

attice Boom Crawler Mounted Crane



### Superstructure specifications

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Boom 68A	General purpose, optimized for straight boom or boom and fixed jib operations, consisting of basic 50 ft. (15.2m) boom (25 ft. [7.6m] base, 25 ft. [7.6m] point). Open throat point section is equipped with six sheaves mounted on heavy duty roller bearings, offset for improved throat clearance, 22 in.	Load Moment & Anti-Two Block System	Standard load moment and anti-two block system with audio-visual warning and control lever lockout. These systems provide electronic display of boom angle, length, radius, tip height, relative load moment, maximum permissible load, load indication and warning of impending two-block conditions.
	(559mm) pitch diameter. Boom extension are -10 ft. (3m), 20 ft. (6.1m) and 40 ft. (12.2m) in length. Maximum boom length is 280 ft. (85.3m). Overall boom cross section dimensions are 68 in. (1727mm) deep by 76 in. (1930mm) wide. May be fitted with 32A fixed jib.	Cab	Full vision, steel fabricated with acoustical lining and tinted safety glass throughout. Sliding left side door, sliding right side window for ventilation. Hinged skylight with electric wiper. Full engine instrumentation with fuel gauge and audio/visual warning system for all important machine functions.
Boom 76A	More versatile, larger and heavier than 68A boom, may be fitted with 32A fixed jib or 46A luffing jib assembly. 76A basic 50 ft. (15.2m) boom consists of		Fabric seat with short stroke levers at arm rest positions. Seat tilts back 10 degrees for increased high boom angle visibility.
	two piece 25 ft. (7.6m) base and 25 ft. (7.6m) point section. Boom point section is equipped with six sheaves mounted on heavy duty roller bearings, offset for improved throat clearance, 22 in. (559mm) pitch	Engine	Caterpillar 3406 B, in-line 6 cylinder, 4 cycle, turbocharged, 893 cu. in. (14.6 liter), 310 HP (231 kw) @ 2100 RPM, 287 HP (214 kw) (SAE NET) @ 2100 RPM.
	diameter. Maximum boom length is 250 ft. (76.2m). Boom extensions are 10 ft. (3m), 20 ft. (6.1m) and 40 ft. (12.2m) in length. Overall boom cross section is 76 in. (1930mm) deep by 89 in. (2261mm) wide.	Optional Engine	Detroit Diesel 6V-92TA, V-6, 2 cycle, turbocharged and after cooled, 552 cu. in. (9.0 liter), 345 HP (257 kw) @ 2100 RPM, 330 HP (246 kw) (SAE NET) @ 2100 RPM.
	Wind speed monitor with audible warning.	Fuel Tank	85 gallons (322 L)
Mast Assembly	27 ft. (8.2m) Live Mast equipped with 23 in.	Capacity	
32A Fixed Jib	(584mm) pitch diameter roller bearing sheaves.  Can be used as auxiliary lifting boom with standard component handling equipment, for self erection of machine counterweights, boom componentry and crawler assemblies.  Maximum length is 90 ft. (27.4m) variable in	Swing	Ball bearing swing circle with 360° continuous rotation. Planetary glide swing with static holding multi-disc wet brake actuated with brake hold button on control lever and/or switch operated parking brake. Rotation is stopped by back plugging swing controller. Plunger type, 2 position, mechanical
	20 ft. (6.1m) increments to basic 30 ft. (9.1m) length consisting of 15 ft. (4.6m) base and 15 ft. (4.6m) point section. This jib may be mounted on the 68A boom and the 76A boom utilizing an adaptor assembly. Jib overall cross section is 32 in. (813mm) deep by 38 in. (965mm) wide.	Counterweights	house lock. Maximum speed: 2.5 rpm.  Three piece totaling 95,000 lbs. (43,092 kg).  Counterweight "A" equals 17,500 lbs. (7,938 kg), counterweight "B" equals 36,000 lbs. (16,330 kg) and counterweight "C" equals 41,500 lbs.  (18,825 kg). Counterweights hook on for quick and
46A Luffing Jib	Four piece 80 ft. (24.4m) basic jib consisting of	<del></del>	easy handling.
(For 76A Boom Only)	20 ft. (6.1m) base, two 20 ft. (6.1m) jib extensions and 20 ft. (6.1m) tip section. Maximum jib length is 160 ft. (48.8m). Cross section dimensions are 46 in. (1168mm) deep and 59 in. (1499mm) wide. Includes electronic wind speed indication.		
<b>Boom Hoist System</b>	Hydraulic driven dual drum with standard ratchets		
	and pawls, enclosed multi-disc wet brake spring set hydraulically released. Drums utilize 1 in. (25.4mm) wire rope and have a pitch diameter of 23 in.		

(584mm). 10 part reeving standard, optional 12 part

reeving necessary for 46A luffing jib operation.

Gantry and mast utilize 23 in. (584mm) pitch

diameter sheaves with anti-friction bearings.

Automatic boom hoist kickout at 81 degrees.

### Superstructure specifications (continued)

Pumps	Six main pumps, one for each function: front hoist, rear		
_	hoist, boom hoist, swing, left hand propel and right hand		
	propel. All main pumps are variable displacement axial		
	piston type. Pumps driven by common gearbox with		
	disconnect clutch.		
Controls	Short stroke low pressure hydraulic controllers stroke		
	pumps to determine direction and speed of each		
	function.		
Filtration	100% 7 micron filtration of charge and control		
	pressure circuits.		
Reservoir	75 gallon (284 liter) capacity with internal diffusers and		
	magnets. Electric fill pump with spin-on filter cartridge		
	provided.		
Oil Cooler	Remote mounted with thermostatically controlled		
	hydraulic motor powered fan. High oil temperature		
	warning light provided in operator's cab.		
HOIST SPECIFICAT	IONS		
	Power up and down 2 speed operation standard with		
	ratchet and pawl. Automatic hoist brake feature with		
	free fall to 10,000 lbs. (4,535 kg) capacity on foot		
	operated caliper brake pedals. Electronic hoist drum		
	rotation indicators.		
MAKE/MODEL	Front and Rear Hoists		
	Grove H060-29		
<b>Drum Dimensions</b>	21 in. (533mm) diameter		
	29 in. (737mm) length		
	35 in. (889mm) flange diameter		



### Line Pull and Line Speed Combinations (4th Layer)

Based on Maximum Permissible Single Line Pull of 29,500 lbs. (13,381 kg) for 1 in. (25.4mm) Diameter Wire Rope - Main Hoist Drums only.

Low Sp	eed Mode			
ELine Pull		Speed		
Kilograms	FPM	m/min.		
13,381	185	56.4		
11,340	220	67.1		
9,072	240	73.1		
6,804	250	76.2		
4,536	255	77.7		
2,268	260	79.2		
454	260	79.2		
	E Line Pull Kilograms 13,381 11,340 9,072 6,804 4,536 2,268	Kilograms       FPM         13,381       185         11,340       220         9,072       240         6,804       250         4,536       255         2,268       260		

Single Line Pull		Speed	
Pounds	Kilograms	FPM	m/min.
15,000	6,804	320	97.5
12,500	5,670	390	118.9
10,000	4,536	455	138.7
7,500	3,402	485	147.8
5,000	2,268	500	152.4
2,500	1,134	515	157.0
1,000	454	520	158.5

**High Speed Mode** 

# Maximum Permissible Line Pull Based On

Line Pull Based On	
	1 in dia. (25.4mm) 6x25 w/3.5:1 F.O.S.
	29,500 lbs. (13,381 kg)
	1 in. dia. (25.4mm) 18x19 w/5:1 F.O.S.
	22,760 lbs. (10,324 kg)
	25mm dia. (0.984 in.)
	34x7 w/5:1 F.O.S.
	12325 kg. (27170 lbs.)
Rope Stowage	Usable - 1,190 ft. (363m)
	Stowable - 1,440 ft. (439m)
Third Hoist	Luffing jib hoist, power up and down, 2 s
	standard with retabet and newl analoged

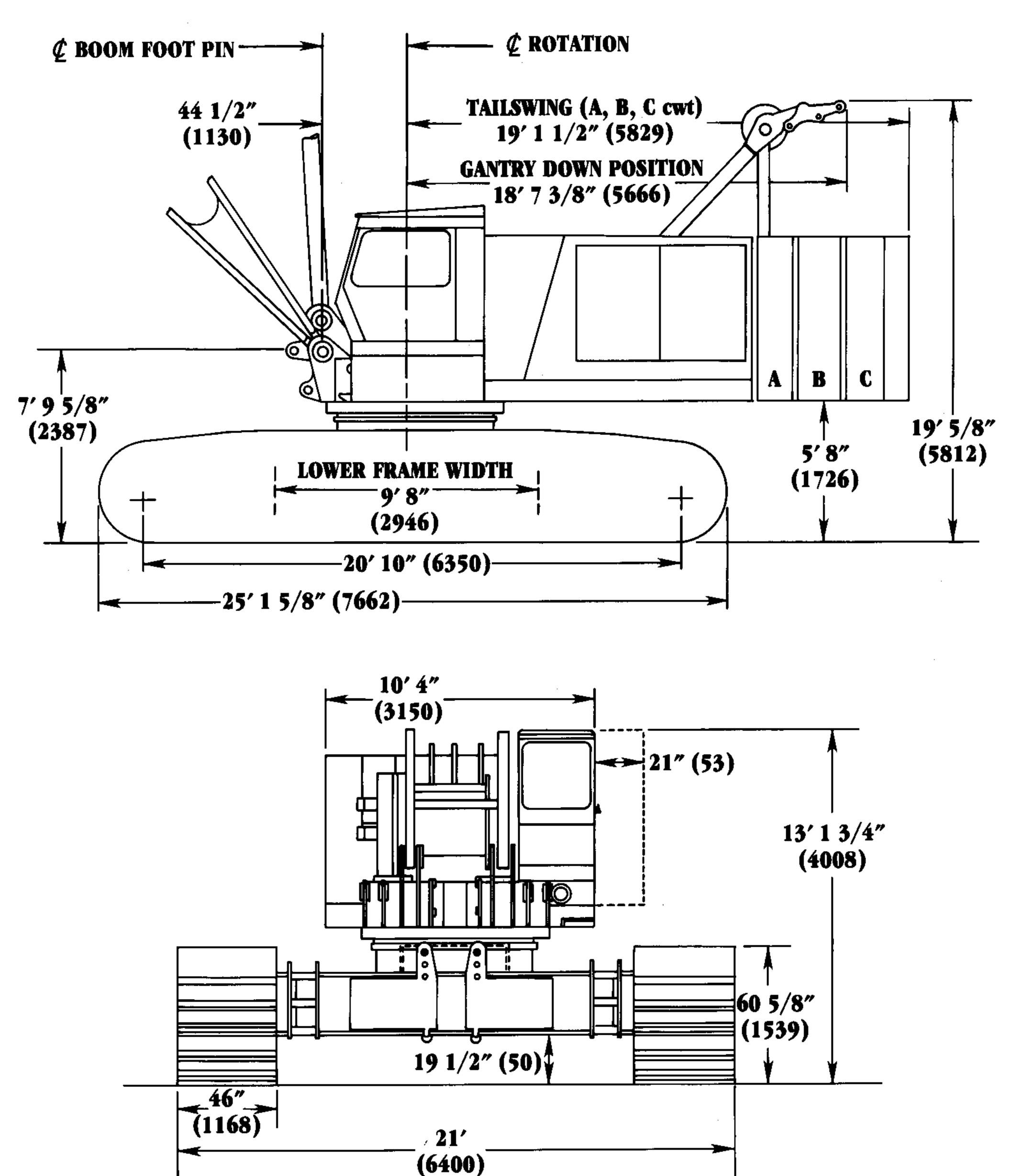
Luffing jib hoist, power up and down, 2 speed operation standard with ratchet and pawl, enclosed multi-disc wet brake, spring set hydraulically released. Drum utilizes 3/4 in. (19mm) dia. wire rope. Stowable capacity - 790 ft. (241m). Recommended length - 680 ft. (207m), required for luffing jib.

# Crawler specifications

surface for turntable bearing mounting. Equipped with Grove hydraulic swivel for propel circuit hydraulic power transmission.  Standard equipment permits upperstructure with lower frame to be jacked up 46 in. (1168mm) off ground facilitating self-loading. Jacks also provide adequate stability for machine to offload and install crawler side frame assemblies and counterweights enabling machine to erect itself without auxiliary cranes.  Crawler Side Frames Fabricated from high strength alloy steel with integral quick attach pin and wedge system for quick, crawler removal/installation.  Crawler Drive System  Independent hydraulic drive for each track. Each crawler is powered by its own variable displacement pump through a closed loop hydraulic system to a torque sensitive piston motor. The piston motor provides torque to the crawler planetary drive gear box through a spring set/hydraulically released multiple disc wet brake. The track drive sprocket is powered directly by the gear box output shaft. Speeds are infinitely variable from 0 to 1.5 mph (2.4 kph).  Drive Sprocket And Idler  Lower Track Rollers  Track Chain  Crawler tractor type, Self-cleaning, designed for low maintenance and long life.  Single flange lifetime lubricated, 13 per side frame.  Crawler tractor type, tensioned and adjusted by grease cylinder.  Track Pads  Track Pads  Track Two 18,000 lbs. (8,165 kg) "T" counterweights	Lower Frame	Fabricated from high strength alloy steel with machined
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crawler is powered by its own variable displacement pump through a closed loop hydraulic system to a torque sensitive piston motor. The piston motor provides torque to the crawler planetary drive gear box through a spring set/hydraulically released multiple disc wet brake. The track drive sprocket is powered directly by the gear box output shaft. Speeds are infinitely variable from 0 to 1.5 mph (2.4 kph).  Drive Sprocket And Idler  Crawler tractor type. Self-cleaning, designed for low maintenance and long life.  Single flange lifetime lubricated, 13 per side frame.  Rollers  Track Chain  Crawler tractor type, tensioned and adjusted by grease cylinder.  46 in. (1168mm) wide high strength cast steel pads standard.  Track  Two 18,000 lbs. (8,165 kg) "T" counterweights utilized for additional machine stability. One counterweight attaches quickly to each track frame		removal/installation.
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counterweight attaches quickly to each track frame	Track	
	Counterweights	
assembly with a quick pin latch design.		
		assembly with a quick pin latch design.

# Component Weights

	·	· · · · · · · · · · · · · · · · · · ·
	Pounds	Kgs
Complete operational crane with 50 ft. (15.2m)		10000
1	293,690	133,216
Complete crane same as above except 50 ft. (15.2m)	200 200	126 160
	300,200	136,169
Upperstructure with DDA Engine	40,028 $800$	18,156
Add for Cat engine Mast and boom hoist bridle (10 part)	3,830	1,737
Boom stop	732	332
Hoist rope front drum (1,000 ft. [304.9m])	1,850	839
Hoist rope rear drum (700 ft. [213.4m])	1,295	587
Boom hoist rope 550 ft. (167.6m)	1,100	499
Upper Sub Total	49,635	22,514
0 1 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	24145	10.052
Crawler base with swivel and jacking system	24,145	10,952 1,501
Swing bearing with bolts TOTAL	3,310 77,090	34,967
SIDE FRAME ASSEMBLY	7.7,000	J 1, 70 /
One side frame with 46 in. (1168mm) track shoes	39,050	17,713
"T" lower counterweight removable	07,070	-
(2 @ 18,000 lbs. [8,165 kg] each)	36,000	16,329
UPPER COUNTERWEIGHT		
"C" Counterweight	41,500	18,824
"B" Counterweight	36,000	16,329
"A" Counterweight	17,500	7,938
68A Boom with pins & pendants	2 10/	1,444
25' (7.6m) boom base 25' (7.6m) boom point	3,184 4,126	1,872
Mast component handling equipment	190	86
Basic 68A boom total	7,500	3,402
10' (3.0m) boom extension	1,060	481
20' (6.1m) boom extension	1,730	785
40' (12.2m) boom	3,063	1,389
15' (4.6m) jib base, strut, and backstay	2,000	907
20' (6.1m) jib extension	705	320 450
15' (4.6m) jib point	1,013	459
76A Boom with pins & pendants 15' (4.6m) boom base (w/o boom foot pins, w/LMI equip.)	4,340	1,969
10' (3.0m) base extension	1,790	812
25' (7.6m) boom point	6,610	2,998
Add for 12 pt. bridle (w/660' [201.2m] boom hoist rope)	412	187
Mast component handling equipment	190	86
Boom base comp. handling dev.	670	304
Basic 76A boom total	14,012	6,356
10' (3.0m) boom extension	1,362	618 1,040
20' (6.1m) boom extension 40' (12.2m) boom extension	2,293 3,826	1,735
46A Luffing Jib Components with pins & pendants	J,020	<u> </u>
20' (6.1m) jib base (with latches)	1,715	778
20' (6.1m) extension	1,135	515
40' (12.2m) extension	1,960	889
20' (6.1m) jib point w/roller	2,070	939
Rear strut	3,065	1,390 767
Front strut (w/LMI)	1,690 450	204
Control arm Control link	230	104
Jib bridle	430	195
Jib bail	450	204
Rear strut stop	325	147
Front strut stop	110	50
Jib backstop strut	210	95
Miscellaneous Component Weights	2.005	1 200
3rd hoist assembly with 680' (207m) rope	3,085	1,399
Hook Block Assembly:	3,600	1 626
6 sheave, 150 ton (136 MT) 3 sheave, 90 ton (82 MT)	2,800	1,636 1,273
1 sheave, 30 ton (27 MT)	1,200	1,273 544
Hook and ball (non-swivel) assembly	1,200	$5\overline{44}$
Hook and ball (swivel) assembly	1,250	544 568
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Constant in provenient and en thee non-proceed material ordiness and had concerned by a restriction spectication to, riprient and practicular resortion, notice. If shation shows that it calls options equipment and accessories and may not include all standard equipment.

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