydraulic motor set to run at 45 cu. in. (737.55 cm³) displacement per revolution.

**Drum brakes**

External contracting band holding brakes; spring applied, air released. Brake drums involute splined to hydraulic motor counter-shafts at opposite end of shafts from motors. Brakes spring applied when control lever is moved to "brake on" position; air released when control lever is moved to neutral position — at which time hydraulic motor is blocked hydraulically to restrain load.

Load indicating and overload warning system — Equipped with a load-moment device for measuring the load and the load radius. Incorporated with this device is an overload warning system which warns the operator when an overload condition exists and inhibits certain functions of the machine.

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**Swing mechanism**

Two fixed displacement, high torque, radial piston hydraulic motors; each drive one vertical swing shaft. Machine-cut swing pinion splined on each vertical swing shaft.

Swing Brake — Disc type, mounted on one hydraulic swing motor, spring applied, air released. Holding brake only, not intended for stopping swing.

Swing Speed — 1.45 r.p.m. @ high idle no load; 1.14 r.p.m. @ engine full load speed.

**Machinery cab**

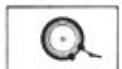
Fabricated steel cab has two doorways at front of cab to provide inside access. Two doorways provide access to the sump tank for service, while a doorway is also provided for access to the hydraulic lines. A ladder and platform is provided to gain access to roof. Handrail is provided around the roof of the machinery cab and winch package. Three lights are also provided inside the machinery cab as standard equipment.

**Boom tip extension**

Optional: Tapered, 10' (3.05 m) long, 14,800# (6 713 kg) rating. Tubular main chords, 100,000 p.s.i. (7 031 kg/cm²) alloy steel; pin-connected to boom top section in fixed position, 18 degrees offset from boom. Equipped with one main load hoist rope sheave and one hoist rope deflector sheave mounted on anti-friction bearings. Mounts on boom lengths 80' (24.38 m) through 200' (60.96 m).

**Independent hydraulic boomhoist**

Grooved, wire rope drum, 24" (0.61 m) root diameter; mounted on anti-friction bearings on non-turning shaft. Drum driven through spur gear reduction by one hydraulic motor. Infinitely variable control.

**Boomhoist brake**

Arrangement same as for load hoist drum brakes.

**Drum locking pawl**

Mechanical drum locking pawl is standard; pawl is air released.

**Electrical system**

24-volt; two 12-volt batteries.

**Operator's cab**

Completely enclosed operator's cab is located between boomfeet for greater visibility. Tinted safety glass is used throughout the cab. The side windows are sliding. Main front windows swing outward for ventilation and ease of cleaning, while the upper and lower front windows are stationary. Rear door slides to the right and has provisions for a padlock. To reduce the sound level, the cab is trimmed with sound proofing. Instrumentation includes tachometer, air pressure gauge, load gauges, and load indicator. Standard equipment also includes two dome lights, a dry chemical fire extinguisher, defroster fan and hot water heater.

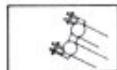
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**Counterweight**

Total 94,400# (42 819 kg). One fixed counterweight — 23,600# (10 705 kg) — attached to rear of frame. Moving counterweight — 70,800# (32 114 kg) consisting of three segments weighing 23,600# (10 705 kg) each — is attached to moving trolley which rides on underneath side of revolving upperstructure frame. Counterweight moves toward rear of frame as boom is lowered — provides rear moment to compensate for that which is imposed by lifting load.

**Boom stops**

Dual, rigid, with spring loaded bumper ends: mounted on mast.

**Boomhoist bridle**

Connects boomhoist wire rope reeving to boom pendants. Equipped with three sheaves, mounted on anti-friction bearings to accommodate 6-part boomhoist wire rope reeving.

**Mast**

Supports boom suspension system. Wide flange beam construction, pin-connected to revolving upperstructure frame. Equipped with three boomhoist sheaves on anti-friction bearings and one fleeting auxiliary load hoist line deflector sheave.

Boom**Heavy duty boom**

Tubular; basic boom two-piece 80' (24.38 m) long; 75" wide (1.90 m), 75" (1.90 m) deep at connections. Main chords of T-1 alloy steel are 5 1/4" (0.13 m) outside diameter. Maximum boom length is 200' (60.96 m). Expanded metal walkways are provided on top of the boom for access to the boomhead machinery.

Base section — 40' (12.19 m) long, boom feet are 4 3/4" (0.12 m) wide on 96 1/4" (2.44 m) centers.

Boom extensions — Available in 10' (3.05 m), 20' (6.10 m), 30' (9.14 m) and 40' (12.19 m) lengths with appropriate length pendants.

Top section — 40' (12.19 m) long. Equipped with two head sheaves. Sheaves are mounted on anti-friction bearings. A hanger block equipped with single sheave is supplied as standard equipment for use with 3 or 4 parts of line.

Boom connections — In-line pin connected.

Mast ladders and platforms — Accessibility to the mast for reeving rope and maintenance is provided by upper and lower platforms. The upper platform is located near the top of the mast, while the lower platform is located 10 1/2' (3.20 m) above the crane deck. A ladder provides accessibility to both platforms.

218 HSL Link-Belt Cranes

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Auxiliary Equipment



Boom angle Indicator

Standard; pendulum type mounted on boom base section.

Load hoist limit switch — Prevents hoisting load into boom peak.

Engine alarm — Trips warning buzzer if water temperature is too high or if engine oil pressure is too low.

Main air solenoid valve — When properly adjusted, acts to immobilize all systems in event of an engine failure.

We are constantly improving our products and therefore reserve the right to change designs and specifications.

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Link-Belt® TG-1900 Performance Specifications

Wire rope and rope drum data —

Main load hoist wire rope length — using 1½" (41 mm) diameter wire rope.

Table below — indicates length of load hoist wire rope required for handling loads between boomfoot level and boom head sheaves.

Parts of line	Boom lengths															
	80' (24.38 m)		90' (27.43 m)		100' (30.48 m)		110' (33.53 m)		120' (36.58 m)		130' (39.62 m)		140' (42.67 m)		150' (45.72 m)	
	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters
1	220	67.06	240	73.15	260	79.25	280	85.34	300	91.44	320	97.54	340	103.63	360	109.73
2	310	94.49	340	103.63	370	112.78	400	121.92	430	131.06	460	140.21	490	149.35	520	158.50
3	370	112.78	410	124.97	450	137.16	490	149.35	530	161.54	570	173.74	610	185.93	650	198.12
4	450	137.16	500	152.40	550	167.64	600	182.88	650	198.12	700	213.36	750	228.60	800	243.84

Parts of line	Boom lengths									
	160' (48.77 m)		170' (51.82 m)		180' (54.86 m)		190' (57.91 m)		200' (60.96 m)	
	Feet	meters								
1	380	115.82	400	121.92	420	128.82	440	134.11	460	140.21
2	550	167.64	580	176.78	610	185.93	640	195.07	670	204.22
3	690	210.31	730	222.50	770	234.70	810	246.89	850	259.08
4	850	259.08	900	274.32	950	289.56	1,000	304.80	1,050	320.04

Table below — indicates additional length of load hoist wire rope which must be added to that shown in above table for handling loads between boomfoot level and ground.

Parts of line	Tower heights①							
	40' (12.19 m)		80' (24.38 m)		120' (36.58 m)		160' (48.77 m)	
	Feet	meters	Feet	meters	Feet	meters	Feet	meters
1	50	15.24	90	27.43	130	39.62	170	51.82
2	100	30.48	180	54.86	260	79.25	340	103.63
3	150	45.72	270	82.30	390	118.87	510	155.45
4	200	60.96	360	109.73	520	158.50	680	207.26

①For tower heights in excess of 160' (48.77 m), multiply the additional tower height by the number of parts of line to be used, and add that total to the amount required for 160' (48.77 m) of tower.

Auxiliary load hoist wire rope lengths — using 7/8" (22 mm) diameter wire rope.

Table below — indicates length of load hoist wire rope required for handling loads between boomfoot level and boom tip extension head sheaves.

Parts of line	Boom lengths															
	80' (24.38 m)		90' (27.43 m)		100' (30.48 m)		110' (33.53 m)		120' (36.58 m)		130' (39.62 m)		140' (42.67 m)		150' (45.72 m)	
	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters
1	200	60.96	220	67.06	240	73.15	260	79.25	280	85.34	300	91.44	320	97.54	340	103.63

Parts of line	Boom lengths									
	160' (48.77 m)		170' (51.82 m)		180' (54.86 m)		190' (57.91 m)		200' (60.96 m)	
	Feet	meters								
1	360	109.73	380	115.82	400	121.92	420	128.82	440	134.11



TG-1900 performance specifications

Wire rope and rope drum data — (continued)

Auxiliary load hoist lengths — (continued)

Table below — indicates additional length of load hoist wire rope which must be added to that shown in the previous table for handling loads between boomfoot level and ground.

Parts of line	Tower heights ^①							
	40' (12.19 m)		80' (24.38 m)		120' (36.58 m)		160' (48.77 m)	
	Feet	meters	Feet	meters	Feet	meters	Feet	meters
1	50	15.24	90	27.43	130	39.62	170	51.82

^①For tower heights in excess of 160' (48.77 m), add the additional tower height to the amount of wire rope required for 160' (48.77 m) of tower.

Drum wire rope capacities —

Wire rope layer	Main load hoist drum — 54" (1.38 m) root diameter grooved drum 1½" (41 mm) wire rope				Optional main load hoist drum — 54" (1.38 m) root diameter grooved drum 1½" (41 mm) wire rope				Auxiliary load hoist drum — 18" (0.46 m) root diameter smooth lagging 7/8" (22 mm) wire rope			
	Rope per layer		Total wire rope		Rope per layer		Total wire rope		Rope per layer		Total wire rope	
	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters
1	368	112.16	368	112.16	359	109.42	359	109.42	172	52.43	172	52.43
2	421	128.32	789	240.48	412	125.58	771	235.00	199	60.65	371	113.08
3	444	135.33	1,233	375.81	434	132.28	1,205	367.28	215	65.53	586	178.61
4					457	139.29	1,662	506.58	232	70.71	818	249.32
5					480	146.30	2,142	652.88				

Wire rope layer	Boomhoist drum — 24" (0.61 m) root diameter grooved drum 1½" (32 mm)			
	Rope per layer		Total wire rope	
	Feet	meters	Feet	meters
1	213	64.92	213	64.92
2	248	75.59	461	140.51
3	271	82.60	732	223.11

Rope size and type —

Wire rope application	Size and type used
Boomhoist	1½" (32 mm) diameter, Type "DB"
Main load hoist	1½" (41 mm) diameter, Type "Y"
Auxiliary load hoist	7/8" (22 mm) diameter, Type "N"
Boom pendants	1¾" (44 mm) diameter, Type "N"

Wire rope types
Type "DB" — 6 x 26 (6 x 19 class), Warrington Seale, extra improved plow steel, preformed, independent wire rope center, right lay, regular lay.
Type "Y" — 35 x 7 non-rotating special tensile formset.
Type "N" — 6 x 25 (6 x 19 class), filler wire, extra improved plow steel, preformed, independent wire rope center, right lay, regular lay.



TG-1900 performance specifications

Wire rope and rope drum data — (continued)

Permissible line speed and line pull — based on Type "Y" wire rope strength for main drums and Type "N" wire rope strength for auxiliary drum.

Root diameter	Wire rope diameter		Rope layer	Number of wraps	Rated line pull ^①		Line speed at rated line pull		No load line speed				
	Inches	mm			Pounds	kilograms	F.p.m.	m/min	F.p.m.	m/min			
	54" (1.37 m)	1½" 41.28		1	25.3	Low	63,100	28 622	136	41.45	180	54.86	
				2	27.3		61,200	27 760	144	43.89	190	57.91	
				3	27.3		58,000	26 309	152	46.33	201	61.26	
				1	25.3	Medium	40,100	18 189	209	63.70	279	85.04	
				2	27.3		37,900	17 191	222	67.67	295	89.92	
				3	27.3		35,900	16 284	234	71.32	312	95.10	
				1	25.3	High	15,500	7 031	477	145.39	640	195.07	
				2	27.3		14,600	6 623	505	153.92	677	206.35	
				3	27.3		13,900	6 305	532	162.15	715	217.93	

Root diameter	Wire rope diameter		Rope layer	Number of wraps	Rated line pull ^①		Line speed at rated line pull		No load line speed				
	Inches	mm			Pounds	kilograms	F.p.m.	m/min	F.p.m.	m/min			
	54" (1.37 m)	1½" 41.28		1	24.7	Low	63,100	28 622	124	37.80	180	54.86	
				2	26.7		63,100	28 622	131	39.93	190	57.91	
				3	26.7		63,100	28 622	138	42.06	201	61.26	
				4	26.7		60,800	27 579	145	44.20	211	64.31	
				5	26.7		58,000	26 309	152	46.43	222	67.67	
				1	24.7	Medium	44,300	20 094	191	58.22	279	85.04	
				2	26.7		41,900	19 006	202	61.57	295	89.92	
				3	26.7		39,700	18 008	213	64.92	312	95.10	
				4	26.7		37,700	17 101	224	68.28	327	99.67	
				5	26.7		35,900	16 284	234	71.32	344	104.85	
				1	24.7	High	17,100	7 757	422	128.63	640	195.07	
				2	26.7		16,200	7 348	447	136.25	677	206.35	
				3	26.7		15,300	6 940	471	143.56	715	217.93	
				4	26.7		14,500	6 577	496	151.18	752	229.21	
				5	26.7		13,900	6 305	521	158.80	789	240.49	

^①Permissible line pull based on 1½" (41 mm) diameter wire rope is restricted to 63,100 lbs. (28 622 kg).

Root diameter	Wire rope diameter		Rope layer	Number of wraps	Rated line pull		Line speed at rated line pull		No load line speed				
	Inches	mm			Pounds	kilograms	F.p.m.	m/min	F.p.m.	m/min			
	18" (0.46 m)	7/8" 22.23		1	34.8	Low	19,200	8 709	216	65.84	252	76.81	
				2	36.8		17,600	7 983	236	71.93	276	84.12	
				3	36.8		16,200	7 348	256	78.03	299	91.14	
				4	36.8		15,000	6 804	276	84.12	322	98.15	
				1	34.8	High	5,900	2 676	424	129.24	500	152.40	
				2	36.8		5,400	2 449	463	141.12	547	166.73	
				3	36.8		5,000	2 268	502	153.01	593	180.75	
				4	36.8		4,600	2 087	541	164.90	639	194.77	



Link-Belt® TG-1900 lifting crane capacities - without climbing frame

Tower - free standing, without climbing frame; 9' 0" x 9' 9" (2.97 x 2.97 m) cross section. Tower heights 13' 7 1/2" (4.15 m) through 162' 7 1/2" (49.57 m) - see footnote^a.

Mast - 43' 0 1/8" (13.11 m) over-all height.

Boom - tubular; 75" x 75" (1.91 x 1.91 m) with 40' (12.19 m) base section. 40' (12.19 m) top section, 1 1/2" (44 mm) diameter boom pendants, with or without boom tip extension.

Boom tip extension - tubular; 14,800# (6 713 kg) rating; 10' (3.05 m) long.

Counterweights - Total 94,400# (42 820 kg). Includes one fixed counterweight - 23,600# (10 705 kg) plus one moving counterweight - 70,800# (32 115 kg) consisting of three sections weighing 23,600# (10 705 kg) each.

Length	Boom		Load radius ^b		Capacities - Main boom only ^c							
	Angle Degree	Boom point height ^d			4-part hoist line		3-part hoist line		2-part hoist line		1-part hoist line	
		Feet	meters	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	
80' (24.38 m)	85.5	88' 6"	27.27	10	3.05				115,200	52 253		
	84.8	89' 5"	27.25	11	3.35						57,600	26 126
	84.1	89' 4"	27.22	12	3.66							
	83.4	89' 2"	27.19	13	3.96							
	82.7	89' 1"	27.15	14	4.27							
	81.9	88' 11"	27.11	15	4.57							
	78.3	88' 1"	26.84	20	6.10	230,400	104 507	172,800	78 380			
	74.6	86' 10"	26.48	25	7.62	230,400	104 507					
	70.9	85' 4"	26.00	30	9.14	204,200	92 623					
	67.0	83' 5"	25.42	35	10.67	177,500	80 512	172,800	78 380			
	63.1	81' 1"	24.71	40	12.19	156,800	71 123	157,100	71 259			
90' (27.43 m)	54.7	75' 0"	22.87	50	15.24	126,800	57 515	127,100	57 651	115,200	52 253	
	45.4	66' 8"	20.31	60	18.29	106,300	48 216	106,600	48 352	106,800	48 443	
	34.1	54' 8"	16.65	70	21.34	90,200	40 914	90,400	41 004	90,700	41 140	
	17.7	34' 1"	10.38	80	24.38	69,000	31 297	69,700	31 615	71,100	32 250	57,600
	85.4	99' 5"	30.31	11	3.35				115,100	52 208		
	84.8	99' 4"	30.28	12	3.66						57,500	26 081
	84.1	99' 3"	30.25	13	3.96							
	83.5	99' 2"	30.22	14	4.27							
	82.8	99' 0"	30.18	15	4.57							
	79.6	98' 3"	29.95	20	6.10	230,300	104 462	172,700	78 335			
	76.4	97' 2"	29.62	25	7.62	230,300	104 462					
100' (30.48 m)	73.1	95' 10"	29.21	30	9.14	201,900	91 580	172,700	78 335			
	69.7	94' 2"	28.69	35	10.67	175,400	79 560	172,700	78 335			
	66.3	92' 1"	28.08	40	12.19	154,700	70 170	155,100	70 352			
	59.1	86' 11"	26.50	50	15.24	124,800	56 608	125,200	56 789	115,100	52 208	
	51.4	80' 0"	24.39	60	18.29	104,300	47 309	104,600	47 445	104,900	47 581	
	42.6	70' 8"	21.55	70	21.34	88,600	40 188	88,900	40 324	89,100	40 415	
	32.1	57' 7"	17.56	80	24.38	76,500	34 699	76,700	34 790	77,000	34 926	
	16.7	35' 7"	10.84	90	27.43	59,700	27 079	60,300	27 351	61,400	27 176	57,500
	85.3	109' 5"	33.34	12	3.66				115,000	52 163		
	84.7	109' 4"	33.31	13	3.96						57,500	26 081
	84.1	109' 2"	33.28	14	4.27							
110' (33.53 m)	83.6	109' 1"	33.25	15	4.57							
	80.7	108' 5"	33.04	20	6.10							
	77.8	107' 5"	32.75	25	7.62	230,100	104 371	172,500	78 244			
	74.8	106' 3"	32.38	30	9.14	199,700	90 582	172,500	78 244			
	71.8	104' 9"	31.92	35	10.67	173,300	78 607	172,500	78 244			
	68.8	102' 11"	31.38	40	12.19	152,700	69 263	153,200	69 490			
	62.5	98' 5"	29.99	50	15.24	122,900	55 746	123,400	55 973	115,000	52 163	
	55.8	92' 5"	28.17	60	18.29	102,400	46 447	102,800	46 629	103,200	46 810	
	48.5	84' 8"	25.81	70	21.34	87,100	39 507	87,500	39 689	87,900	39 870	
	40.4	74' 6"	22.70	80	24.38	74,900	33 974	75,200	34 110	75,600	34 291	
	30.4	60' 5"	18.41	90	27.43	65,600	29 755	65,800	29 846	66,100	29 982	
	15.8	37' 0"	11.28	100	30.48	51,900	23 541	52,400	23 768	53,300	24 176	57,500
	85.2	119' 4"	36.37	13	3.96				114,900	52 117		
	84.7	119' 3"	36.35	14	4.27						57,400	26 036
	84.2	119' 2"	36.32	15	4.57							
110' (33.53 m)	81.5	118' 6"	36.13	20	6.10							
	78.9	117' 8"	35.86	25	7.62	229,900	104 280	172,400	78 199			
	76.2	116' 7"	35.53	30	9.14	197,500	89 584	172,400	78 199			
	73.5	115' 2"	35.11	35	10.67	171,300	77 700	171,800	77 927			
	70.8	113' 7"	34.62	40	12.19	150,800	68 401	151,300	68 628			
	65.2	109' 7"	33.39	50	15.24	121,100	54 930	121,600	55 156	114,900	52 117	
	59.3	104' 3"	31.78	60	18.29	100,700	45 676	101,100	45 858	101,600	46 084	
	53.0	97' 7"	29.74	70	21.34	85,800	38 918	86,200	39 099	86,600	39 281	
	46.1	89' 1"	27.14	80	24.38	73,600	33 384	74,000	33 565	74,300	33 701	
	38.4	78' 1"	23.79	90	27.43	64,100	29 075	64,400	29 211	64,800	29 392	
	29.0	63' 1"	19.22	100	30.48	56,700	25 718	56,900	25 809	57,200	25 945	
	15.1	38' 4"	11.69	110	33.53	45,200	20 502	45,600	20 683	46,400	21 046	57,400
	85.2	119' 4"	36.37	13	3.96						48,400	26 036
	84.7	119' 3"	36.35	14	4.27							
	84.2	119' 2"	36.32	15	4.57							
	81.5	118' 6"	36.13	20	6.10							
	78.9	117' 8"	35.86	25	7.62	229,900	104 280	172,400	78 199			
	76.2	116' 7"	35.53	30	9.14	197,500	89 584	172,400	78 199			
	73.5	115' 2"	35.11	35	10.67	171,300	77 700	171,800	77 927			
	70.8	113' 7"	34.62	40	12.19	150,800	68 401	151,300	68 628			
	65.2	109' 7"	33.39	50	15.24	121,100	54 930	121,600	55 156	114,900	52 117	
	59.3	104' 3"	31.78	60	18.29	100,700	45 676	101,100	45 858	101,600	46 084	
	53.0	97' 7"	29.74	70	21.34	85,800	38 918	86,200	39 099	86,600	39 281	
	46.1	89' 1"	27.14	80	24.38	73,600	33 384	74,000	33 565	74,300	33 701	
	38.4	78' 1"	23.79	90	27.43	64,100	29 075	64,400	29 211	64,800	29 392	
	29.0	63' 1"	19.22	100	30.48	56,700	25 718	56,900	25 809	57,200	25 945	
	15.1	38' 4"	11.69	110	33.53	45,200	20 502	45,600	20 683	46,400	21 046	57,400
	85.2	119' 4"	36.37	13	3.96						48,400	26 036
	84.7	119' 3"	36.35	14	4.27							
	84.2	119' 2"	36.32	15	4.57							
	81.5	118' 6"	36.13	20	6.10							
	78.9	117' 8"	35.86	25	7.62	229,900	104 280	172,400	78 199			
	76.2	116' 7"	35.53	30	9.14	197,500	89 584	172,400	78 199			
	73.5	115' 2"	35.11	35	10.67	171,300	77 700	171,800	77 927			
	70.8	113' 7"	34.62	40	12.19	150,800	68 401	151,300	68 628			
	65.2	109' 7"	33.39	50	15.24	121,100	54 930	121,600	55 156	114,900	52 117	
	59.3	104' 3"	31.78	60	18.29	100,700	45 676	101,100	45 858	101,600	46 084	
	53.0	97' 7"	29.74	70	21.34	85,800	38 918	86,200	39 099	86,600	39 281	
	46.1</											



TG-1900 lifting crane capacities - without climbing frame

Tower - free standing, without climbing frame; 9' 9" x 9' 9" (2.97 x 2.97 m) cross section. Tower heights 13' 7 1/2" (4.15 m) through 162' 7 1/2" (49.57 m) - see footnote¹.

Boom - **tubular**; 75" x 75" (1.91 x 1.91 m) with 40' (12.19 m) base section, 40' (12.19 m) top section, 1 1/4" (44 mm) diameter boom bungs, with or without boom tip extension.

Counterweights - Total 94,400# (42 820 kg). Includes one fixed counterweight - 23,600# (10 705 kg) plus one moving counterweight - 70,800# (32 115 kg) consisting of three sections weighing 23,600# (10 705 kg) each.

Mast - 43' 0 1/8" (13.11 m) over-all height.

Boom tip extension - **tubular**; 14,800# (6 713 kg) rating; 10' (3.05 m) long.

Length	Boom		Load radius ³		Capacities - Main boom only ¹							
	Angle	Boom point height ²			4-part hoist line		3-part hoist line		2-part hoist line		1-part hoist line	
			Feet	meters	Feet	meters	Feet	meters	Feet	meters	Feet	meters
120' (36.58 m)	85.6	129' 4"	39.43	13	3.96					114,800	52 072	
	85.1	129' 3"	39.41	14	4.27							57,400
	84.6	129' 2"	39.38	15	4.57							26 036
	82.2	128' 7"	39.20	20	6.10							
	79.8	127' 10"	38.96	25	7.62	229,700	104 190	172,200	78 108			
	77.4	126' 10"	38.66	30	9.14	195,300	88 586	172,200	78 108			
	74.9	125' 7"	38.28	35	10.67	169,200	76 747	169,800	77 019			
	72.4	124' 2"	37.83	40	12.19	148,900	67 539	149,400	67 766			
	67.4	120' 6"	36.72	50	15.24	119,400	54 158	119,900	54 385	114,800	52 072	
	62.1	115' 9"	35.28	60	18.29	99,000	44 905	99,500	45 132	100,000	45 359	
	56.5	109' 10"	33.47	70	21.34	84,100	38 147	84,600	38 373	85,000	38 555	
	50.6	102' 5"	31.22	80	24.38	72,300	32 794	72,800	33 021	73,200	33 202	
	44.1	93' 2"	28.41	90	27.43	62,800	28 485	63,200	28 667	63,600	28 848	
	36.7	81' 5"	24.82	100	30.48	55,200	25 038	55,600	25 219	55,900	25 355	
	27.7	65' 7"	19.99	110	33.53	49,200	22 316	49,500	22 452	49,700	22 543	
	14.4	39' 8"	12.09	120	36.58	39,500	17 916	39,800	18 052	40,400	18 325	42,000
130' (39.62 m)	85.5	139' 4"	42.47	14	4.27					114,700	52 027	
	85.1	139' 3"	42.44	15	4.57							57,300
	82.8	138' 9"	42.28	20	6.10							25 990
	80.6	138' 0"	42.06	25	7.62							
	78.4	137' 1"	41.77	30	9.14	193,200	87 634	172,100	78 063			
	76.1	135' 11"	41.43	35	10.67	167,200	75 840	167,800	76 112			
	73.8	134' 7"	41.02	40	12.19	147,000	66 678	147,600	66 950			
	69.2	131' 3"	40.00	50	15.24	117,600	53 342	118,200	53 614	114,700	52 027	
	64.4	126' 11"	38.69	60	18.29	97,300	44 134	97,900	44 406	98,400	44 633	
	59.4	121' 7"	37.06	70	21.34	82,500	37 421	83,000	37 648	83,600	37 920	
	54.1	115' 1"	35.07	80	24.38	71,100	32 250	71,600	32 477	72,200	32 749	
	48.5	107' 0"	32.62	90	27.43	61,500	27 895	62,000	28 122	62,500	28 349	
	42.3	97' 2"	29.61	100	30.48	53,900	24 448	54,300	24 630	54,800	24 856	
	35.2	84' 8"	25.81	110	33.53	47,800	21 681	48,100	21 817	48,500	21 999	
	26.6	68' 0"	20.73	120	36.58	42,800	19 413	43,100	19 549	43,400	19 685	
	13.9	40' 11"	12.46	130	39.62	34,400	15 603	34,700	15 739	35,300	16 011	36,600
140' (42.67 m)	85.4	149' 3"	45.50	15	4.57					114,600	51 981	
	83.4	148' 9"	45.35	20	6.10							57,300
	81.3	148' 1"	45.14	25	7.62							25 990
	79.2	147' 3"	44.88	30	9.14	190,900	86 590	172,000	78 017			
	77.1	146' 2"	44.56	35	10.67	165,200	74 933	165,800	75 205			
	75.0	145' 0"	44.18	40	12.19	145,100	65 816	145,800	66 133			
	70.7	141' 11"	43.24	50	15.24	115,900	52 571	116,500	52 843	114,600	51 981	
	66.3	137' 11"	42.05	60	18.29	95,700	43 408	96,300	43 680	96,900	43 953	
	61.8	133' 1"	40.56	70	21.34	80,900	36 695	81,500	36 967	82,100	37 239	
	57.0	127' 2"	38.76	80	24.38	69,700	31 615	70,200	31 842	70,800	32 114	
	52.0	120' 0"	36.59	90	27.43	60,400	27 396	60,900	27 623	61,400	27 850	
	46.6	111' 5"	33.96	100	30.48	52,700	23 904	53,200	24 131	53,700	24 357	
	40.7	100' 11"	30.77	110	33.53	46,500	21 092	46,900	21 273	47,400	21 500	
	33.9	87' 10"	26.76	120	36.58	41,400	18 778	41,800	18 960	42,200	19 141	
	25.6	70' 4"	21.43	130	39.62	37,300	16 918	37,600	17 055	37,900	17 191	
	13.4	42' 1"	12.83	140	42.67	29,900	13 562	30,200	13 698	30,700	13 925	31,800
150' (45.72 m)	85.7	159' 4"	48.56	15	4.57					114,500	51 936	
	83.8	158' 10"	48.42	20	6.10							57,200
	81.9	158' 3"	48.22	25	7.62							25 945
	79.9	157' 5"	47.98	30	9.14	188,800	85 638	171,800	77 927			
	78.0	156' 5"	47.68	35	10.67	163,200	74 026	163,900	74 343			
	76.0	155' 3"	47.33	40	12.19	143,200	64 954	143,900	65 271			
	72.1	152' 5"	46.46	50	15.24	114,200	51 800	114,900	52 117	114,500	51 936	
	68.0	148' 10"	45.35	60	18.29	94,100	42 683	94,700	42 955	95,400	43 272	
	63.8	144' 4"	43.99	70	21.34	79,400	36 015	80,000	36 287	80,700	36 604	
	59.5	138' 11"	42.34	80	24.38	68,200	30 935	68,800	31 207	69,400	31 479	
	54.9	132' 6"	40.38	90	27.43	59,300	26 898	59,800	27 124	60,400	27 396	
	50.1	124' 10"	38.04	100	30.48	51,500	23 360	52,100	23 632	52,700	23 904	
	44.9	115' 8"	35.25	110	33.53	45,300	20 547	45,800	20 774	46,300	21 001	
	39.2	104' 7"	31.87	120	36.58	40,100	18 189	40,600	18 415	41,100	18 642	
	32.7	90' 9"	27.67	130	39.62	35,900	16 283	36,300	16 465	36,700	16 646	
	24.8	72' 7"	22.11	140	42.67	32,300	14 651	32,600	14 787	32,900	14 923	
	12.9	43' 3"	13.18	150	45.72	25,900	11 748	26,200	11 884	26,600	12 065	

¹ Load handled off main boom head sheaves. 10' (3.05 m) boom tip extension mounted on boom.

² Measured vertically from center of boom head sheave to base of turntable bearing mounting.

³ Measured from center of tower base section to center of gravity of freely suspended load.



TG-1900 lifting crane capacities - without climbing frame

Tower - free standing, without climbing frame; **9' 9" x 9' 9"** (2.97 x 2.97 m) cross section. Tower heights **13' 7½"** (4.15 m) through **162' 7½"** (49.57 m) - see footnote¹.

Mast - **43' 0½"** (13.11 m) over-all height.

Boom - **tubular**; **75" x 75"** (1.91 x 1.91 m) with **40'** (12.19 m) base section, **40'** (12.19 m) top section, **154"** (44 mm) diameter boom pendants, with or without boom tip extension.

Boom tip extension - **tubular**; **14,800#** (6 713 kg) rating; **10'** (3.05 m) long.

Counterweights - Total **94,400#** (42 820 kg). Includes one fixed counterweight - **23,600#** (10 705 kg) plus one moving counterweight - **70,800#** (32 115 kg) consisting of three sections weighing **23,600#** (10 705 kg) each.

Length (m)	Boom		Load radius ³		Capacities - Main boom only ¹							
	Angle Degree	Boom point height ² Feet	4-part hoist line		3-part hoist line		2-part hoist line		1-part hoist line			
			Feet	meters	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms
160' (48.77 m)	84.2	168' 11"	51.48	20	6.10				114,400	51 890		
	82.4	168' 4"	51.30	25	7.62						57,200	
	80.6	167' 7"	51.07	30	9.14						25 945	
	78.8	166' 8"	50.79	35	10.67	161,100	73 073	161,900	73 436			
	76.9	165' 7"	50.47	40	12.19	141,300	64 092	142,100	64 455	114,400	51 890	
	73.2	162' 11"	49.65	50	15.24	112,400	50 983	113,200	51 346	113,900	51 664	
	69.4	159' 6"	48.62	60	18.29	92,500	41 957	93,200	42 274	93,900	42 592	
	65.6	155' 5"	47.36	70	21.34	77,800	35 289	78,500	35 607	79,200	35 924	
	61.6	150' 5"	45.84	80	24.38	66,700	30 254	67,300	30 526	68,000	30 844	
	57.4	144' 6"	44.05	90	27.43	57,900	26 263	58,600	26 580	59,200	26 852	
	53.0	137' 7"	41.93	100	30.48	50,400	22 861	51,000	23 133	51,700	23 450	
	48.4	129' 5"	39.44	110	33.53	44,100	20 003	44,700	20 275	45,300	20 547	
	43.4	119' 8"	36.49	120	36.58	39,000	17 690	39,500	17 916	40,000	18 143	
	37.9	108' 1"	32.94	130	39.62	34,600	15 694	35,100	15 921	35,600	16 147	
	31.6	93' 8"	28.55	140	42.67	30,900	14 016	31,400	14 242	31,800	14 424	
	24.0	74' 9"	22.77	150	45.72	27,900	12 655	28,200	12 791	28,500	12 927	
	12.5	44' 4"	13.52	160	48.77	22,300	10 115	22,600	10 251	22,900	10 387	
170' (51.82 m)	84.5	178' 11"	54.54	20	6.10				114,300	51 845		
	82.8	178' 5"	54.37	25	7.62						57,100	
	81.1	177' 8"	54.16	30	9.14						25 900	
	79.4	176' 10"	53.90	35	10.67	159,100	72 166	159,900	75 529			
	77.7	175' 10"	53.59	40	12.19	139,400	63 230	140,200	63 593	114,300	51 845	
	74.2	173' 4"	52.83	50	15.24	110,700	50 212	111,500	50 575	112,300	50 938	
	70.7	170' 2"	51.87	60	18.29	90,900	41 231	91,600	41 549	92,400	41 911	
	67.1	166' 4"	50.69	70	21.34	76,300	34 609	77,000	34 926	77,800	35 289	
	63.4	161' 8"	49.28	80	24.38	65,200	29 574	65,900	29 891	66,700	30 254	
	59.5	156' 3"	47.62	90	27.43	56,500	25 627	57,200	25 945	57,900	26 263	
	55.5	149' 11"	45.68	100	30.48	49,400	22 407	50,000	22 679	50,700	22 997	
	51.3	142' 6"	43.42	110	33.53	43,000	19 504	43,700	19 821	44,300	20 094	
	46.9	133' 10"	40.78	120	36.58	37,800	17 145	38,400	17 417	39,000	17 690	
	42.1	123' 7"	37.68	130	39.62	33,500	15 195	34,000	15 422	34,600	15 694	
	36.8	111' 5"	33.97	140	42.67	29,700	13 471	30,200	13 698	30,700	13 925	
	30.7	96' 6"	29.40	150	45.72	26,600	12 065	27,000	12 246	27,400	12 428	
	23.2	76' 10"	23.41	160	48.77	24,000	10 886	24,300	11 022	24,600	11 158	
	12.1	45' 5"	13.85	170	51.82	19,000	8 618	19,200	8 708	19,600	8 890	
180' (54.86 m)	84.8	189' 0"	57.60	20	6.10				114,200	51 800		
	83.2	188' 6"	57.45	25	7.62						57,100	
	81.6	187' 10"	57.24	30	9.14						25 900	
	80.0	187' 0"	57.00	35	10.67	152,500	69 172	153,400	69 581			
	78.4	186' 1"	56.71	40	12.19	137,500	62 368	138,300	62 731	114,200	51 800	
	75.1	183' 8"	55.99	50	15.24	109,000	49 441	109,800	49 804	110,700	50 212	
	71.8	180' 9"	55.08	60	18.29	89,200	40 460	90,100	40 868	90,900	41 231	
	68.4	177' 1"	53.98	70	21.34	74,800	33 928	75,600	34 291	76,400	34 654	
	65.0	172' 10"	52.67	80	24.38	63,700	28 893	64,500	29 256	65,300	29 619	
	61.4	167' 9"	51.13	90	27.43	55,000	24 947	55,800	25 310	56,600	25 673	
	57.7	161' 10"	49.33	100	30.48	48,100	21 817	48,800	22 135	49,500	22 452	
	53.8	155' 1"	47.26	110	33.53	42,000	19 050	42,700	19 368	43,400	19 685	
	49.8	147' 2"	44.86	120	36.58	36,700	16 646	37,400	16 964	38,000	17 236	
	45.5	138' 1"	42.08	130	39.62	32,300	14 651	32,900	14 923	33,600	15 240	
	40.8	127' 5"	38.83	140	42.67	28,600	12 972	29,100	13 199	29,700	13 471	
	35.7	114' 9"	34.96	150	45.72	25,300	11 475	25,800	11 702	26,300	11 929	
	29.8	99' 2"	30.22	160	48.77	22,600	10 251	23,100	10 477	23,500	10 659	
	22.6	78' 10"	24.03	170	51.82	20,400	9 253	20,700	9 389	21,100	9 570	
	11.8	46' 6"	14.17	180	54.86	16,000	7 257	16,200	7 348	16,500	7 484	

¹ Load handled off main boom head sheaves 10' (3.05 m) boom tip extension mounted on boom.

² Measured vertically from center of boom head sheave to base of turntable bearing mounting.

³ Measured from center of tower base section to center of gravity of freely suspended load.



TG-1900 lifting crane capacities - without climbing frame

Tower - free standing, without climbing frame; 9' 9" x 9' 9" (2.97 x 2.97 m) cross section. Tower heights 13' 7½" (4.15 m) through 162' 7½" (49.57 m) - see footnote³.

Boom - tubular; 75" x 75" (1.91 x 1.91 m) with 40" (12.19 m) base section, 40" (12.19 m) top section, 13/4" (44 mm) diameter boom pendants, with or without boom tip extension.

Counterweights - Total 94,400# (42 820 kg). Includes one fixed counterweight - 23,600# (10 705 kg) plus one moving counterweight - 70,800# (32 115 kg) consisting of three sections weighing 23,600# (10 705 kg) each.

Mast - 43' 0" (13.11 m) over-all height.

Boom tip extension - tubular; 14,800# (6 713 kg) rating; 10' (3.05 m) long.

Length	Boom			Load radius ³		Capacities - Main boom only ¹							
	Angle	Boom point height ²				4-part hoist line		3-part hoist line		2-part hoist line		1-part hoist line	
		Degree	Feet	meters	Feet	meters	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	
190' (57.91 m)	85.1	199' 0"	60.66	20	6.10						114,100	51 754	
	83.6	198' 6"	60.51	25	7.62						57,000	25 854	
	82.1	197' 11"	60.32	30	9.14								
	80.5	197' 2"	60.09	35	10.67	139,400	63 230	140,300	63 639	114,100	51 754		
	79.0	196' 3"	59.81	40	12.19	134,200	60 872	136,500	61 915	114,100	51 754		
	75.9	194' 0"	59.14	50	15.24	105,500	47 854	108,000	48 987	109,000	49 441		
	72.8	191' 3"	58.28	60	18.29	86,900	39 417	88,500	40 142	89,400	40 551		
	69.6	187' 10"	57.25	70	21.34	73,200	33 202	74,100	33 611	75,000	34 019		
	66.4	183' 9"	56.01	80	24.38	62,300	28 258	63,100	28 621	63,900	28 984		
	63.0	179' 0"	54.57	90	27.43	53,600	24 312	54,400	24 675	55,300	25 083		
	59.6	173' 7"	52.90	100	30.48	46,700	21 182	47,500	21 545	48,300	21 908		
	56.0	167' 3"	50.98	110	33.53	40,900	18 551	41,700	18 914	42,400	19 232		
	52.3	160' 0"	48.78	120	36.58	35,700	16 193	36,400	16 510	37,100	16 828		
	48.4	151' 9"	46.25	130	39.62	31,200	14 152	31,900	14 469	32,600	14 787		
	44.2	142' 2"	43.34	140	42.67	27,500	12 473	28,100	12 745	28,700	13 018		
	39.7	131' 1"	39.95	150	45.72	24,200	10 976	24,800	11 249	25,400	11 521		
	34.7	117' 11"	35.93	160	48.77	21,400	9 706	21,900	9 933	22,500	10 205		
	29.0	101' 9"	31.02	170	51.82	19,100	8 663	19,500	8 845	20,000	9 071		
	22.0	80' 9"	24.63	180	54.86	17,200	7 801	17,500	7 937	17,900	8 119		
	11.5	47' 6"	14.48	190	57.91	13,200	5 987	13,400	6 078	13,700	6 214		
200' (60.96 m)	85.4	209' 1"	63.72	20	6.10					114,000	51 709		
	83.9	208' 7"	63.58	25	7.62					57,000	25 854		
	82.5	208' 0"	63.40	30	9.14								
	81.0	207' 3"	63.18	35	10.67								
	79.6	206' 5"	62.92	40	12.19	125,300	56 835	126,300	57 288	114,000	51 709		
	76.6	204' 4"	62.27	50	15.24	101,600	46 084	104,200	47 264	107,400	48 715		
	73.7	201' 8"	61.47	60	18.29	83,400	37 829	85,500	38 782	87,900	39 870		
	70.7	198' 5"	60.49	70	21.34	70,600	32 023	72,300	32 794	73,500	33 339		
	67.6	194' 8"	59.32	80	24.38	60,800	27 578	61,700	27 986	62,600	28 394		
	64.5	190' 2"	57.97	90	27.43	52,200	23 677	53,100	24 085	53,900	24 448		
	61.2	185' 1"	56.41	100	30.48	45,300	20 547	46,100	20 910	47,000	21 318		
	57.9	179' 2"	54.62	110	33.53	39,600	17 962	40,400	18 325	41,300	18 733		
	54.5	172' 6"	52.58	120	36.58	34,600	15 694	35,400	16 057	36,200	16 420		
	50.9	164' 10"	50.25	130	39.62	30,200	13 698	30,900	14 016	31,700	14 378		
	47.1	156' 2"	47.60	140	42.67	26,400	11 974	27,100	12 292	27,800	12 609		
	43.0	146' 2"	44.56	150	45.72	23,100	10 477	23,700	10 750	24,400	11 067		
	38.6	134' 7"	41.03	160	48.77	20,300	9 207	20,900	9 480	21,500	9 752		
	33.8	121' 0"	36.87	170	51.82	17,900	8 119	18,400	8 346	18,900	8 572		
	28.2	104' 4"	31.80	180	54.86	15,800	7 166	16,300	7 393	16,700	7 574		
	21.4	82' 8"	25.21	190	57.91	14,200	6 441	14,500	6 577	14,900	6 758		
	11.2	48' 6"	14.78	200	60.96	10,600	4 808	10,800	4 898	11,100	5 034		

¹ Load handled off main boom head sheaves 10' (3.05 m) boom tip extension mounted on boom.

² Measured vertically from center of boom head sheave to base of turntable bearing mounting.

³ Measured from center of tower base section to center of gravity of freely suspended load.



TG-1900 lifting crane capacities - with climbing frame

Tower - free standing, with climbing frame;
 9' 9" x 9' 9" (2.97 x 2.97 m) cross section.
 Tower heights 40' 0" (12.19 m) through
 162' 7½" (49.57 m) - see footnote*.

Boom - tubular: 75" x 75" (1.91 x 1.91 m) with 40'
 (12.19 m) base section, 40' (12.19 m) top
 section, 1¾" (44 mm) diameter boom pendants,
 with or without boom tip extension.

Counterweights - Total 94,400# (42 820 kg). Includes
 one fixed counterweight - 23,600# (10 705 kg) plus one
 moving counterweight - 70,800# (32 115 kg) consisting of
 three sections weighing 23,600# (10 705 kg) each.

Mast - 43' 0 ¼" (13.11 m) over-all height.

Boom tip extension - tubular: 14,800# (6 713 kg) rating; 10' (3.05 m) long.

Length	Boom		Load radius ³		Capacities - Main boom only ¹								
	Angle	Boom point height ²			4-part hoist line		3-part hoist line		2-part hoist line		1-part hoist line		
		Degree	Feet	meters	Feet	meters	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	
80' (24.38 m)	85.5	89' 6"	27.27	10	3.05					115,200	52 253		
	84.8	89' 5"	27.25	11	3.35								
	84.1	89' 4"	27.22	12	3.66								
	83.4	89' 2"	27.19	13	3.96								
	82.7	89' 1"	27.15	14	4.27								
	81.9	88' 11"	27.11	15	4.57								
	78.3	88' 1"	26.84	20	6.10	230,400	104 507	172,800	78 380				
	74.6	86' 10"	26.48	25	7.62	230,400	104 507	172,800	78 380				
	70.9	85' 4"	26.00	30	9.17	196,600	89 176	172,800	78 380				
	67.0	83' 5"	25.42	35	10.67	170,800	77 473	171,200	77 655				
	63.1	81' 1"	24.71	40	12.19	150,800	68 401	151,200	68 583				
	54.7	75' 0"	22.87	50	15.24	121,900	55 292	122,200	55 428	115,200	52 253		
	45.4	66' 8"	20.31	60	18.29	102,100	46 311	102,400	46 447	102,700	46 583		
	34.1	54' 8"	16.65	70	21.34	88,000	39 916	88,200	40 006	88,400	40 097		
	17.7	34' 1"	10.38	80	24.38	69,000	31 297	69,700	31 615	71,100	32 250	57,600	26 126
90' (27.43 m)	85.4	99' 5"	30.31	11	3.35					115,100	52 208		
	84.8	99' 4"	30.28	12	3.66								
	84.1	99' 3"	30.25	13	3.96								
	83.5	99' 2"	30.22	14	4.27								
	82.8	99' 0"	30.18	15	4.57								
	79.6	98' 3"	29.95	20	6.10	230,300	104 462	172,700	78 335				
	76.4	97' 2"	29.62	25	7.62	228,500	103 645	172,700	78 335				
	73.1	95' 10"	29.21	30	9.14	194,300	88 133	172,700	78 335				
	69.7	94' 2"	28.69	35	10.67	168,700	76 521	169,100	76 702				
	66.3	92' 1"	28.08	40	12.19	148,700	67 449	149,100	67 630				
	59.1	86' 11"	26.50	50	15.24	119,900	54 385	120,300	54 567	115,100	52 208		
	51.4	80' 0"	24.39	60	18.29	100,100	45 404	100,400	45 540	100,800	45 722		
	42.6	70' 8"	21.55	70	21.34	85,800	38 918	86,100	39 054	86,400	39 190		
	32.1	57' 7"	17.56	80	24.38	75,200	34 110	75,400	34 200	75,600	34 291		
	16.7	35' 7"	10.84	90	27.43	59,700	27 079	60,300	27 351	61,400	27 850	57,500	26 081
100' (30.48 m)	85.3	109' 5"	33.34	12	3.66					115,000	52 163		
	84.7	109' 4"	33.31	13	3.96								
	84.1	109' 2"	33.28	14	4.27								
	83.6	109' 1"	33.25	15	4.57								
	80.7	108' 5"	33.04	20	6.10								
	77.8	107' 5"	32.75	25	7.62	226,100	102 557	172,500	78 244				
	74.8	106' 3"	32.38	30	9.14	192,100	87 135	172,500	78 244				
	71.8	104' 9"	31.92	35	10.67	166,600	75 568	167,000	75 749				
	68.8	102' 11"	31.38	40	12.19	146,800	66 587	147,200	66 768				
	62.5	98' 5"	29.99	50	15.24	118,000	53 523	118,400	53 705	115,000	52 163		
	55.8	92' 5"	28.17	60	18.29	98,200	44 542	98,600	44 724	99,000	44 905		
	48.5	84' 8"	25.81	70	21.34	83,900	38 056	84,200	38 192	84,600	38 373		
	40.4	74' 6"	22.70	80	24.38	73,100	33 157	73,400	33 293	73,700	33 429		
	30.4	60' 5"	18.41	90	27.43	64,900	29 438	65,100	29 528	65,400	29 664		
	15.8	37' 0"	11.28	100	30.48	51,900	23 541	52,400	23 768	53,300	24 176	57,500	26 081
110' (33.53 m)	85.2	119' 4"	36.37	13	3.96					114,900	52 117		
	84.7	119' 3"	36.35	14	4.27								
	84.2	119' 2"	36.32	15	4.57								
	81.5	118' 6"	36.13	20	6.10								
	78.9	117' 8"	35.86	25	7.62	223,700	101 468	172,400	78 199				
	76.2	116' 7"	35.53	30	9.14	189,900	86 137	172,400	78 199				
	73.5	115' 2"	35.11	35	10.67	164,600	74 661	165,100	74 888				
	70.8	113' 7"	34.62	40	12.19	144,900	65 725	145,400	65 952				
	65.2	109' 7"	33.39	50	15.24	116,200	52 707	116,700	52 934	114,900	52 117		
	59.3	104' 3"	31.78	60	18.29	96,500	43 771	96,900	43 953	97,400	44 179		
	53.0	97' 7"	29.74	70	21.34	82,100	37 239	82,500	37 421	83,000	37 648		
	46.1	89' 1"	27.14	80	24.38	71,300	32 341	71,700	32 522	72,100	32 704		
	38.4	78' 1"	23.79	90	27.43	62,900	28 530	63,300	28 712	63,600	28 848	57,400	26 036
	29.0	63' 1"	19.22	100	30.48	56,400	25 582	56,700	25 718	57,000	25 854	57,200	25 945
	15.1	38' 4"	11.69	110	33.53	45,200	20 502	45,600	20 683	46,400	21 046	48,400	21 953

* Consult manufacturer for tower heights greater than 162' 7½" (49.57 m).

¹ Load handled off main boom head sheaves with 10' (3.05 m) boom tip extension mounted on boom.

² Measured vertically from center of boom head sheave to base of turntable bearing mounting.

³ Measured from center of tower base section to center of gravity of freely suspended load.



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TG-1900 lifting crane capacities - with climbing frame

Tower - free standing, with climbing frame; 9' 9" x 9' 9" (2.97 x 2.97 m) cross section. Tower heights 40' 0" (12.19 m) through 162' 7 1/2" (49.57 m) - see footnote*.

Boom - **tubular**; 75" x 75" (1.91 x 1.91 m) with 40' (12.19 m) base section, 40' (12.19 m) top section, 15/4" (44 mm) diameter boom pendants, with or without boom tip extension.

Mast - 43' 0 1/8" (13.11 m) over-all height.

Boom tip extension - **tubular**; 14,800# (6 713 kg) rating; 10' (3.05 m) long.

Counterweights - Total 94,400# (42 820 kg). Includes one fixed counterweight - 23,600# (10 705 kg) plus one moving counterweight - 70,800# (32 115 kg) consisting of three sections weighing 23,600# (10 705 kg) each.

Length	Boom		Load radius ³		Capacities - Main boom only ¹							
	Angle Degree	Boom point height ² Feet	Load radius ³		4-part hoist line		3-part hoist line		2-part hoist line		1-part hoist line	
			Feet	meters	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms
120' (36.58 m)	85.6	129' 4"	39.43	13	3.96				114,800	52 072		
	85.1	129' 3"	39.41	14	4.27						57,400	
	84.6	129' 2"	39.38	15	4.57						26 036	
	82.2	128' 7"	39.20	20	6.10							
	79.8	127' 10"	38.96	25	7.62	221,300	100 380	172,200	78 108			
	77.4	126' 10"	38.66	30	9.14	187,700	85 139	172,200	78 108			
	74.9	125' 7"	38.28	35	10.67	162,500	73 708	163,100	73 980			
	72.4	124' 2"	37.83	40	12.19	142,900	64 818	143,500	65 090			
	67.4	120' 6"	36.72	50	15.24	114,400	51 890	115,000	52 163	114,800	52 072	
	62.1	115' 9"	35.28	60	18.29	94,800	43 000	95,300	43 227	95,800	43 454	
	56.5	109' 10"	33.47	70	21.34	80,500	36 514	80,900	36 695	81,400	36 922	
	50.6	102' 5"	31.22	80	24.38	69,600	31 570	70,000	31 751	70,500	31 978	
130' (39.62 m)	44.1	93' 2"	28.41	90	27.43	61,200	27 759	61,600	27 941	62,000	28 122	
	36.7	81' 5"	24.82	100	30.48	54,500	24 720	54,900	24 902	55,200	25 038	
	27.7	65' 7"	19.99	110	33.53	49,200	22 316	49,500	22 452	49,700	22 543	
	14.4	39' 8"	12.09	120	36.58	39,500	17 916	39,800	18 052	40,400	18 325	
	85.5	139' 4"	42.47	14	4.27				114,700	52 027		
	85.1	139' 3"	42.44	15	4.57					57,300	25 990	
	82.8	138' 9"	42.28	20	6.10							
	80.6	138' 0"	42.06	25	7.62							
	78.4	137' 1"	41.77	30	9.14	185,600	84 186	172,100	78 063			
	76.1	135' 11"	41.43	35	10.67	160,500	72 801	161,100	73 073			
	73.8	134' 7"	41.02	40	12.19	141,100	64 001	141,700	64 274	114,700	52 027	
140' (42.67 m)	69.2	131' 3"	40.00	50	15.24	112,700	51 119	113,300	51 392	113,900	51 664	
	64.4	126' 11"	38.69	60	18.29	93,100	42 229	93,700	42 501	94,300	42 773	
	59.4	121' 7"	37.06	70	21.34	78,900	35 788	79,400	36 015	79,900	36 242	
	54.1	115' 1"	35.07	80	24.38	68,000	30 844	68,500	31 071	69,000	31 297	
	48.5	107' 0"	32.62	90	27.43	59,600	27 034	60,000	27 215	60,500	27 442	
	42.3	97' 2"	29.61	100	30.48	52,900	23 995	53,300	24 176	53,700	24 357	
	35.2	84' 8"	25.81	110	33.53	47,500	21 545	47,800	21 681	48,200	21 863	
	26.6	68' 0"	20.73	120	36.58	42,800	19 413	43,100	19 549	43,400	19 685	
	13.9	40' 11"	12.46	130	39.62	34,400	15 603	34,700	15 739	35,300	16 011	
	85.4	149' 3"	45.50	15	4.57				114,600	51 981		
	83.4	148' 9"	45.35	20	6.10					57,300	25 990	
	81.3	148' 1"	45.14	25	7.62							
150' (45.72 m)	79.2	147' 3"	44.88	30	9.14	183,400	83 188	172,000	78 017			
	77.1	146' 2"	44.56	35	10.67	158,500	71 894	159,200	72 211			
	75.0	145' 0"	44.18	40	12.19	139,200	63 140	139,800	63 412	114,600	51 981	
	70.7	141' 11"	43.24	50	15.24	111,000	50 348	111,600	50 620	112,300	50 938	
	66.3	137' 11"	42.05	60	18.29	91,500	41 503	92,100	41 775	92,700	42 048	
	61.8	133' 1"	40.56	70	21.34	77,300	35 062	77,900	35 334	78,500	35 607	
	57.0	127' 2"	38.76	80	24.38	66,500	30 163	67,000	30 390	67,600	30 662	
	52.0	120' 0"	36.59	90	27.43	58,000	26 308	58,500	26 535	59,100	26 807	
	46.6	111' 5"	33.96	100	30.48	51,300	23 269	51,800	23 496	52,300	23 722	
	40.7	100' 11"	30.77	110	33.53	45,800	20 774	46,300	21 001	46,700	21 182	
	33.9	87' 10"	26.76	120	36.58	41,400	18 778	41,800	18 960	42,200	19 141	
	25.6	70' 4"	21.43	130	39.62	37,300	16 918	37,600	17 055	37,900	17 191	
	13.4	42' 1"	12.83	140	42.67	29,900	13 562	30,200	13 698	30,700	13 925	
	85.7	159' 4"	48.56	15	4.57				114,500	51 936		
	83.8	158' 10"	48.42	20	6.10					57,200	25 945	
	81.9	158' 3"	48.22	25	7.62							
	79.9	157' 5"	47.98	30	9.14	181,200	82 190	171,800	77 927			
	78.0	156' 5"	47.68	35	10.67	156,500	70 987	157,200	71 304			
	76.0	155' 3"	47.33	40	12.19	137,300	62 278	138,000	62 595	114,500	51 936	
	72.1	152' 5"	46.46	50	15.24	109,300	49 577	110,000	49 895	110,600	50 167	
	68.0	148' 10"	45.35	60	18.29	89,900	40 777	90,600	41 095	91,200	41 367	
	63.8	144' 4"	43.99	70	21.34	75,700	34 336	76,400	34 654	77,000	34 926	
	59.5	138' 11"	42.34	80	24.38	65,000	29 483	65,600	29 755	66,200	30 027	
	54.9	132' 6"	40.38	90	27.43	56,500	25 627	57,100	25 900	57,700	26 172	
	50.1	124' 10"	38.04	100	30.48	49,800	22 588	50,300	22 815	50,900	23 087	
	44.9	115' 8"	35.25	110	33.53	44,300	20 094	44,800	20 320	45,300	20 547	
	39.2	104' 7"	31.87	120	36.58	39,800	18 052	40,300	18 279	40,700	18 461	
	32.7	90' 9"	27.67	130	39.62	35,900	16 283	36,300	16 465	36,700	16 646	
	24.8	72' 7"	22.11	140	42.67	32,300	14 651	32,600	14 787	32,900	14 923	
	12.9	43' 3"	13.18	150	45.72	25,900	11 748	26,200	11 884	26,600	12 065	

¹ Load handled off main boom head sheaves with 10' (3.05 m) boom tip extension mounted on boom.

² Measured vertically from center of boom head sheave to base of turntable bearing mounting.

³ Measured from center of tower base section to center of gravity of freely suspended load.

5533 (supersedes 5489)-0608-N6

218 HSL Link-Belt Cranes

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TG-1900 lifting crane capacities - with climbing frame

Tower - free standing, with climbing frame; 9' 9" x 9' 9" (2.97 x 2.97 m) cross section. Tower heights 40' 0" (12.19 m) through 162' 7 1/2" (49.57 m) - see footnote*.

Boom - tubular; 75" x 75" (1.91 x 1.91 m) with 40' (12.19 m) base section, 40' (12.19 m) top section, 1 1/4" (44 mm) diameter boom pendants, with or without boom tip extension.

Counterweights - Total 94,400# (42 820 kg). Includes one fixed counterweight - 23,600# (10 705 kg) plus one moving counterweight - 70,800# (32 115 kg) consisting of three sections weighing 23,600# (10 705 kg) each.

Mast - 43' 0 1/8" (13.11 m) over-all height.

Boom tip extension - tubular; 14,800# (6 713 kg) rating; 10' (3.05 m) long.

Length	Boom		Load radius ³		Capacities - Main boom only ¹							
	Angle Degree	Boom point height ² feet			4-part hoist line		3-part hoist line		2-part hoist line		1-part hoist line	
			feet	meters	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms
160' (48.77 m)	84.2	168' 11"	51.48	20	6.10				114,400	51 890		
	82.4	168' 4"	51.30	25	7.62						57,200	25 945
	80.6	167' 7"	51.07	30	9.14							
	78.8	166' 8"	50.79	35	10.67	154,500	70 080	155,200	70 397	51 890		
	76.9	165' 7"	50.47	40	12.19	135,400	61 416	136,100	61 733	114,400		
	73.2	162' 11"	49.65	50	15.24	107,600	48 806	108,300	49 124	109,000	49 441	
	69.4	159' 6"	48.62	60	18.29	88,300	40 052	89,000	40 369	89,700	40 687	
	65.6	155' 5"	47.36	70	21.34	74,200	33 656	74,900	33 974	75,600	34 291	
	61.6	150' 5"	45.84	80	24.38	63,500	28 803	64,100	29 075	64,800	29 392	57,200
	57.4	144' 6"	44.05	90	27.43	55,000	24 947	55,700	25 265	56,300	25 537	57,000
	53.0	137' 7"	41.93	100	30.48	48,300	21 908	48,900	22 180	49,500	22 452	50,200
	48.4	129' 5"	39.44	110	33.53	42,800	19 413	43,400	19 685	44,000	19 958	44,600
	43.4	119' 8"	36.49	120	36.58	38,300	17 372	38,800	17 599	39,400	17 871	39,900
	37.9	108' 1"	32.94	130	39.62	34,600	15 694	35,100	15 921	35,500	16 102	36,000
	31.6	93' 8"	28.55	140	42.67	30,900	14 016	31,400	14 242	31,800	14 424	32,200
	24.0	74' 9"	22.77	150	45.72	27,900	12 655	28,200	12 791	28,500	12 927	28,900
	12.5	44' 4"	13.52	160	48.77	22,300	10 115	22,600	10 251	22,900	10 387	23,700
170'** (51.82 m)	84.5	178' 11"	54.54	20	6.10				114,300	51 845		
	82.8	178' 5"	54.37	25	7.62						57,100	25 900
	81.1	177' 8"	54.16	30	9.14							
	79.4	176' 10"	53.90	35	10.67	152,400	69 127	153,300	69 535			
	77.7	175' 10"	53.59	40	12.19	133,500	60 554	134,300	60 917	114,300	51 845	
	74.2	173' 4"	52.83	50	15.24	105,800	47 990	106,600	48 352	107,400	48 715	
	70.7	170' 2"	51.87	60	18.29	86,700	39 326	87,500	39 689	88,200	40 006	
	67.1	166' 4"	50.69	70	21.34	72,700	32 976	73,400	33 293	74,200	33 656	
	63.4	161' 8"	49.28	80	24.38	62,000	28 122	62,700	28 440	63,400	28 757	57,100
	59.5	156' 3"	47.62	90	27.43	53,600	24 312	54,300	24 630	55,000	24 947	55,700
	55.5	149' 11"	45.68	100	30.48	46,900	21 273	47,600	21 591	48,200	21 863	48,900
	51.3	142' 6"	43.42	110	33.53	41,400	18 778	42,000	19 050	42,700	19 368	43,300
	46.9	133' 10"	40.78	120	36.58	36,900	16 737	37,500	17 009	38,100	17 281	38,700
	42.1	123' 7"	37.68	130	39.62	33,100	15 013	33,700	15 286	34,200	15 512	34,800
	36.8	111' 5"	33.97	140	42.67	29,700	13 471	30,200	13 698	30,700	13 925	31,200
	30.7	96' 6"	29.40	150	45.72	26,600	12 065	27,000	12 246	27,400	12 428	27,800
	23.2	76' 10"	23.41	160	48.77	24,000	10 886	24,300	11 022	24,600	11 158	25,000
	12.1	45' 5"	13.85	170	51.82	19,000	8 618	19,200	8 708	19,600	8 890	20,200
180'** (54.86 m)	84.8	189' 0"	57.60	20	6.10				114,200	51 800		
	83.2	188' 6"	57.45	25	7.62						57,100	25 900
	81.6	187' 10"	57.24	30	9.14							
	80.0	187' 0"	57.00	35	10.67	150,400	68 220	151,200	68 583			
	78.4	186' 1"	56.71	40	12.19	131,600	59 692	132,400	60 055	114,200	51 800	
	75.1	183' 8"	55.99	50	15.24	104,100	47 218	104,900	47 581	105,800	47 990	
	71.8	180' 9"	55.08	60	18.29	85,100	38 600	85,900	38 963	86,700	39 326	
	68.4	177' 1"	53.98	70	21.34	71,100	32 250	71,900	32 613	72,700	32 976	
	65.0	172' 10"	52.67	80	24.38	60,500	27 442	61,300	27 805	62,100	28 168	57,100
	61.4	167' 9"	51.13	90	27.43	52,200	23 677	52,900	23 995	53,700	24 357	54,000
	57.7	161' 10"	49.33	100	30.48	45,500	20 638	46,200	20 955	46,900	21 273	47,700
	53.8	155' 1"	47.26	110	33.53	40,000	18 143	40,700	18 461	41,400	18 778	42,100
	49.8	147' 2"	44.86	120	36.58	35,500	16 102	36,100	16 374	36,800	16 692	37,400
	45.5	138' 1"	42.08	130	39.62	31,700	14 378	32,300	14 651	32,900	14 923	33,500
	40.8	127' 5"	38.83	140	42.67	28,500	12 927	29,100	13 199	29,600	13 426	30,200
	35.7	114' 9"	34.96	150	45.72	25,300	11 475	25,800	11 702	26,300	11 929	26,900
	29.8	99' 2"	30.22	160	48.77	22,600	10 251	23,100	10 477	23,500	10 659	23,900
	22.6	78' 10"	24.03	170	51.82	20,400	9 253	20,700	9 389	21,100	9 570	21,400
	11.8	46' 6"	14.17	180	54.86	16,000	7 257	16,200	7 348	16,500	7 484	17,100

** Consult manufacturer for boom lengths greater than 170' (51.82 m).

¹ Load handled off main boom head sheaves with 10' (3.05 m) boom tip extension mounted on boom.

² Measured vertically from center of boom head sheave to base of turntable bearing mounting.

³ Measured from center of tower base section to center of gravity of freely suspended load.



TG-1900 lifting crane capacities - with climbing frame

Tower - free standing, with climbing frame;
 9' 9" x 9' 9" (2.97 x 2.97 m) cross section.
 Tower heights 40' 0" (12.19 m) through
 162' 7 1/2" (49.57 m) - see footnote.

Boom - tubular; 75" x 75" (1.91 x 1.91 m) with 40'
 (12.19 m) base section, 40' (12.19 m) top
 section, 1 1/4" (44 mm) diameter boom pendants,
 with or without boom tip extension.

Counterweights - Total 94,400# (42 820 kg). Includes
 one fixed counterweight - 23,600# (10 705 kg) plus one
 moving counterweight - 70,800# (32 115 kg) consisting of
 three sections weighing 23,600# (10 705 kg) each.

Mast - 43' 0" (13.11 m) over-all height.

Boom tip extension - tubular; 14,800# (6 713 kg) rating; 10' (3.05 m) long.

Length	Boom		Load radius ³		Capacities - Main boom only ¹							
	Angle	Boom point height ²			4-part hoist line		3-part hoist line		2-part hoist line		1-part hoist line	
		Feet	meters	Feet	meters	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	
190' ** (57.91 m)	85.1	199' 0"	60.66	20	6.10				114,100	51 754		
	83.6	198' 6"	60.51	25	7.62						57,000	25 854
	82.1	197' 11"	60.32	30	9.14							
	80.5	197' 2"	60.09	35	10.67	139,400	63 230	140,300	63 639	51 754		
	79.0	196' 3"	59.81	40	12.19	129,600	58 785	130,500	59 193	114,100		
	75.9	194' 0"	59.14	50	15.24	102,400	46 447	103,300	46 856	104,100	47 218	
	72.8	191' 3"	58.28	60	18.29	83,500	37 874	84,300	38 237	85,200	38 646	
	69.6	187' 10"	57.25	70	21.34	69,600	31 570	70,500	31 978	71,300	32 341	
	66.4	183' 9"	56.01	80	24.38	59,100	26 807	59,900	27 170	60,700	27 533	
	63.0	179' 0"	54.57	90	27.43	50,800	23 042	51,600	23 405	52,400	23 768	
	59.6	173' 7"	52.90	100	30.48	44,100	20 003	44,900	20 366	45,700	20 729	
	56.0	167' 3"	50.98	110	33.53	38,600	17 508	39,400	17 871	40,100	18 189	
	52.3	160' 0"	48.78	120	36.58	34,100	15 467	34,800	15 785	35,500	16 102	
	48.4	151' 9"	46.25	130	39.62	30,300	13 743	31,000	14 061	31,700	14 378	
	44.2	142' 2"	43.34	140	42.67	27,100	12 292	27,800	12 609	28,400	12 882	
	39.7	131' 1"	39.95	150	45.72	24,200	10 976	24,800	11 249	25,400	11 521	
	34.7	117' 11"	35.93	160	48.77	21,400	9 706	21,900	9 933	22,500	10 205	
	29.0	101' 9"	31.02	170	51.82	19,100	8 663	19,500	8 845	20,000	9 071	
	22.0	80' 9"	24.63	180	54.86	17,200	7 801	17,500	7 937	17,900	8 119	
	11.5	47' 6"	14.48	190	57.91	13,200	5 987	13,400	6 078	13,700	6 214	
200' ** (60.96 m)	85.4	209' 1"	63.72	20	6.10				114,000	51 709		
	83.9	208' 7"	63.58	25	7.62						57,000	25 854
	82.5	208' 0"	63.40	30	9.14							
	81.0	207' 3"	63.18	35	10.67							
	79.6	206' 5"	62.92	40	12.19	125,300	56 835	126,300	57 288	114,000	51 709	
	76.6	204' 4"	62.27	50	15.24	100,600	45 631	101,600	46 084	102,500	46 493	
	73.7	201' 8"	61.47	60	18.29	81,900	37 149	82,800	37 557	83,700	37 965	
	70.7	198' 5"	60.49	70	21.34	68,100	30 889	69,000	31 297	69,900	31 706	
	67.6	194' 8"	59.32	80	24.38	57,600	26 126	58,500	26 535	59,400	26 943	
	64.5	190' 2"	57.97	90	27.43	49,300	22 362	50,200	22 770	51,100	23 178	
	61.2	185' 1"	56.41	100	30.48	42,700	19 368	43,500	19 731	44,400	20 139	
	57.9	179' 2"	54.62	110	33.53	37,300	16 918	38,100	17 281	38,900	17 644	
	54.5	172' 6"	52.58	120	36.58	32,700	14 832	33,500	15 195	34,300	15 558	
	50.9	164' 10"	50.25	130	39.62	29,000	13 154	29,700	13 471	30,400	13 789	
	47.1	156' 2"	47.60	140	42.67	25,800	11 702	26,500	12 020	27,200	12 337	
	43.0	146' 2"	44.56	150	45.72	23,000	10 432	23,700	10 750	24,300	11 022	
	38.6	134' 7"	41.03	160	48.77	20,300	9 207	20,900	9 480	21,500	9 752	
	33.8	121' 0"	36.87	170	51.82	17,900	8 119	18,400	8 346	18,900	8 572	
	28.2	104' 4"	31.80	180	54.86	15,800	7 166	16,300	7 393	16,700	7 574	
	21.4	82' 8"	25.21	190	57.91	14,200	6 441	14,500	6 577	14,900	6 758	
	11.2	48' 6"	14.78	200	60.96	10,600	4 808	11,200	5 080	11,100	5 034	11,500

** Consult manufacturer for boom lengths greater than 170' (51.82 m).

¹ Load handled off main boom head sheaves with 10' (3.05 m) boom tip extension mounted on boom.

² Measured vertically from center of boom head sheave to base of turntable bearing mounting.

³ Measured from center of tower base section to center of gravity of freely suspended load.



TG-1900 lifting crane capacities - pedestal, bogie, or gantry mounted

Mounting - pedestal, bogie, or gantry

Boom - **tubular**: 75" x 75" (1.91 x 1.91 m) with 40' (12.19 m) base section, 40' (12.19 m) top section, 13/4" (44 mm) diameter boom pendants, with or without boom tip extension.

Counterweights - Total 94,400# (42 820 kg). Includes one fixed counterweight - 23,600# (10 705 kg) plus one moving counterweight - 70,800# (32 115 kg) consisting of three sections weighing 23,600# (10 705 kg) each.

Mast - 43' 0_{1/8}" (13.11 m) over-all height.

Boom tip extension - **tubular**: 14,800# (6 713 kg) rating; 10' (3.05 m) long.

Length	Boom		Boom point height ¹		Load radius ²		Capacities - Main boom only ³							
	Angle	Boom point height ¹		Load radius ²		4-part hoist line		3-part hoist line		2-part hoist line		1-part hoist line		
		Degree	Feet	meters	Feet	meters	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms
80' (24.38 m)	85.5	89' 6"	27.27	10	3.05						115,200	52 253		
	84.8	89' 5"	27.25	11	3.35									
	84.1	89' 4"	27.22	12	3.66									
	83.4	89' 2"	27.19	13	3.96									
	82.7	89' 1"	27.15	14	4.27									
	81.9	88' 11"	27.11	15	4.57									
	78.3	88' 1"	26.84	20	6.10	230,400	104 507	172,800	78 380					
	74.6	86' 10"	26.48	25	7.62	230,400	104 507							
	70.9	85' 4"	26.00	30	9.14	217,600	98 701							
	67.0	83' 5"	25.42	35	10.67	186,400	84 549	172,800	78 380					
	63.1	81' 1"	24.71	40	12.19	162,600	73 754	163,000	73 935					
90' (27.43 m)	54.7	75' 0"	22.87	50	15.24	128,900	58 468	129,200	58 604	115,200	52 253			
	45.4	66' 8"	20.31	60	18.29	106,300	48 216	106,600	48 352	106,800	48 443			
	34.1	54' 8"	16.65	70	21.34	90,200	40 914	90,400	41 004	90,700	41 140			
	17.7	34' 1"	10.38	80	24.38	69,000	31 297	69,700	31 615	71,100	32 250	57,600	26 126	
	85.4	99' 5"	30.31	11	3.35									
	84.8	99' 4"	30.28	12	3.66									
	84.1	99' 3"	30.25	13	3.96									
	83.5	99' 2"	30.22	14	4.27									
	82.8	99' 0"	30.18	15	4.57									
	79.6	98' 3"	29.95	20	6.10	230,300	104 462	172,700	78 335					
	76.4	97' 2"	29.62	25	7.62	230,300	104 462							
	73.1	95' 10"	29.21	30	9.14	216,400	98 157							
100' (30.48 m)	69.7	94' 2"	28.69	35	10.67	185,100	83 959	172,700	78 335					
	66.3	92' 1"	28.08	40	12.19	161,300	73 164	161,700	73 345					
	59.1	86' 11"	26.50	50	15.24	127,500	57 833	127,900	58 014	115,100	52 208			
	51.4	80' 0"	24.39	60	18.29	104,800	47 536	105,100	47 672	105,500	47 854			
	42.6	70' 8"	21.55	70	21.34	88,600	40 188	88,900	40 324	89,100	40 415			
	32.1	57' 7"	17.56	80	24.38	76,500	34 699	76,700	34 790	77,000	34 926			
	16.7	35' 7"	10.84	90	27.43	59,700	27 079	60,300	27 351	61,400	27 850	57,500	26 081	
	85.3	109' 5"	33.34	12	3.66									
	84.7	109' 4"	33.31	13	3.96									
	84.1	109' 2"	33.28	14	4.27									
	83.6	109' 1"	33.25	15	4.57									
110' (33.53 m)	80.7	108' 5"	33.04	20	6.10									
	77.8	107' 5"	32.75	25	7.62	230,100	104 371	172,500	78 244					
	74.8	106' 3"	32.38	30	9.14	215,100	97 567	172,500	78 244					
	71.8	104' 9"	31.92	35	10.67	183,900	83 415	172,500	78 244					
	68.8	102' 11"	31.38	40	12.19	160,100	72 620	160,500	72 801					
	62.5	98' 5"	29.99	50	15.24	126,300	57 288	126,700	57 470	115,000	52 163			
	55.8	92' 5"	28.17	60	18.29	103,500	46 946	103,900	47 128	104,300	47 309			
	48.5	84' 8"	25.81	70	21.34	87,100	39 507	87,500	39 689	87,900	39 870			
	40.4	74' 6"	22.70	80	24.38	74,900	33 974	75,200	34 110	75,600	34 291			
	30.4	60' 5"	18.41	90	27.43	65,600	29 755	65,800	29 846	66,100	29 982			
	15.8	37' 0"	11.28	100	30.48	51,900	23 541	52,400	23 768	53,300	24 176	57,500	26 081	
	85.2	119' 4"	36.37	13	3.96									
	84.7	119' 3"	36.35	14	4.27									
	84.2	119' 2"	36.32	15	4.57									
	81.5	118' 6"	36.13	20	6.10									
	78.9	117' 8"	35.86	25	7.62	229,900	104 280	172,400	78 199					
	76.2	116' 7"	35.53	30	9.14	214,000	97 280	172,400	78 199					
	73.5	115' 2"	35.11	35	10.67	182,700	82 871	172,400	78 199					
	70.8	113' 7"	34.62	40	12.19	158,900	72 075	159,400	72 302					
	65.2	109' 7"	33.39	50	15.24	125,100	56 744	125,600	56 971	114,900	52 117			
	59.3	104' 3"	31.78	60	18.29	102,300	46 402	102,700	46 583	103,200	46 810			
	53.0	97' 7"	29.74	70	21.34	85,900	38 963	86,300	39 145	86,700	39 326			
	46.1	89' 1"	27.14	80	24.38	73,600	33 384	74,000	33 565	74,300	33 701			
	38.4	78' 1"	23.79	90	27.43	64,100	29 075	64,400	29 211	64,800	29 392			
	29.0	63' 1"	19.22	100	30.48	56,700	25 718	56,900	25 809	57,200	25 945			
	15.1	38' 4"	11.69	110	33.53	45,200	20 502	45,600	20 683	46,400	21 046	57,400	26 036	
												48,400	21 953	

¹ Load handled off main boom head sheaves with 10' (3.05 m) boom tip extension mounted on boom.

² Measured vertically from center of boom head sheave to base of turntable bearing mounting.

³ Measured from centerline of rotation to center of gravity of freely suspended load.



TG-1900 lifting crane capacities - pedestal, bogie, or gantry mounted

Mounting - pedestal, bogie, or gantry

Boom - tubular; 75" x 75" (1.91 x 1.91 m) with 40' (12.19 m) base section, 40' (12.19 m) top section, 134" (44 mm) diameter boom pendants, with or without boom tip extension.

Mast - 43' 0 1/8" (13.11 m) over-all height.

Boom tip extension - tubular; 14,800# (6 713 kg) rating; 10' (3.05 m) long.

Counterweights - Total 94,400# (42 820 kg). Includes one fixed counterweight - 23,600# (10 705 kg) plus one moving counterweight - 70,800# (32 115 kg) consisting of three sections weighing 23,600# (10 705 kg) each.

Length (m)	Boom			Load radius ^a		Capacities - Main boom only ^b									
	Angle Degree	Boom point height ^c				4-part hoist line		3-part hoist line		2-part hoist line		1-part hoist line			
		Feet	meters			Feet	meters	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms		
120' (36.58 m)	85.6	129' 4"	39.43	13	3.96					114,800	52 072				
	85.1	129' 3"	39.41	14	4.27										
	84.6	129' 2"	39.38	15	4.57										
	82.2	128' 7"	39.20	20	6.10										
	79.8	127' 10"	38.96	25	7.62	229,700	104 190	172,200	78 108						
	77.4	126' 10"	38.66	30	9.14	212,900	96 569	172,200	78 108						
	74.9	125' 7"	38.28	35	10.67	181,600	82 372	172,200	78 108						
	72.4	124' 2"	37.83	40	12.19	157,800	71 576	158,300	71 803						
	67.4	120' 6"	36.72	50	15.24	123,900	56 200	124,500	56 472	114,800	52 072				
	62.1	115' 9"	35.28	60	18.29	101,100	45 858	101,600	46 084	102,100	46 311				
	56.5	109' 10"	33.47	70	21.34	84,700	38 419	85,100	38 600	85,600	38 827				
	50.6	102' 5"	31.22	80	24.38	72,300	32 794	72,800	33 021	73,200	33 202				
	44.1	93' 2"	28.41	90	27.43	62,800	28 485	63,200	28 667	63,600	28 848				
	36.7	81' 5"	24.82	100	30.48	55,200	25 038	55,600	25 219	55,900	25 355	57,400	56,200		
	27.7	65' 7"	19.99	110	33.53	49,200	22 316	49,500	22 452	49,700	22 543	50,000	22 679		
	14.4	39' 8"	12.09	120	36.58	39,500	17 916	39,800	18 052	40,400	18 325	42,000	19 050		
130' (39.62 m)	85.5	139' 4"	42.47	14	4.27					114,700	52 027				
	85.1	139' 3"	42.44	15	4.57										
	82.8	138' 9"	42.28	20	6.10										
	80.6	138' 0"	42.06	25	7.62										
	78.4	137' 1"	41.77	30	9.14	211,900	96 116	172,100	78 063						
	76.1	135' 11"	41.43	35	10.67	180,600	81 918	172,100	78 063						
	73.8	134' 7"	41.02	40	12.19	156,700	71 077	157,300	71 350						
	69.2	131' 3"	40.00	50	15.24	122,900	55 746	123,400	55 973	114,700	52 027				
	64.4	126' 11"	38.69	60	18.29	100,000	45 359	100,500	45 586	101,100	45 858				
	59.4	121' 7"	37.06	70	21.34	83,500	37 874	84,100	38 147	84,600	38 373				
	54.1	115' 1"	35.07	80	24.38	71,100	32 250	71,600	32 477	72,200	32 749				
	48.5	107' 0"	32.62	90	27.43	61,500	27 895	62,000	28 122	62,500	28 349	57,300	25 990		
	42.3	97' 2"	29.61	100	30.48	53,900	24 448	54,300	24 630	54,800	24 856	55,200	25 038		
	35.2	84' 8"	25.81	110	33.53	47,800	21 681	48,100	21 817	48,500	21 999	48,900	22 180		
	26.6	68' 0"	20.73	120	36.58	42,800	19 413	43,100	19 549	43,400	19 685	43,700	19 821		
	13.9	40' 11"	12.46	130	39.62	34,400	15 603	34,700	15 739	35,300	16 011	36,600	16 601		
140' (42.67 m)	85.4	149' 3"	45.50	15	4.57					114,600	51 981				
	83.4	148' 9"	45.35	20	6.10										
	81.3	148' 1"	45.14	25	7.62										
	79.2	147' 3"	44.88	30	9.14	210,800	95 617	172,000	78 017						
	77.1	146' 2"	44.56	35	10.67	179,500	81 419	172,000	78 017						
	75.0	145' 0"	44.18	40	12.19	155,600	70 578	156,300	70 896						
	70.7	141' 11"	43.24	50	15.24	121,800	55 247	122,400	55 519	114,600	51 981				
	66.3	137' 11"	42.05	60	18.29	98,900	44 860	99,500	45 132	100,100	45 404				
	61.8	133' 1"	40.56	70	21.34	82,400	37 376	83,000	37 648	83,600	37 920				
	57.0	127' 2"	38.76	80	24.38	70,000	31 751	70,600	32 023	71,100	32 250				
	52.0	120' 0"	36.59	90	27.43	60,400	27 396	60,900	27 623	61,400	27 850	57,300	25 990		
	46.6	111' 5"	33.96	100	30.48	52,700	23 904	53,200	24 131	53,700	24 357	54,200	24 584		
	40.7	100' 11"	30.77	110	33.53	46,500	21 092	46,900	21 273	47,400	21 500	47,800	21 681		
	33.9	87' 10"	26.76	120	36.58	41,400	18 778	41,800	18 960	42,200	19 141	42,500	19 277		
	25.6	70' 4"	21.43	130	39.62	37,300	16 918	37,600	17 055	37,900	17 191	38,100	17 281		
	13.4	42' 1"	12.83	140	42.67	29,900	13 562	30,200	13 698	30,700	13 925	31,800	14 424		
150' (45.72 m)	85.7	159' 4"	48.56	15	4.57					114,500	51 936				
	83.8	158' 10"	48.42	20	6.10										
	81.9	158' 3"	48.22	25	7.62										
	79.9	157' 5"	47.98	30	9.14	209,700	95 118	171,800	77 927						
	78.0	156' 5"	47.68	35	10.67	178,400	80 920	171,800	77 927						
	76.0	155' 3"	47.33	40	12.19	154,600	70 125	155,300	70 442						
	72.1	152' 5"	46.46	50	15.24	120,700	54 748	121,400	55 066	114,500	51 936				
	68.0	148' 10"	45.35	60	18.29	97,800	44 361	98,500	44 678	99,200	44 996				
	63.8	144' 4"	43.99	70	21.34	81,300	36 877	82,000	37 194	82,600	37 466				
	59.5	138' 11"	42.34	80	24.38	68,900	31 252	69,500	31 524	70,200	31 842				
	54.9	132' 6"	40.38	90	27.43	59,300	26 898	59,800	27 124	60,400	27 396	57,200	25 945		
	50.1	124' 10"	38.04	100	30.48	51,500	23 360	52,100	23 632	52,700	23 904	53,200	24 131		
	44.9	115' 8"	35.25	110	33.53	45,300	20 547	45,800	20 774	46,300	21 001	46,800	21 228		
	39.2	104' 7"	31.87	120	36.58	40,100	18 189	40,600	18 415	41,100	18 642	41,500	18 824		
	32.7	90' 9"	27.67	130	39.62	35,900	16 283	36,300	16 465	36,700	16 646	37,100	16 828		
	24.8	72' 7"	22.11	140	42.67	32,300	14 651	32,600	14 787	32,900	14 923	33,200	15 059		
	12.9	43' 3"	13.18	150	45.72	25,900	11 748	26,200	11 884	26,600	12 065	27,500	12 473		

* Load handled off main boom head sheaves with 10' (3.05 m) boom tip extension mounted on boom.
 ^ Measured vertically from center of boom head sheave to base of turntable bearing mounting.
 ^ Measured from centerline of rotation to center of gravity of freely suspended load.

218 HSL Link-Belt Cranes

5533 (supersedes 5489)-0608-N6

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702-400-2516 or 702-525-0840

sales@reliablecraneservice.com



TG-1900 lifting crane capacities - pedestal, bogie, or gantry mounted

Mounting - pedestal, bogie, or gantry

Boom - **tubular**: 75" x 75" (1.91 x 1.91 m) with 40°
 (12.19 m) base section, 40° (12.19 m) top section, 13/4" (44 mm) diameter boom pendants, with or without boom tip extension.

Mast - 43' 0^{1/8}" (13.11 m) over-all height.

Boom tip extension - **tubular**: 14,800# (6 713 kg) rating; 10' (3.05 m) long.

Counterweights - Total 94,400# (42,820 kg). Includes one fixed counterweight - 23,600# (10,705 kg) plus one moving counterweight - 70,800# (32,115 kg) consisting of three sections weighing 23,600# (10,705 kg) each.

Length	Boom		Load radius ³		Capacities - Main boom only ¹							
	Angle Degree	Boom point height ²			4-part hoist line		3-part hoist line		2-part hoist line		1-part hoist line	
		Feet	meters	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	
160' (48.77 m)	84.2	168' 11"	51.48	20	6.10				114,400	51 890		
	82.4	168' 4"	51.30	25	7.62						57,200	25 945
	80.6	167' 7"	51.07	30	9.14							
	78.8	166' 8"	50.79	35	10.67	172,400	78 199	171,700	77 881			
	76.9	165' 7"	50.47	40	12.19	149,600	67 857	153,500	69 626			
	73.2	162' 11"	49.65	50	15.24	118,800	53 886	120,400	54 612	114,400	51 890	
	69.4	159' 6"	48.62	60	18.29	96,800	43 907	97,500	44 225	98,200	44 542	
	65.6	155' 5"	47.36	70	21.34	80,300	36 423	81,000	36 740	81,700	37 058	
	61.6	150' 5"	45.84	80	24.38	67,800	30 753	68,500	31 071	69,200	31 388	
	57.4	144' 6"	44.05	90	27.43	58,200	26 399	58,800	26 671	59,500	26 988	57,200
	53.0	137' 7"	41.93	100	30.48	50,400	22 861	51,000	23 133	51,700	23 450	52,300
	48.4	129' 5"	39.44	110	33.53	44,100	20 003	44,700	20 275	45,300	20 547	45,900
	43.4	119' 8"	36.49	120	36.58	39,000	17 690	39,500	17 916	40,000	18 143	40,500
	37.9	108' 1"	32.94	130	39.62	34,600	15 694	35,100	15 921	35,600	16 147	36,100
	31.6	93' 8"	28.55	140	42.67	30,900	14 016	31,400	14 242	31,800	14 424	32,200
	24.0	74' 9"	22.77	150	45.72	27,900	12 655	28,200	12 791	28,500	12 927	28,900
	12.5	44' 4"	13.52	160	48.77	22,300	10 115	22,600	10 251	22,900	10 387	23,700
170' (51.82 m)	84.5	178' 11"	54.54	20	6.10				114,300	51 845		
	82.8	178' 5"	54.37	25	7.62						57,100	25 900
	81.1	177' 8"	54.16	30	9.14							
	79.4	176' 10"	53.90	35	10.67	165,600	75 114	166,400	75 477			
	77.7	175' 10"	53.59	40	12.19	144,000	65 317	147,700	66 995			
	74.2	173' 4"	52.83	50	15.24	114,000	51 709	116,600	52 888	114,300	51 845	
	70.7	170' 2"	51.87	60	18.29	94,400	42 819	96,500	43 771	97,300	44 134	
	67.1	166' 4"	50.69	70	21.34	79,200	35 924	80,000	36 287	80,700	36 604	
	63.4	161' 8"	49.28	80	24.38	66,800	30 299	67,500	30 617	68,300	30 980	
	59.5	156' 3"	47.62	90	27.43	57,100	25 900	57,800	26 217	58,500	26 535	57,100
	55.5	149' 11"	45.68	100	30.48	49,400	22 407	50,000	22 679	50,700	22 997	51,400
	51.3	142' 6"	43.42	110	33.53	43,000	19 504	43,700	19 821	44,300	20 094	45,000
	46.9	133' 10"	40.78	120	36.58	37,800	17 145	38,400	17 417	39,000	17 690	39,600
	42.1	123' 7"	37.68	130	39.62	33,500	15 195	34,000	15 422	34,600	15 694	35,100
	36.8	111' 5"	33.97	140	42.67	29,700	13 471	30,200	13 698	30,700	13 925	31,200
	30.7	96' 6"	29.40	150	45.72	26,600	12 065	27,000	12 246	27,400	12 428	27,800
	23.2	76' 10"	23.41	160	48.77	24,000	10 886	24,300	11 022	24,600	11 158	25,000
	12.1	45' 5"	13.85	170	51.82	19,000	8 618	19,200	8 708	19,600	8 890	20,200
180' (54.86 m)	84.8	189' 0"	57.60	20	6.10				114,200	51 800		
	83.2	188' 6"	57.45	25	7.62						57,100	25 900
	81.6	187' 10"	57.24	30	9.14							
	80.0	187' 0"	57.00	35	10.67	152,500	69 172	153,400	69 581			
	78.4	186' 1"	56.71	40	12.19	138,900	63 003	142,500	64 636			
	75.1	183' 8"	55.99	50	15.24	109,600	49 713	112,200	50 893	114,200	51 800	
	71.8	180' 9"	55.08	60	18.29	90,500	41 050	92,600	42 002	96,000	43 544	
	68.4	177' 1"	53.98	70	21.34	76,900	34 881	78,700	35 697	79,800	36 196	
	65.0	172' 10"	52.67	80	24.38	65,800	29 846	66,500	30 163	67,300	30 526	
	61.4	167' 9"	51.13	90	27.43	56,100	25 446	56,800	25 764	57,600	26 126	57,100
	57.7	161' 10"	49.33	100	30.48	48,300	21 908	49,000	22 226	49,800	22 588	50,500
	53.8	155' 1"	47.26	110	33.53	42,000	19 050	42,700	19 368	43,400	19 685	44,100
	49.8	147' 2"	44.86	120	36.58	36,700	16 646	37,400	16 964	38,000	17 236	38,700
	45.5	138' 1"	42.08	130	39.62	32,300	14 651	32,900	14 923	33,600	15 240	34,200
	40.8	127' 5"	38.83	140	42.67	28,600	12 972	29,100	13 199	29,700	13 471	30,300
	35.7	114' 9"	34.96	150	45.72	25,300	11 475	25,800	11 702	26,300	11 929	26,900
	29.8	99' 2"	30.22	160	48.77	22,600	10 251	23,100	10 477	23,500	10 659	23,900
	22.6	78' 10"	24.03	170	51.82	20,400	9 253	20,700	9 389	21,100	9 570	21,400
	11.8	46' 6"	14.17	180	54.86	16,000	7 257	16,200	7 348	16,500	7 484	17,100

¹ Load handled off main boom head sheaves with 10' (3.05 m) boom tip extension mounted on boom.

² Measured vertically from center of boom head sheave to base of turntable bearing mounting.

³ Measured from centerline of rotation to center of gravity of freely suspended load.



TG-1900 lifting crane capacities - pedestal, bogie, or gantry mounted

Mounting - pedestal, bogie, or gantry

Boom - **tubular**; **75" x 75"** (1.91 x 1.91 m) with **40'** (12.19 m) base section, **40'** (12.19 m) top section, **15"** (44 mm) diameter boom pendants, with or without boom tip extension.

Mast - **43' 0^{1/8}"** (13.11 m) over-all height.

Boom tip extension - **tubular**; **14,800#** (6 713 kg) rating; **10'** (3.05 m) long.

Counterweights - Total **94,400#** (42 820 kg). Includes one fixed counterweight - **23,600#** (10 705 kg) plus one moving counterweight - **70,800#** (32 115 kg) consisting of three sections weighing **23,600#** (10 705 kg) each.

Length	Boom		Load radius ³		Capacities - Main boom only ¹							
	Angle Degree	Boom point height ² Feet	Load radius ³		4-part hoist line		3-part hoist line		2-part hoist line		1-part hoist line	
			Feet	meters	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms	Pounds	kilograms
190' (57.91 m)	85.1	199' 0"	60.66	20	6.1				114,100	51 754		
	83.6	198' 6"	60.51	25	7.62						57,000	25 854
	82.1	197' 11"	60.32	30	9.14							
	80.5	197' 2"	60.09	35	10.67	139,400	63 230	140,300	63 639			
	79.0	196' 3"	59.81	40	12.19	134,200	60 872	137,700	62 459	114,100	51 754	
	75.9	194' 0"	59.14	50	15.24	105,500	47 854	108,000	48 987	112,500	51 029	
	72.8	191' 3"	58.28	60	18.29	86,900	39 417	88,900	40 324	92,200	41 821	
	69.6	187' 10"	57.25	70	21.34	73,700	33 429	75,400	34 200	78,100	35 425	
	66.4	183' 9"	56.01	80	24.38	63,700	28 893	65,200	29 574	66,400	30 118	
	63.0	179' 0"	54.57	90	27.43	55,000	24 947	55,800	25 310	56,700	25 718	
	59.6	173' 7"	52.9	100	30.48	47,300	21 454	48,000	21 772	48,800	22 135	
	56.0	167' 3"	50.98	110	33.53	40,900	18 551	41,700	18 914	42,400	19 232	
	52.3	160' 0"	48.78	120	36.58	35,700	16 193	36,400	16 510	37,100	16 828	
	48.4	151' 9"	46.25	130	39.62	31,200	14 152	31,900	14 469	32,600	14 787	
	44.2	142' 2"	43.34	140	42.67	27,500	12 473	28,100	12 745	28,700	13 018	
	39.7	131' 1"	39.95	150	45.72	24,200	10 976	24,800	11 249	25,400	11 521	
	34.7	117' 11"	35.93	160	48.77	21,400	9 706	21,900	9 933	22,500	10 205	
	29.0	101' 9"	31.02	170	51.82	19,100	8 663	19,500	8 845	20,000	9 071	
	22.0	80' 9"	24.63	180	54.86	17,200	7 801	17,500	7 937	17,900	8 119	
	11.5	47' 6"	14.48	190	57.91	13,200	5 987	13,400	6 078	13,700	6 214	
200' (60.96 m)	85.4	209' 1"	63.72	20	6.1				114,000	51 709		
	83.9	208' 7"	63.58	25	7.62					57,000	25 854	
	82.5	208' 0"	63.40	30	9.14							
	81.0	207' 3"	63.18	35	10.67							
	79.6	206' 5"	62.92	40	12.19	125,300	56 835	126,300	57 288	114,000	51 709	
	76.6	204' 4"	62.27	50	15.24	101,600	46 084	104,200	47 264	108,600	49 260	
	73.7	201' 8"	61.47	60	18.29	83,400	37 829	85,500	38 782	88,800	40 279	
	70.7	198' 5"	60.49	70	21.34	70,600	32 023	72,300	32 794	74,900	33 974	
	67.6	194' 8"	59.32	80	24.38	60,900	27 623	62,400	28 304	64,600	29 302	
	64.5	190' 2"	57.97	90	27.43	53,200	24 131	54,600	24 766	55,700	25 265	
	61.2	185' 1"	56.41	100	30.48	46,200	20 955	47,100	21 364	47,900	21 727	
	57.9	179' 2"	54.62	110	33.53	39,900	18 098	40,700	18 461	41,500	18 824	
	54.5	172' 6"	52.58	120	36.58	34,600	15 694	35,400	16 057	36,200	16 420	
	50.9	164' 10"	50.25	130	39.62	30,200	13 698	30,900	14 016	31,700	14 378	
	47.1	156' 2"	47.60	140	42.67	26,400	11 974	27,100	12 292	27,800	12 609	
	43.0	146' 2"	44.56	150	45.72	23,100	10 477	23,700	10 750	24,400	11 067	
	38.6	134' 7"	41.03	160	48.77	20,300	9 207	20,900	9 480	21,500	9 752	
	33.8	121' 0"	36.87	170	51.82	17,900	8 119	18,400	8 346	18,900	8 572	
	28.2	104' 4"	31.80	180	54.86	15,800	7 166	16,300	7 393	16,700	7 574	
	21.4	82' 8"	25.21	190	57.91	14,200	6 441	14,500	6 577	14,900	6 758	
	11.2	48' 6"	14.78	200	60.96	10,600	4 808	10,800	4 898	11,100	5 034	
										11,500	5 216	

¹ Load handled off main boom head sheaves with **10'** (3.05 m) boom tip extension mounted on boom.

² Measured vertically from center of boom head sheave to base of turntable bearing mounting.

³ Measured from centerline of rotation to center of gravity of freely suspended load.



Link-Belt® TG-1900 jib capacities

Boom Length	Jib Length	Load Radius		Boom angle	Jib offset 15°			
					2-part load hoist line		1-part load hoist line	
		Feet	meters		Degrees	Pounds	kilograms	Pounds
120' (36.58 m)	30' (9.14 m)	35	10.67	80.4	29,600	13 426	14,800	6 713
		40	12.19	78.5	29,600	13 426		
		50	15.24	74.5	29,600	13 426		
		60	18.29	70.4	28,300	12 837		
		70	21.34	66.2	25,400	11 521		
		80	24.38	61.9	23,100	10 478		
		90	27.43	57.3	21,200	9 616		
		100	30.48	52.5	19,700	8 936		
		110	33.53	47.3	18,400	8 346		
		120	36.58	41.5	17,300	7 847		
		130	39.62	35.0	16,500	7 484		
		140	42.67	26.9	15,900	7 212	14,800	6 713
		50	15.24	78.1	20,400	9 253	14,700	6 668
		60	18.29	74.5	18,100	8 210		
120' (36.58 m)	50' (15.24 m)	70	21.34	70.9	16,200	7 348		
		80	24.38	67.2	14,700	6 668	14,700	6 668
		90	27.43	63.3	13,500	6 124	14,600	6 623
		100	30.48	59.3	12,500	5 670	13,400	6 078
		110	33.53	55.1	11,600	5 262	12,500	5 670
		120	36.58	50.6	10,900	4 944	11,600	5 262
		130	39.62	45.7	10,300	4 672	10,900	4 944
		140	42.67	40.3	9,700	4 400	10,400	4 717
		150	45.72	34.1	9,300	4 218	9,900	4 491
		160	48.77	26.5	9,000	4 082	9,500	4 309
		60	18.29	77.7	13,100	5 942	14,300	6 486
		70	21.34	74.5	11,700	5 307	12,700	5 761
		80	24.38	71.3	10,600	4 808	11,400	5 171
		90	27.43	67.9	9,600	4 355	10,400	4 717
120' (36.58 m)	70' (21.34 m)	100	30.48	64.5	8,800	3 992	9,500	4 309
		110	33.53	60.9	8,200	3 720	8,800	3 992
		120	36.58	57.1	7,600	3 447	8,100	3 674
		130	39.62	53.2	7,100	3 221	7,600	3 447
		140	42.67	48.9	6,700	3 039	7,100	3 221
		150	45.72	44.4	6,300	2 858	6,700	3 039
		160	48.77	39.3	6,000	2 722	6,400	2 903
		170	51.82	33.4	5,800	2 631	6,100	2 767
		180	54.86	26.2	5,600	2 540	5,900	2 676



TG-1900 jib capacities

Boom Length	Jib Length	Load Radius		Boom angle	Jib offset 15°			
					2-part load hoist line		1-part load hoist line	
		Feet	meters	Degrees	Pounds	kilograms	Pounds	kilograms
30' (9.14 m)	30'	40	12.19	79.2	29,500	13 381	14,700	6 668
		50	15.24	75.5	29,500	13 381		
		60	18.29	71.7	29,300	13 290		
		70	21.34	67.8	26,400	11 975		
		80	24.38	63.8	24,000	10 886		
		90	27.43	59.6	22,100	10 025		
		100	30.48	55.3	20,500	9 299		
		110	33.53	50.6	19,200	8 709		
		120	36.58	45.6	18,000	8 165		
		130	39.62	40.1	17,100	7 757		
		140	42.67	33.7	16,400	7 439		
		150	45.72	25.9	15,800	7 167	14,700	6 668
130' (39.62 m)	130'	50	15.24	78.8	20,900	9 530	14,700	6 668
		60	18.29	75.4	18,600	8 437		
		70	21.34	72.0	16,700	7 575		
		80	24.38	68.5	15,200	6 895		
		90	27.43	65.0	14,000	6 350	14,700	6 668
		100	30.48	61.2	12,900	5 851	14,000	6 350
		110	33.53	57.4	12,000	5 443	13,000	5 897
		120	36.58	53.3	11,300	5 126	12,100	5 489
		130	39.62	48.9	10,600	4 808	11,400	5 171
		140	42.67	44.2	10,100	4 581	10,800	4 899
		150	45.72	39.0	9,600	4 355	10,200	4 627
		160	48.77	33.0	9,300	4 218	9,800	4 445
		170	51.82	25.6	9,000	4 082	9,500	4 309
70' (21.34 m)	70'	60	18.29	78.4	13,400	6 078	14,700	6 668
		70	21.34	75.4	12,000	5 443	13,100	5 942
		80	24.38	72.3	10,900	4 944	11,800	5 352
		90	27.43	69.1	9,900	4 491	10,700	4 854
		100	30.48	65.9	9,100	4 128	9,800	4 445
		110	33.53	62.5	8,400	3 810	9,100	4 128
		120	36.58	59.1	7,900	3 583	8,400	3 810
		130	39.62	55.4	7,400	3 357	7,900	3 583
		140	42.67	51.6	6,900	3 130	7,400	3 357
		150	45.72	47.5	6,500	2 948	7,000	3 175
		160	48.77	43.1	6,200	2 812	6,600	2 994
		170	51.82	38.1	6,000	2 722	6,300	2 858
		180	54.86	32.4	5,700	2 586	6,100	2 767
		190	57.91	25.3	5,600	2 540	5,900	2 676

**TG-1900 jib capacities**

Boom Length	Jib Length	Load Radius		Boom angle Degrees	Jib offset 15°			
					2-part load hoist line		1-part load hoist line	
		Feet	meters		Pounds	kilograms	Pounds	kilograms
140' (42.67 m)	30' (9.14 m)	40	12.19	79.9	29,500	13 381	14,700	6 668
		50	15.24	76.4	29,500	13 381		
		60	18.29	72.8	29,500	13 381		
		70	21.34	69.2	27,300	12 383		
		80	24.38	65.6	24,900	11 295		
		90	27.43	61.6	22,900	10 387		
		100	30.48	57.6	21,300	9 662		
		110	33.53	53.4	19,900	9 027		
		120	36.58	48.9	18,700	8 482		
		130	39.62	44.1	17,700	8 029		
		140	42.67	38.8	16,900	7 666		
	50' (15.24 m)	150	45.72	32.6	16,300	7 394		
		160	48.77	25.1	15,800	7 167	14,700	6 668
		50	15.24	79.4	21,400	9 707	14,700	6 668
		60	18.29	76.2	19,100	8 664		
		70	21.34	73.0	17,200	7 802		
		80	24.38	69.8	15,700	7 122		
	70' (21.34 m)	90	27.43	66.4	14,400	6 532	14,700	6 668
		100	30.48	63.0	13,300	6 033	14,500	6 577
		110	33.53	59.4	12,400	5 625	13,400	6 078
		120	36.58	55.6	11,700	5 307	12,600	5 715
		130	39.62	51.7	11,000	4 990	11,800	5 352
		140	42.67	47.5	10,400	4 717	11,200	5 080
		150	45.72	42.9	9,900	4 491	10,600	4 808
		160	48.77	37.8	9,500	4 309	10,100	4 581
		170	51.82	32.0	9,200	4 173	9,700	4 400
		180	54.86	24.8	9,000	4 082	9,500	4 309



TG-1900 jib capacities

Boom Length	Jib Length	Load Radius		Boom angle Degrees	Jib offset 15°			
					2-part load hoist line		1-part load hoist line	
		Feet	meters		Pounds	kilograms	Pounds	kilograms
150' (45.72 m)	30' (9.14 m)	40	12.19	80.4	29,500	13 381	14,700	6 668
		50	15.24	77.2	29,500	13 381		
		60	18.29	73.8	29,500	13 381		
		70	21.34	70.4	28,200	12 792		
		80	24.38	67.0	25,800	11 703		
		90	27.43	63.4	23,800	10 796		
		100	30.48	59.7	22,100	10 025		
		110	33.53	55.8	20,600	9 344		
		120	36.58	51.8	19,400	8 800		
		130	39.62	47.4	18,400	8 346		
	50' (15.24 m)	140	42.67	42.7	17,500	7 938		
		150	45.72	37.6	16,700	7 575		
		160	48.77	31.6	16,200	7 348		
		170	51.82	24.3	15,700	7 122	14,700	6 668
		50	15.24	79.9	21,800	9 888	14,700	6 668
		60	18.29	76.9	19,500	8 845		
		70	21.34	73.9	17,700	8 029		
		80	24.38	70.8	16,100	7 303		
		90	27.43	67.7	14,900	6 759		
		100	30.48	64.5	13,800	6 260	14,700	6 668
70' (21.34 m)	60'	110	33.53	61.1	12,800	5 806	13,900	6 305
		120	36.58	57.6	12,000	5 443	13,000	5 897
		130	39.62	54.0	11,400	5 171	12,200	5 534
		140	42.67	50.2	10,800	4 899	11,500	5 216
		150	45.72	46.1	10,200	4 627	11,000	4 990
		160	48.77	41.7	9,800	4 445	10,500	4 763
		170	51.82	36.8	9,400	4 264	10,000	4 536
		180	54.86	31.1	9,100	4 128	9,700	4 400
		190	57.91	24.1	9,000	4 082	9,500	4 309
	70'	60	18.29	79.5	15,000	6 804	14,700	6 668
		70	21.34	76.8	12,600	5 715	13,700	6 214
		80	24.38	74.0	11,400	5 171	12,500	5 670
		90	27.43	71.2	10,500	4 763	11,400	5 171
		100	30.48	68.3	9,700	4 400	10,500	4 763



TG-1900 jib capacities

Boom Length	Jib Length	Load Radius		Boom angle	Jib offset 15°			
					2-part load hoist line		1-part load hoist line	
		Feet	meters		Pounds	kilograms	Pounds	kilograms
160' (48.77 m)	30' (9.14 m)	50	15.24	77.9	29,500	13 381	14,700	6 668
		60	18.29	74.7	29,500	13 381		
		70	21.34	71.5	29,100	13 120		
		80	24.38	68.3	26,600	12 066		
		90	27.43	64.9	24,500	11 113		
		100	30.48	61.5	22,800	10 342		
		110	33.53	57.9	21,300	9 662		
		120	36.58	54.2	20,100	9 117		
		130	39.62	50.2	19,000	8 618		
		140	42.67	46.0	18,100	8 210		
		150	45.72	41.5	17,300	7 847		
		160	48.77	36.5	16,600	7 530		
		170	51.82	30.7	16,100	7 303		
		180	54.86	23.6	15,700	7 122	14,700	6 668
		50	15.24	80.4	22,300	10 115	14,700	6 668
		60	18.29	77.6	20,000	9 072		
		70	21.34	74.7	18,100	8 210		
		80	24.38	71.8	16,600	7 530		
		90	27.43	68.8	15,300	6 940		
		100	30.48	65.8	14,200	6 441	14,700	6 668
		110	33.53	62.7	13,200	5 988	14,400	6 532
		120	36.58	59.4	12,400	5 625	13,400	6 078
		130	39.62	56.1	11,700	5 307	12,600	5 715
		140	42.67	52.5	11,100	5 035	11,900	5 398
		150	45.72	48.8	10,600	4 808	11,300	5 126
		160	48.77	44.9	10,100	4 581	10,800	4 899
		170	51.82	40.6	9,700	4 400	10,300	4 672
		180	54.86	35.8	9,400	4 264	10,000	4 536
		190	57.91	30.3	9,100	4 128	9,600	4 355
		200	60.96	23.4	8,900	4 037	9,400	4 264
		60	18.29	80.0	14,200	6 441	14,700	6 668
		70	21.34	77.4	12,800	5 806	14,100	6 396
		80	24.38	74.7	11,700	5 307	12,800	5 806
		90	27.43	72.1	10,700	4 854	11,700	5 307
		100	30.48	69.3	9,900	4 491	10,800	4 899
		110	33.53	66.5	9,200	4 173	10,000	4 536
		120	36.58	63.7	8,600	3 901	9,300	4 218
		130	39.62	60.7	8,100	3 674	8,700	3 946
		140	42.67	57.7	7,600	3 447	8,200	3 720
		150	45.72	54.5	7,200	3 266	7,700	3 493
		160	48.77	51.1	6,800	3 084	7,300	3 311
		170	51.82	47.6	6,500	2 948	7,000	3 175
		180	54.86	43.8	6,200	2 812	6,700	3 039
		190	57.91	39.7	6,000	2 722	6,400	2 903
		200	60.96	35.1	5,800	2 631	6,200	2 812
		210	64.01	29.8	5,600	2 540	6,000	2 721
		220	67.06	23.2	5,600	2 540	5,800	2 631

**TG-1900 jib capacities**

Boom Length	Jib Length	Load Radius		Boom angle	Jib offset 15°			
					2-part load hoist line		1-part load hoist line	
		Feet	meters		Degrees	Pounds	kilograms	Pounds
30' (9.14 m)	30' (9.14 m)	50	15.24	78.5	29,400	13 336	14,700	6 668
		60	18.29	75.5	29,400	13 336		
		70	21.34	72.5	29,400	13 336		
		80	24.38	69.4	27,400	12 428		
		90	27.43	66.3	25,300	11 476		
		100	30.48	63.1	23,500	10 660		
		110	33.53	59.7	22,000	9 979		
		120	36.58	56.3	20,700	9 390		
		130	39.62	52.6	19,600	8 891		
		140	42.67	48.8	18,600	8 437		
		150	45.72	44.8	17,800	8 074		
		160	48.77	40.4	17,100	7 757		
		170	51.82	35.5	16,500	7 484		
		180	54.86	29.9	16,000	7 258		
		190	57.91	22.9	15,700	7 122	14,700	6 668
170' (51.82 m)	50' (15.24 m)	60	18.29	78.2	20,400	9 253	14,700	6 668
		70	21.34	75.5	18,500	8 392		
		80	24.38	72.7	17,000	7 711		
		90	27.43	69.9	15,700	7 122		
		100	30.48	67.0	14,600	6 623		
		110	33.53	64.1	13,600	6 169	14,700	6 668
		120	36.58	61.0	12,800	5 806	13,900	6 305
		130	39.62	57.9	12,000	5 443	13,000	5 897
		140	42.67	54.6	11,400	5 171	12,300	5 579
		150	45.72	51.2	10,900	4 944	11,700	5 307
		160	48.77	47.6	10,400	4 717	11,100	5 035
		170	51.82	43.7	10,000	4 536	10,700	4 854
		180	54.86	39.5	9,600	4 355	10,200	4 627
		190	57.91	34.8	9,300	4 218	9,900	4 491
		200	60.96	29.5	9,100	4 128	9,600	4 355
		210	64.01	22.8	8,900	4 037	9,400	4 264
70' (21.34 m)	70' (21.34 m)	60	18.29	80.4	14,400	6 532	14,600	6 623
		70	21.34	77.9	13,100	5 942	14,400	6 532
		80	24.38	75.4	11,900	5 398	13,100	5 942
		90	27.43	72.9	11,000	4 990	12,000	5 443
		100	30.48	70.3	10,100	4 581	11,100	5 035
		110	33.53	67.6	9,400	4 264	10,300	4 672
		120	36.58	64.9	8,800	3 992	9,600	4 355
		130	39.62	62.1	8,300	3 765	9,000	4 082
		140	42.67	59.2	7,800	3 538	8,400	3 810
		150	45.72	56.3	7,400	3 357	8,000	3 629
		160	48.77	53.2	7,000	3 175	7,600	3 447
		170	51.82	49.9	6,700	3 039	7,200	3 266
		180	54.86	46.5	6,400	2 903	6,900	3 130
		190	57.91	42.8	6,100	2 767	6,600	2 994
		200	60.96	38.7	5,900	2 676	6,300	2 858
		210	64.01	34.3	5,700	2 586	6,100	2 767
		220	67.06	29.1	5,600	2 540	5,900	2 676
		230	70.10	22.6	5,500	2 495	5,800	2 631



TG-1900 jib capacities

Boom Length	Jib Length	Load Radius		Boom angle	Jib offset 15°			
					2-part load hoist line		1-part load hoist line	
		Feet	meters		Degrees	Pounds	kilograms	Pounds
30' (9.14 m)	30'	50	15.24	79.6	29,400	13 336	14,700	6 668
		60	18.29	76.9	29,400	13 336		
		70	21.34	74.2	29,400	13 336		
		80	24.38	71.4	28,900	13 109		
		90	27.43	68.6	26,800	12 156		
		100	30.48	65.7	24,900	11 294		
		110	33.53	62.8	23,400	10 614		
		120	36.58	59.7	22,000	9 979		
		130	39.62	56.6	20,800	9 435		
		140	42.67	53.4	19,800	8 981		
		150	45.72	49.9	18,900	8 573		
		160	48.77	46.3	18,100	8 210		
		170	51.82	42.5	17,400	7 893		
		180	54.86	38.3	16,800	7 620		
		190	57.91	33.7	16,300	7 394		
		200	60.96	28.3	14,800	6 713		
		210	64.01	21.8	11,500	5 216	14,700	6 668
190' (57.91 m)	50'	60	18.29	79.2	21,100	9 571	14,600	6 623
		70	21.34	76.7	19,300	8 754		
		80	24.38	74.2	17,700	8 029		
		90	27.43	71.7	16,400	7 438		
		100	30.48	69.1	15,300	6 940		
		110	33.53	66.4	14,300	6 486		
		120	36.58	63.7	13,500	6 124	14,600	6 623
		130	39.62	60.9	12,700	5 761	13,800	6 260
		140	42.67	58.1	12,000	5 443	13,100	5 942
		150	45.72	55.1	11,500	5 216	12,400	5 625
		160	48.77	52.0	10,900	4 944	11,800	5 352
		170	51.82	48.8	10,500	4 763	11,300	5 126
		180	54.86	45.3	10,100	4 581	10,800	4 899
		190	57.91	41.6	9,700	4 400	10,400	4 717
		200	60.96	37.6	9,400	4 264	10,100	4 581
		210	64.01	33.2	9,200	4 173	9,800	4 445
		220	67.06	28.0	9,000	4 082	9,500	4 309
		230	70.10	21.7	8,900	4 037	9,400	4 264
70' (21.34 m)	70'	70	21.34	78.9	13,500	6 124	14,600	6 623
		80	24.38	76.6	12,400	5 625	13,600	6 169
		90	27.43	74.3	11,400	5 171	12,500	5 670
		100	30.48	71.9	10,600	4 808	11,600	5 262
		110	33.53	69.5	9,900	4 491	10,800	4 899
		120	36.58	67.0	9,200	4 173	10,100	4 581
		130	39.62	64.5	8,700	3 946	9,500	4 309
		140	42.67	61.9	8,200	3 720	8,900	4 037
		150	45.72	59.3	7,800	3 538	8,400	3 810
		160	48.77	56.6	7,400	3 357	8,000	3 629
		170	51.82	53.7	7,000	3 175	7,600	3 447
		180	54.86	50.8	6,700	3 039	7,300	3 311
		190	57.91	47.7	6,400	2 903	7,000	3 175
		200	60.96	44.4	6,200	2 812	6,700	3 039
		210	64.01	40.9	6,000	2 722	6,400	2 903
		220	67.06	37.0	5,800	2 631	6,200	2 812
		230	70.10	32.7	5,700	2 586	6,000	2 721
		240	73.15	27.8	5,600	2 540	5,900	2 676
		250	76.20	21.6	5,500	2 495	5,800	2 631

**TG-1900 jib capacities**

Boom Length	Jib Length	Load Radius		Boom angle	Jib offset 15°			
					2-part load hoist line		1-part load hoist line	
Feet	meters	Degrees	Pounds	kilograms	Pounds	kilograms		
30' (9.14 m)	50	15.24	80.0	29,300	13 290	14,600	6 623	
	60	18.29	77.5					
	70	21.34	74.9					
	80	24.38	72.2	29,300	13 290			
	90	27.43	69.6	27,400	12 429			
	100	30.48	66.9	25,600	11 612			
	110	33.53	64.1	24,000	10 886			
	120	36.58	61.2	22,600	10 251			
	130	39.62	58.3	21,400	9 707			
	140	42.67	55.2	20,300	9 208			
	150	45.72	52.1	19,400	8 800			
	160	48.77	48.7	18,600	8 437			
	170	51.82	45.2	17,800	8 074			
	180	54.86	41.5	17,200	7 802			
	190	57.91	37.4	16,700	7 575			
	200	60.96	32.9	14,400	6 532	14,600	6 623	
	210	64.01	27.7	11,700	5 307	12,900	5 851	
	220	67.06	21.2	8,700	3 946	9,600	4 355	
200' (60.96 m)	60	18.29	79.6	21,500	9 752	14,600	6 623	
	70	21.34	77.3	19,600	8 891			
	80	24.38	74.9	18,100	8 210			
	90	27.43	72.4	16,800	7 620			
	100	30.48	70.0	15,600	7 076			
	110	33.53	67.4	14,600	6 623			
	120	36.58	64.9	13,800	6 260	14,600	6 623	
	130	39.62	62.2	13,000	5 897	14,200	6 441	
	140	42.67	59.5	12,300	5 579	13,400	6 078	
	150	45.72	56.7	11,700	5 307	12,700	5 761	
	160	48.77	53.8	11,200	5 080	12,100	5 489	
	170	51.82	50.8	10,700	4 854	11,600	5 262	
	180	54.86	47.7	10,300	4 672	11,100	5 035	
	190	57.91	44.3	10,000	4 536	10,700	4 854	
	200	60.96	40.7	9,600	4 355	10,300	4 672	
	210	64.01	36.8	9,400	4 264	10,000	4 536	
	220	67.06	32.4	9,100	4 128	9,700	4 400	
	230	70.10	27.4	9,000	4 082	9,500	4 309	
	240	73.15	21.1	7,300	3 311	8,000	3 629	
70' (21.34 m)	70	21.34	79.3	13,700	6 214	14,600	6 623	
	80	24.38	77.1	12,600	5 715	13,900	6 305	
	90	27.43	74.9	11,600	5 262	12,800	5 806	
	100	30.48	72.6	10,800	4 899	11,800	5 352	
	110	33.53	70.3	10,100	4 581	11,000	4 990	
	120	36.58	68.0	9,400	4 264	10,300	4 672	
	130	39.62	65.6	8,900	4 037	9,700	4 400	
	140	42.67	63.1	8,400	3 810	9,100	4 128	
	150	45.72	60.6	7,900	3 583	8,600	3 901	
	160	48.77	58.0	7,600	3 447	8,200	3 720	
	170	51.82	55.4	7,200	3 266	7,800	3 538	
	180	54.86	52.6	6,900	3 130	7,500	3 402	
	190	57.91	49.7	6,600	2 994	7,100	3 221	
	200	60.96	46.7	6,300	2 858	6,900	3 130	
	210	64.01	43.4	6,100	2 767	6,600	2 994	
	220	67.06	40.0	5,900	2 676	6,400	2 903	
	230	70.10	36.2	5,800	2 631	6,200	2 812	
	240	73.15	32.0	5,600	2 540	6,000	2 722	
	250	76.20	27.2	5,500	2 495	5,900	2 676	
	260	79.25	21.1	5,500	2 495	5,800	2 631	

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TG-1900 jib capacities

Notes – jib capacities

1. Loads shown are maximum permissible and in all cases are limited by strength capabilities of the machine. Proper design of the substructure to withstand the loadings imposed by the machine shall be the responsibility of the purchaser. A deduction must be made from these capacities for the weight of the load handling equipment such as the hook block, hook, slings, grapple, load weighing devices, etc.

2. The operator must make the following considerations when operating the crane:

a. Make certain the actual load radius is not greater than the radius specified on the capacity chart for the load to be lifted. The load radius is measured from the center of gravity of the freely suspended load. The operator must make allowances for increases in the load radius caused by stretching of the boom suspension and deflection of the boom and tower.

b. Prevent shock or impact loading of the crane's structure especially when operating during low temperatures.

c. Effect of wind, especially on loads with large surface areas.

3. Do not lift a load with the main hoist and a load with the auxiliary hoist at the same time.

4. For each 10 feet boom foot height above the lowest hook position, the following deductions must be made from these capacities:

30 lbs. (13.61 kg) when using 2 parts of auxiliary hoist line

20 lbs. (9.07 m) when using 1 part of auxiliary hoist line

5. If the 30" (.076 m) x 36" (.091 m) jib is attached to the boom, the following deductions must be made from the main hoist lifting capacities:

Jib Length	Deduction
30' (9.14 m)	---
50' (15.24 m)	2500 lbs. (1 134 kg)
70' (21.34 m)	4000 lbs. (1 814 kg)

6. These capacities are based on a 30 mph (48 km/h) wind in the operating condition. Consult the manufacturer for operating limitations when winds exceed 30 mph (48 km/h).

7. For the non-operating condition, the machine, reeving, and hook blocks must clear any obstacles with the boom stowed at its specified position. This precaution is necessary due to the weathervane rotation of the crane by the wind.

8. These capacities apply only to the machine as originally manufactured and normally equipped by FMC Corporation, Cable Crane and Excavator Division.

Tower Mounted With Climbing Frame

1. The maximum free standing tower height with a climbing frame and 170' (51.82 m) boom is 162' 7½" (49.56 m). For tower heights greater than 162' 7½" (49.56 m), consult manufacturer for additional requirements for the crane.

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2. When the crane is in the non-operating condition, the boom must be stowed as listed in the following chart based on tower height:

Tower Height	Boom Position
80'-160' (24.38-48.77 m)	Stow boom at maximum rated radius.
170' (51.80 m)	Stow boom at horizontal position.

Tower Mounted Without Climbing Frame

1. The maximum free standing tower height without a climbing frame and with 200' (60.96 m) boom is 162' 7½" (49.56 m), consult manufacturer for additional requirements for the crane.

2. When the crane is in the non-operating condition, the boom must be stowed as listed in the following chart based on tower height:

Tower Height	Boom Position
80'-160' (24.38-48.77 m)	Stow boom between a 60° boom angle and maximum rated radius.
170'-190' (51.82-57.91 m)	Stow boom at maximum rated radius.
200' (60.96 m)	Stow boom at horizontal position.

Rail Mounted With Traveling Base

1. Lifting capacities shown are not more than 66% of the tipping loads calculated under static conditions with the boom in the least stable direction. The operator must take into account the dynamic effects of hoisting, lowering, booming, swinging, and traveling. Additional factors to be considered are freely suspended loads, track, wind, ground conditions, boom length, and proper operating speeds for the existing conditions.

2. The operator must make certain the actual load radius is not greater than the radius specified on the capacity chart for the load to be lifted. The load radius is measured from the center of the traveling base to the center of gravity of the freely suspended load. The operator must make allowances for increases in the load radius caused by stretching of the boom suspension, and deflection of the boom and traveling base.

3. For these lifting capacities, the operator must make certain that all specified ballast is properly assembled to the traveling base. Ballast may be necessary to meet the stability requirement as specified on the working areas and ballast requirement plate.

4. Use caution when approaching the rail stops with the crane bumpers. Excessive speed at contact may result in crane instability and/or failure of the rail stops.

5. When the crane is in the non-operating condition, the rail mounted traveling base must be secured with rail clamps or tie downs to prevent drifting.

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TG-1900 lifting crane notes for crane mounted on a 9'9" x 9'9" (2.97 x 2.97 m) tower with or without climbing frame, pedestal, or on a bogie or gantry.

General notes:

1. Loads shown are in pounds and in all cases are limited by strength capabilities of the machine.

Proper design of the substructure to withstand the loadings imposed by the machine shall be the responsibility of the purchaser. A deduction must be made from these capacities for weight of load handling equipment such as hook block, hook, sling, grapple, load weighing devices, etc.

2. The operator must make the following considerations when operating the crane:

a. Make certain the actual load operating radius is the same as the radius specified on the capacity chart. The load radius is measured from the center of the tower base section to the center of gravity of the freely suspended load. The user must make allowances for increases in the load radius caused by stretching of the boom suspension and deflection of the boom and tower.

b. Prevent shock or impact loading of the crane's structure especially when operating during low temperatures.

c. Effect of wind on loads with large surface areas.

3. Do not lift a load with a single part of main hoist line at boom angles greater than 84.0°.

4. Do not lift a load on the 10' (3.05 m) boom tip extension when the main hook is in use.

5. For each 10 feet (3.05 m) of boom foot height above the lowest hook position, the following deductions must be made from these lifting capacities:

192# (87 kg) when using 4 parts of main hoist line

144# (65 kg) when using 3 parts of main hoist line

96# (44 kg) when using 2 parts of main hoist line

48# (22 kg) when using 1 part of main hoist line

6. If the 10' (3.05 m) boom tip extension is not attached to the boom, 2,400 pounds (1 089 kg) may be added to the main hoist lifting capacities but must not exceed the maximum rated capacity for the number of parts of line being used.

7. The boom hanger block is not required when using one part or two parts of main

hoist line. If the hanger block is removed when using one part or two parts of main hoist line, 1,800 pounds (816 kg) may be added to these main hoist capacities but must not exceed the maximum rated capacity for the number of parts of line being used.

8. These capacities are based on a 30 m.p.h. (48.27 km/h) wind in the operating condition, and a hook load reduction must be made when winds exceed 30 m.p.h. (48.27 km/h).

9. If the machine is swung 360° in the nonoperating condition, the machine, reaving, and hook blocks must clear any obstacles with the boom stowed at its specified position. This precaution is necessary due to the weathervane rotation of the crane by the wind.

10. These capacities apply only to the machine as originally manufactured and normally equipped by FMC Corporation, Cable Crane and Excavator Division.

Tower mounted with climbing frame

Notes:

1. The maximum free standing tower height with a climbing frame is 162' 7½" (49.57 m) for boom lengths 80' (24.38 m) through 170' (51.82 m). For boom lengths greater than 170' (51.82 m) and for tower heights greater than 162' 7½" (49.57 m), consult manufacturer for additional requirements for the crane.

2. When the crane is in the non-operating condition, the boom must be stowed to conform to one of the following conditions:

Boom length	Condition
80' – 160'	Stow boom at (24.38 – 48.77 m) maximum rated radius.
170' – 190'	Stow boom at (51.82 – 57.91 m) maximum rated radius

Tower mounted without climbing frame

Notes:

1. The maximum free standing tower height without a climbing frame is 162' 7½" (49.57 m) for boom lengths 80' (24.38 m) through 200' (60.96 m). For tower heights greater than 162' 7½" (49.57 m), consult manufacturer for additional requirements for the crane.

2. When the crane is in the non-operating condition, the boom must be stowed to conform to one of the following conditions:

Boom length	Condition
80' – 160'	Stow boom between a 60° boom angle and maximum rated radius
170'	Stow boom at maximum rated radius
200'	Stow boom at horizontal position

Pedestal, bogie, or gantry mounted

Notes:

1. Lifting capacities shown are not more than 66% of the tipping loads calculated under static conditions with the boom in the least stable direction. The user must take into account the dynamic effects of hoisting, lowering, booming, swinging, and traveling. Additional factors to be considered are freely suspended loads, track, wind or ground conditions, boom length, and proper operating speeds for the existing conditions.

2. The operator must make certain the actual load operating radius is the same as the radius specified on the capacity chart. The load radius is measured from the center of gravity of the freely suspended load. The user must make allowances for increases in the load radius caused by stretching of boom suspension and deflection of the boom and traveling base.

3. For these lifting capacities, the user must make certain that all specified ballast is properly assembled to the traveling base. Ballast may be necessary to meet stability requirement as specified on working areas and ballast requirement plate.

4. Use caution when approaching rail stops with crane bumpers. Excessive rate of contact can result in crane's instability and/or failure of rail stops.

5. When the crane is in the non-operating condition, the rail mounted traveling base must be secured with the rail clamps or tie downs to prevent drifting.