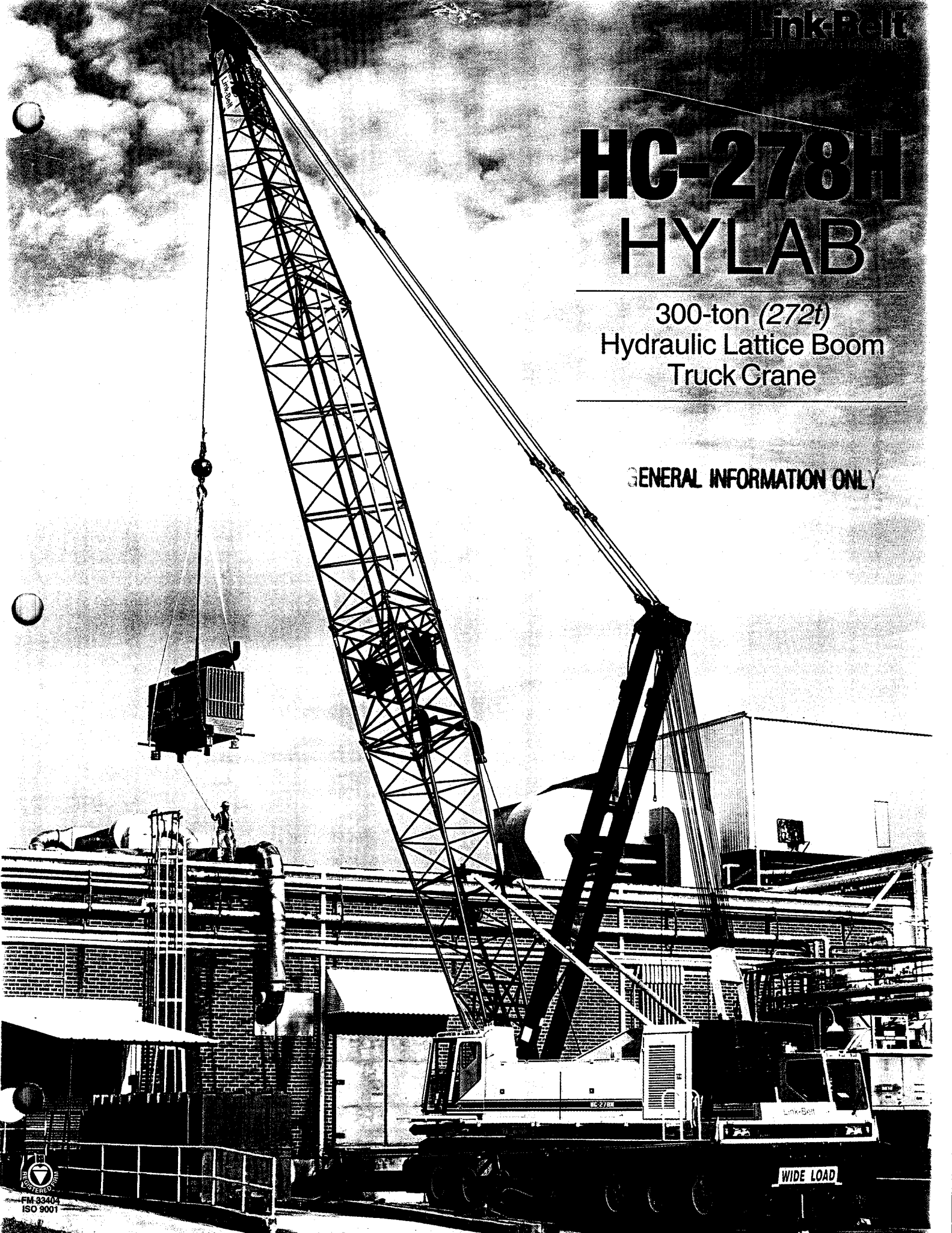


Link-Belt

HC-278H HYLAB

300-ton (272t)
Hydraulic Lattice Boom
Truck Crane

GENERAL INFORMATION ONLY



FM 33404
ISO 9001

Unmatched Large Crane Transportability and Proven Lattice Boom Technology.

The **HC-278H HYLAB** lift crane features unmatched load control, capacities, and transportability. This Hydraulic Lattice Boom (HYLAB) truck crane also features pilot operated hydraulic controls that have been setting industry standards for over 50 years. The basic HYLAB hydraulic system has been proven in over 2,000 cranes currently working worldwide assuring the user of unprecedented reliability.

Transportability The new HC-278H hydraulic lattice boom truck crane provides a practical solution to customers that need to move a very large truck crane, quickly, legally and efficiently. This truck crane was designed by Link-Belt for fast unassisted stripdown and assembly.

Transporting this crane starts by removing major components including boom and counterweight ... all done by using the crane's standard live mast or optional 10' (3.05 m) boom extension with lifting sheaves.

Next, the standard lift-off system is put into action.

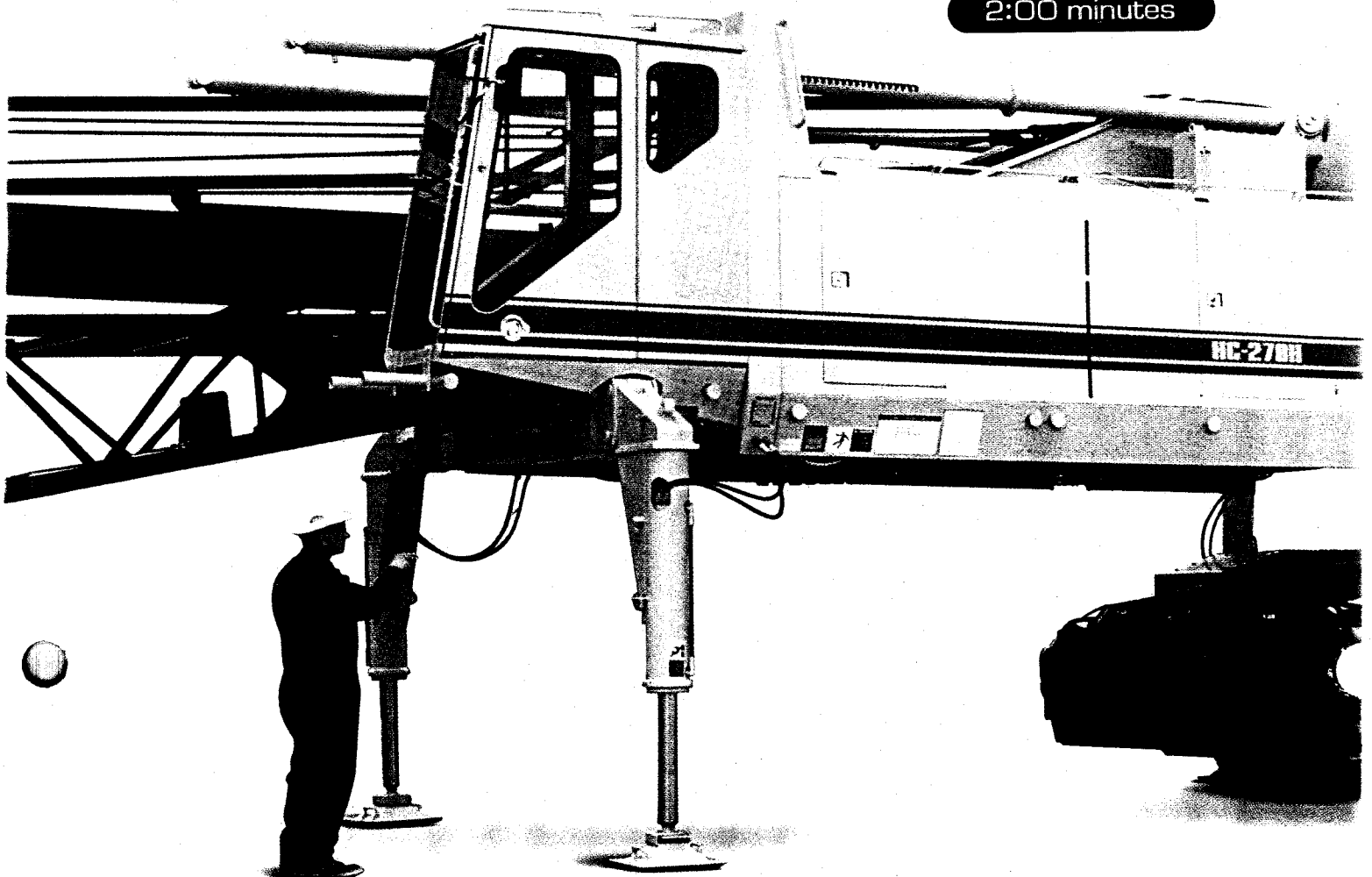
① The four self-contained hydraulic lift-off jacks are swung into the working position.

4:00 minutes



② The patented hydraulic actuated quick disconnect turntable bearing is released. The ingenious **adaptor with snap ring** allows for fast undecking or decking the upper-structure from the carrier in minutes ... not hours.

2:00 minutes

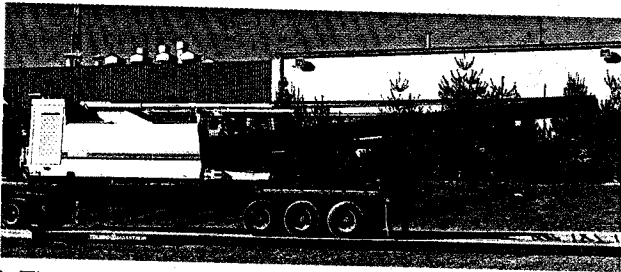


portability... with Dependable Hydraulic



③ The lift-off jacks are fully extended, raising the upper up and clear of the carrier.

3:00 minutes



④ The carrier is driven away and a flatbed trailer is backed under the upper. The upper is lowered to the trailer and the lift-off jacks returned to the stored position.

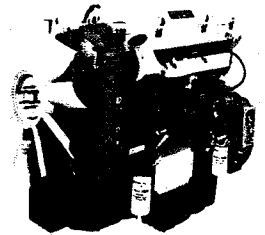
5:00 minutes

Carrier A deep channel, triple box carrier design provides the optimum strength essential to maximize lift capacity while yielding lightweight axle loadings necessary to meet strict highway regulations. This 12x6 Link-Belt designed and built carrier also features twelve wheel air brakes, bogie beam axle suspension, full time hydraulic power steering, and standard aluminum fenders.

The new HC-278H features a 430 horsepower (321 kW)

Detroit Diesel Series 60 engine.

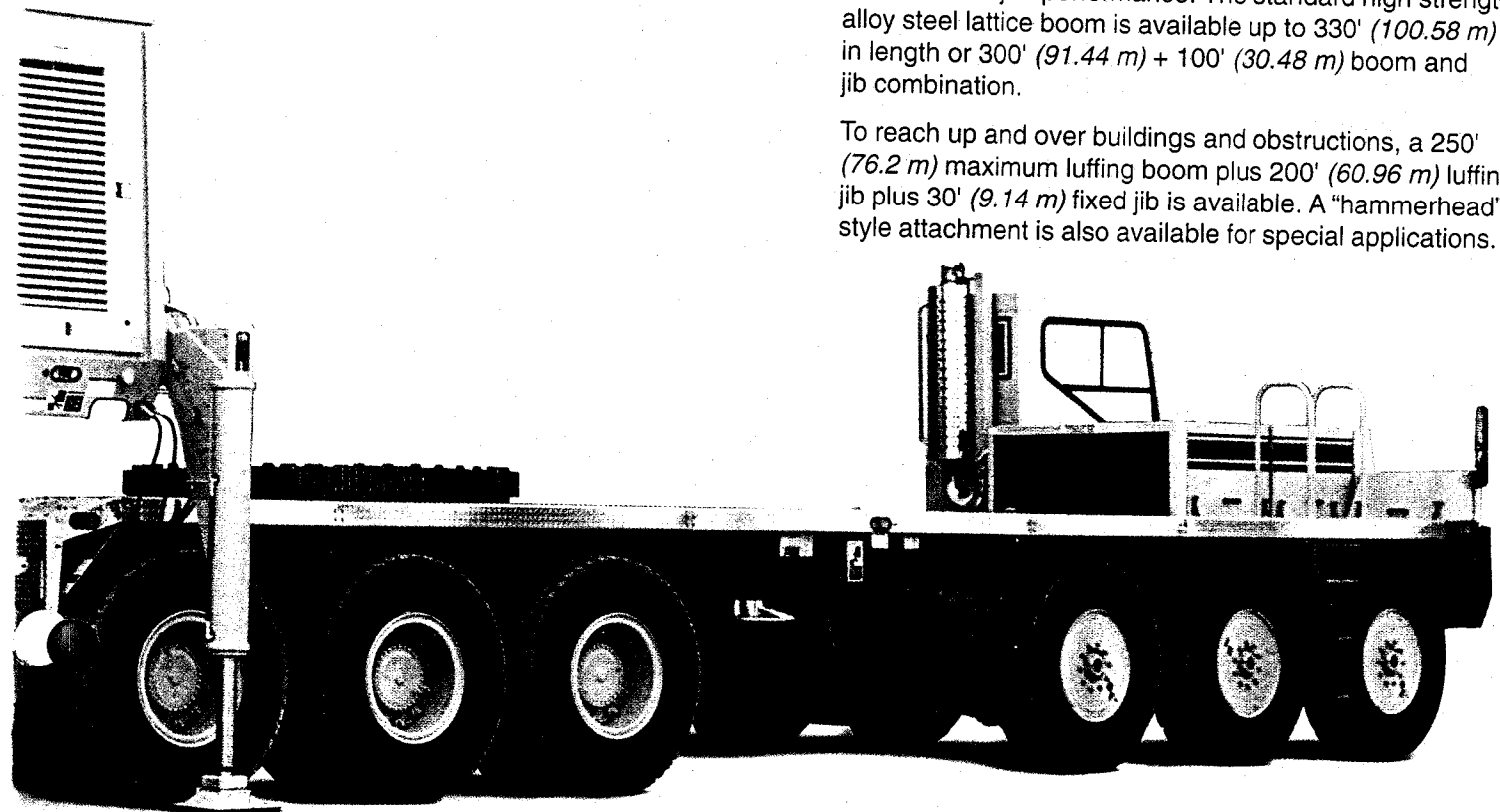
This in-line 6-cylinder features Detroit Diesel Electronic Controls (DDEC) which incorporate multiple torque curves and variable speed idling for a low creep speed of .3 mph (0.5 km/h) and highway speeds of up to 58.5 mph (94.2 km/h), electronic throttle control for instantaneous response, and cruise control which reduces driver fatigue.



And for the ultimate in comfort and smoothness in drivability, a CEEMAT 9-speed fully automatic transmission is available.

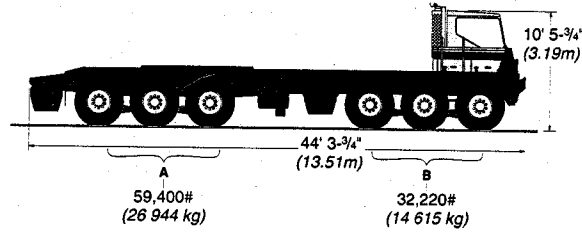
Attachment Link-Belt lattice tubular booms represent the latest advance in crane boom design. The HC-278H provides the longest reach in the mobile crane business for increased job performance. The standard high strength, alloy steel lattice boom is available up to 330' (100.58 m) in length or 300' (91.44 m) + 100' (30.48 m) boom and jib combination.

To reach up and over buildings and obstructions, a 250' (76.2 m) maximum luffing boom plus 200' (60.96 m) luffing jib plus 30' (9.14 m) fixed jib is available. A "hammerhead" style attachment is also available for special applications.



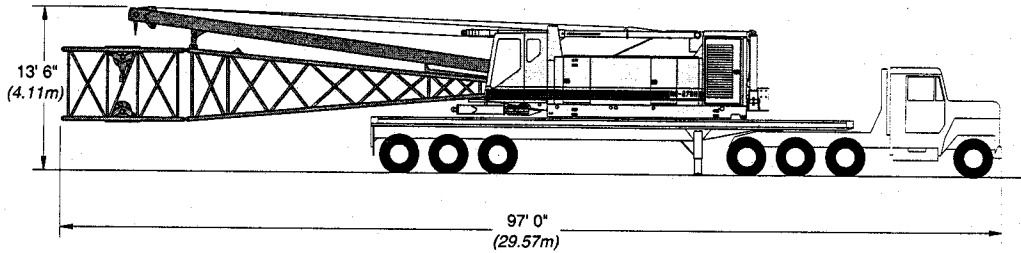
Carrier/Upper/Boom Base Transport

Carrier



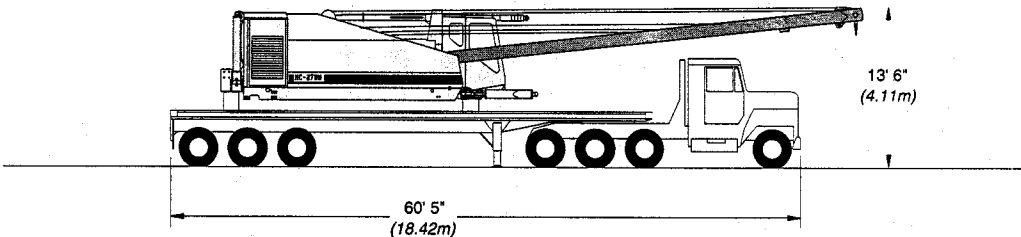
HC-278H Carrier.....91,620 lbs. (41 559 kg)
 with Goodyear® tires
 (outrigger boxes and beams in place – outrigger jacks removed)

Load #1 (Alternate 'A')



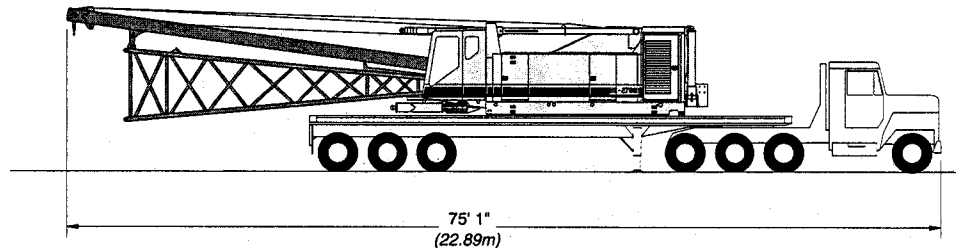
HC-278H Upper with base section, special 10' (3.05 m)
 extension with lifting sheaves, and live mast
 81,669 lbs. (37 045 kg)

Load #1 (Alternate 'B')



HC-278H Upper with live mast only
 75,315 lbs. (34 163 kg)

Load #1 (Alternate 'C')

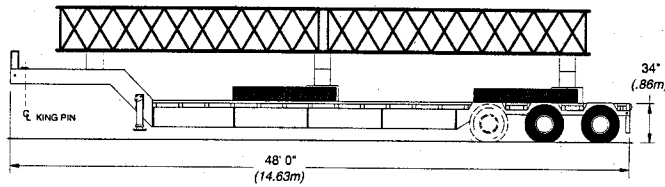


HC-278H Upper with base section and live mast
 79,440 lbs. (36 034 kg)

GENERAL INFORMATION ONLY

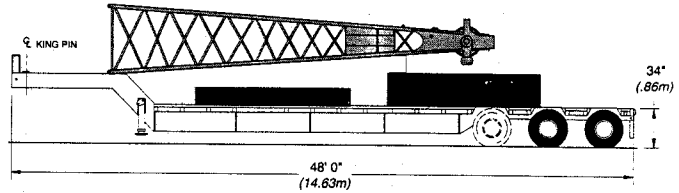
Boom + Jib Transport

Load #2



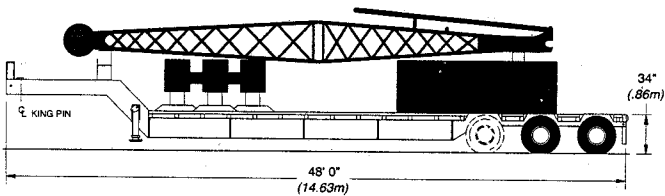
Upper Cwt. "C"	21,500 lbs.	(9 752 kg)
Upper Cwt. "D"	21,500 lbs.	(9 752 kg)
4 - 20' (6.10 m) Jib Extensions	1,800 lbs.	(816 kg)
	44,800 lbs.	(20 320 kg)

Load #5



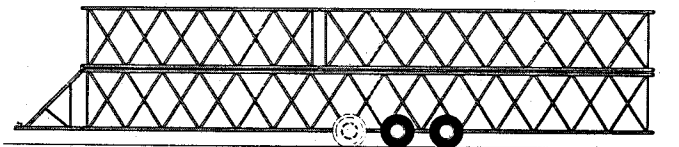
Boom Tip	5,175 lbs.	(2 347 kg)
Bumper Cwt. "A"	11,400 lbs.	(5 171 kg)
Upper Cwt. "B"	25,200 lbs.	(11 431 kg)
	41,775 lbs.	(18 949 kg)

Load #3



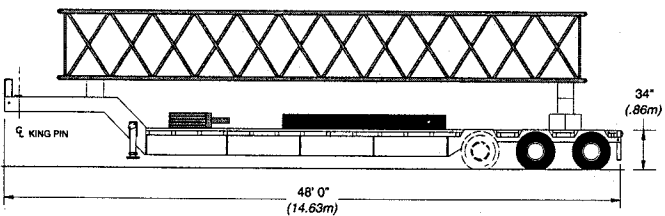
Upper Cwt. "A"	30,000 lbs.	(13 608 kg)
Outrigger Jacks, Floats, and Handling Tree	6,400 lbs.	(2 903 kg)
Basic 30' (9.14 m) Jib	2,184 lbs.	(991 kg)
Rigging Box	4,000 lbs.	(1 814 kg)
	42,584 lbs.	(19 316 kg)

Load #6



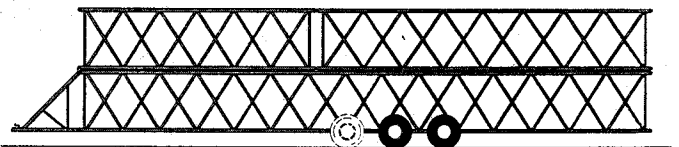
100' (30.48 m) Boom	10,000 lbs.	(4 536 kg)
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Load #4



Bumper Cwt. "B"	15,300 lbs.	(6 940 kg)
200-ton (181 t), 6 Sheave Block	3,900 lbs.	(1 769 kg)
40' (12.19 m) Boom Insert	4,480 lbs.	(2 032 kg)
	23,680 lbs.	(10 741 kg)

Load #7



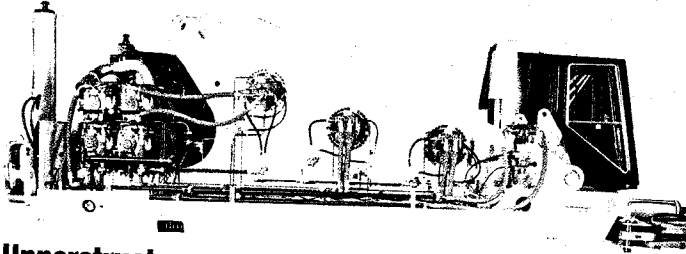
100' (30.48 m) Boom	10,000 lbs.	(4 536 kg)
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GENERAL INFORMATION ONLY

Pinpoint Hydraulic Control

GENERAL INFORMATION ONLY

Close Loop Hydraulics For Dedicated, Responsive Performance

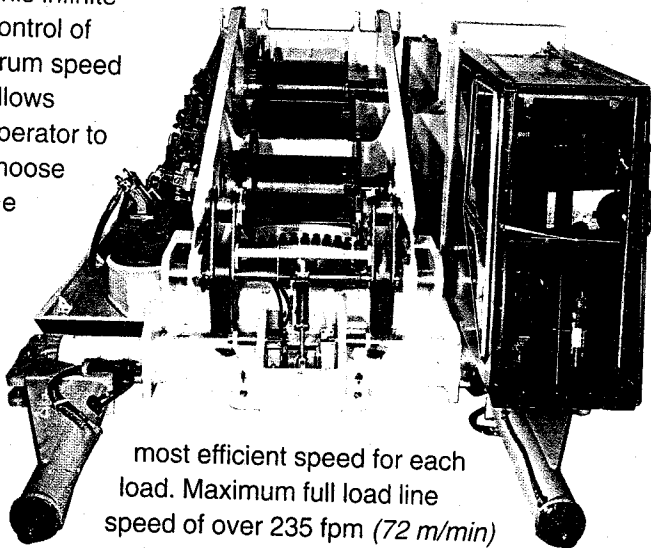


Upperstructure All welded, precision machined frame. All hydraulic lines and motors provide a 'clean' look with maximum service accessibility.

Hydraulic Power System A Cummins N14-C360 diesel provides power to variable displacement piston pumps. These pumps provide power to individual hydraulic motors for fast, efficient operation of front and rear load hoist drums, boomhoist drum and swing drive. Fully independent hydraulic control allows drums to be run simultaneously at different speeds or in different directions. Large capacity hydraulic cooling keeps all hydraulics running in the green.

Load Control The variable displacement system provides infinite control of load speed in hoist and lowering modes. Load speed is directly proportional to lever movement.

This infinite control of drum speed allows operator to choose the



most efficient speed for each load. Maximum full load line speed of over 235 fpm (72 m/min) results in high speed crane work.

Multiple disc drum brakes are integral with drum drive units. Drum brakes and standard drum locking pawls automatically apply when control lever is in neutral position, keeping you in compliance with the latest codes.

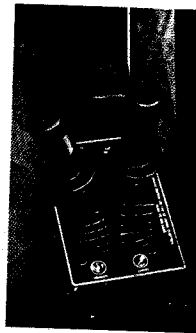
Fine Inching Control For super precise control of load lowering/hoisting, hydraulic pump flow can be minimized by activating the 2-speed pump control switch located on the overhead console. This allows the operator to place loads with either the main or rear drums with extreme accuracy.

Boomhoist Independent hydraulic boomhoist is driven by a variable displacement, axial piston motor through a gear reduction system. This system features infinitely variable boomhoist speed, automatic boomhoist brake and a limiting device that restricts hoisting boom beyond recommended minimum radius.

Swing Variable speed and smooth swing is provided by the hydraulic swing system. A standard swing brake is applied by a convenient button on the swing lever. A hydraulically controlled positive, 360° swing lock is also provided for transport.

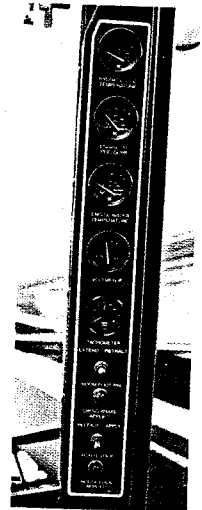
Operator Control Station Situated in an environmental, modular type cab, the operator comfortably sits in a cloth upholstered, fully adjustable seat for all-day comfort.

Single axis, armchair controllers provide positive, smooth control of all drum and swing functions. Standard drum rotation indicators for front, rear and boomhoist drums are recessed in drum control lever handles. Also, a standard boomhoist foot control offers maximum productivity.

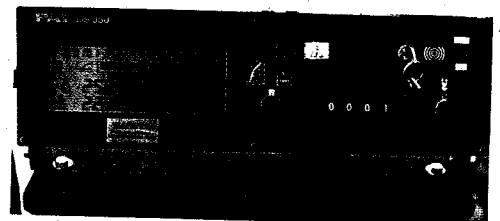


An overhead console contains switches for wiper, on/off drum controls, 2-speed drum control, and lights.

A complete complement of gauges monitor all aspects of the 360 horsepower (269 kW) upper engine. Mounted on the inside cab corner post, these gauges are easily viewed at a glance. Gauge panel also includes switches for house lock and hydraulic boomfoot pin and a swing brake indicator light.



Rated Capacity Limiter The standard PAT DS-350 rated capacity limiter, programmed with multiple charts, provides the operator with: main boom angle, jib angle, operating mode, load radius, boom tip height, anti-two block indicator, pre-warning light, audible alarm, overload light, and load on hook.



Link-Belt Construction Equipment Company Lexington, Kentucky

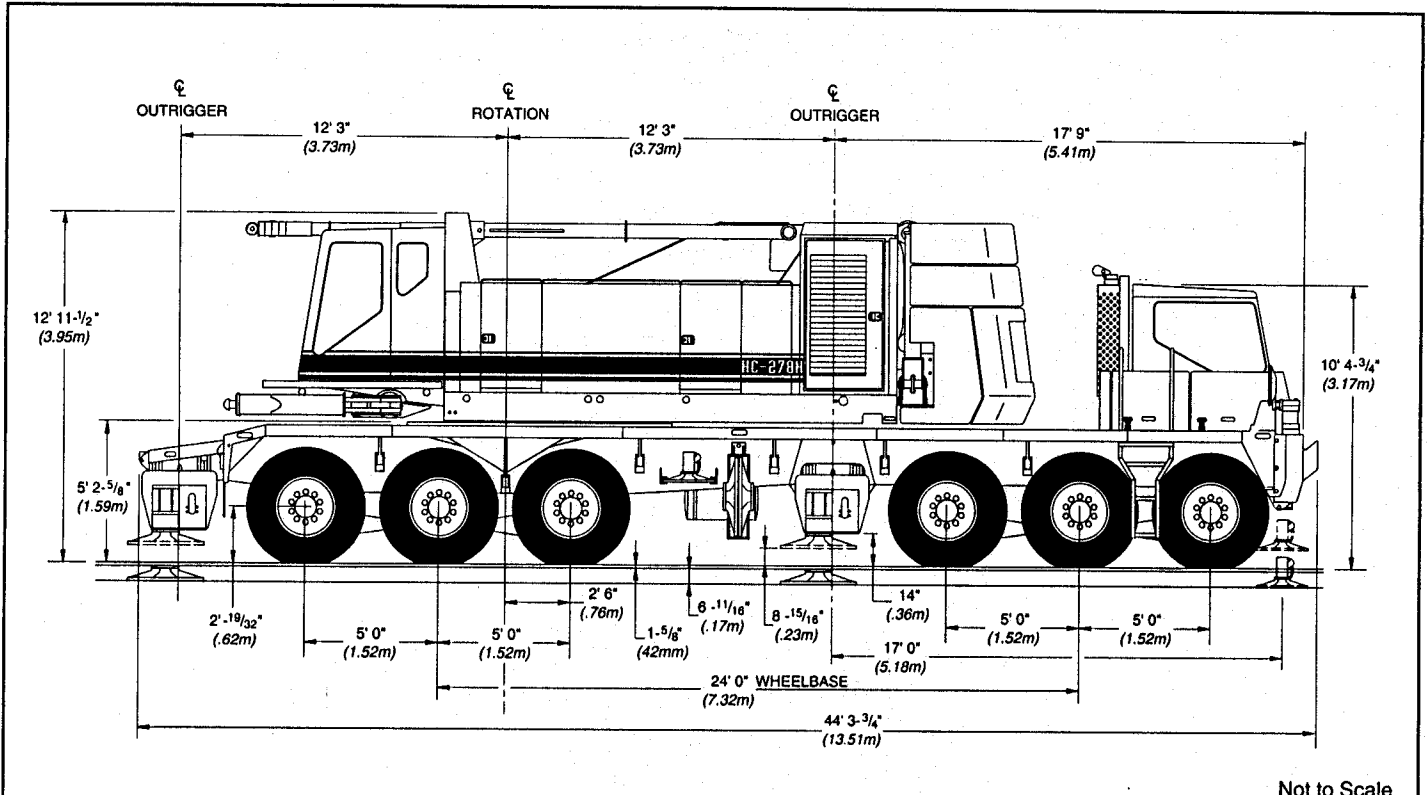
A unit of Sumitomo Construction Machinery Co., Ltd. Litho in U.S.A. 9/97 #4211

© Link-Belt is a registered trademark. Copyright 1997. All rights reserved. We are constantly improving our product and therefore reserve the right to change designs and specifications.

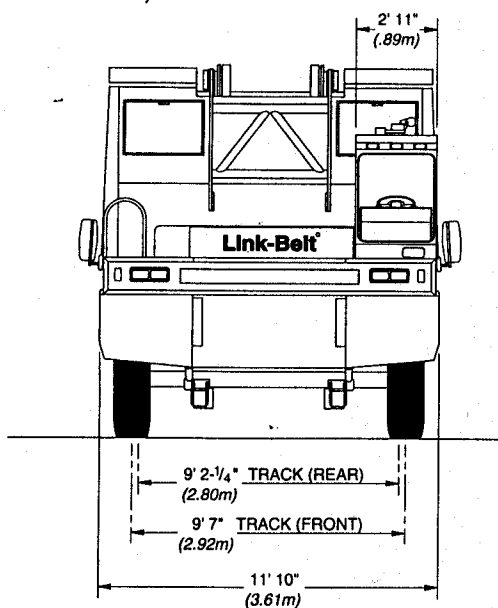
Specifications

300 ton - 272 metric ton - (HYLAB) Hydraulic Lattice Boom Truck Crane

HC-278H



Not to Scale



General dimensions	feet	meters
Overall width, outriggers extended, (over floats)	27' 4"	8.33
Overall width, outriggers extended, (c/l of jacks)	24' 6"	7.46
Overall width, outriggers retracted, jacks removed	11' 10"	3.61
Vehicle clearance circle over outside of front bumper	122' 10"	37.44
Vehicle clearance circle over outside of front bumper counterweight	125' 10"	38.35
Minimum ground clearance (at bottom of front bogie beams)	8-7/8"	0.22
Counterweight tailswing (at corners)	18' 9"	5.72
Overall cab width (upper)	11' 10"	3.61
Radius of boom hinge pin	3' 2"	0.97
Height of boom hinge pin	7' 3-3/8"	2.22
Ground clearance under counterweight	5' 5-3/8"	1.65

GENERAL INFORMATION ONLY

General Dimensions - Open Throat Boom	feet	meters
Basic Boom Length	60'	18.29
Overall length: boom in travel position over rear of carrier, with "A" upper and no bumper counterweights -	-	-
With 60' (18.29 m) basic boom - open throat	96' 4-1/2" ①	29.38 ①
Height: over boom live mast with boom in travel position -	-	-
With 60' (18.29 m) basic boom - open throat	21' 9-3/4"	6.65

General Dimensions - Hammerhead Boom	feet	meters
Basic Boom Length	45'	13.71
Overall length: boom in travel position over rear of carrier, with "A" upper and "A" bumper counterweights only -	-	-
With 45' (13.71 m) basic hammerhead boom -	79' 10-1/4" ①	24.34 ①
Height: over boom live mast with boom in travel position over rear of carrier -	-	-
With 45' (13.71 m) basic hammerhead boom	23' 5" ②	7.14 ②

① Interference with carrier cab prohibits over-the-road travel with boom horizontal over front of carrier.

② Special boom carrying links (for hammerhead boom only) reduce over-all height to 12' 11-1/2" (3.95 m).

Travel Weights - approximate

Carrier Only	Front tridem axle		Rear tridem axle		Total	
	lbs.	kg	lbs.	kg	lbs.	kg
Carrier with Detroit Diesel Series 60 engine and with revolving upperstructure removed	33,020	14 978	63,740	28 912	96,760	43 890
Remove front outrigger jacks	-1,350	-612	-850	-386	-2,200	-998
Remove rear outrigger jacks	+ 890	+ 404	-3,090	-1 402	-2,200	-998
Remove 5 outrigger floats from carrier storage.	-340	-154	-400	-181	-740	-335
Goodyear tires	-600	-272	-1,200	-544	-1,800	-816
Total	31,620	14 343	58,200	26 400	89,820	40 743

Revolving Upperstructure Only	Total	
	lbs.	kg
Basic crane upper with Cummins N14 - C360 diesel engine, boomhoist rope, boom stops, boom live mast, bail assembly, full fuel and self undecking equipment	71,440	32 405
Add 810' (247 m) of 1" (25 mm) Type "P" wire rope on rear drum	1,475	669
Add 1,025' (312 m) of 1-1/8" (29 mm) Type "LB" wire rope on front drum	2,400	1 089
	75,315	34 163
Add 30' (9.14 m) open throat boom base section	4,125	1 871
Total	79,440	36 034

Axle Loads - Approximate

Standard HC-278H revolving upperstructure equipped with Cummins N14-C360 diesel engine, load hoist drums, 30,000 lbs. (13 608 kg) counterweight "A", self undecking equipment mounted on 288" (7.32 m) wheelbase, 12 x 6 drive carrier, 11' 10" (3.61 m) wide, equipped with Detroit Diesel 60 Series engine, front center hydraulic jack, Michelin tires, and full fuel.	Basic Machine Gross Weight		Upper facing front				Upper facing rear				
	**	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg
	A	93,330	42 335	-25,666	-11 642	118,996	53 977	48,220	21 873	45,110	20 462
B	70,500	31 979	30,020	13 617	40,480	18 362	30,020	13 617	40,480	18 362	
C	163,830	74 314	4,354	1 975	159,476	72 339	78,240	35 490	85,590	38 824	
Adjust axle loadings accordingly for the following components:	Component Weights		Front axle		Rear axle		Front axle		Rear axle		
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	
Upperstructure -											
Remove self undecking equipment from upper	-13,910	-6 310	-695	-315	-13,215	-5 994	-2,200	-998	-11,710	-5 312	
Remove counterweight "A"	-30,000	-13 608	18,625	8 448	-48,625	-22 056	-24,870	-11 281	-5,130	-2 327	
Rear drum wire rope - 810' (247 m) of 1" (25 mm) Type "P"	1,475	669	-125	-57	1,600	726	430	195	1,045	474	
Front drum wire rope - 1,025' (312 m) of 1-1/8" (29 mm) Type "LB"	2,400	1 089	145	66	2,255	1 023	355	161	2,045	928	
Boomhoist wire rope on drum - 870' (265 m) of 1" (25 mm) Type "W"	1,620	735	-335	-152	1,955	887	675	306	945	429	
Boom stops, support struts and lever arms	-1,365	-619	285	129	-1,650	-748	-570	-259	-795	-360	
Carrier -											
Add front outrigger box	10,560	4 790	6,490	2 944	4,070	1 846	6,490	2 944	4,070	1 846	
Add rear outrigger box	10,560	4 790	-4,290	-1 946	14,850	6 736	-4,290	-1 946	14,850	6 736	
Add front outrigger jacks	2,200	998	1,350	612	850	386	1,350	612	850	386	
Add rear outrigger jacks	2,200	998	-890	-404	3,090	1 402	-890	-404	3,090	1 402	
Add main outrigger floats	660	299	309	140	351	159	309	140	351	159	
Add bumper outrigger float	80	36	31	14	49	22	31	14	49	22	
Remove H/D axles	-2,080	-943	0	0	-2,080	-943	0	0	-2,080	-943	
Add Ceemat transmission	300	136	300	136	0	0	300	136	0	0	
Add "A" bumper counterweight	11,400	5 171	15,570	7 063	-4,170	-1 892	15,570	7 063	-4,170	-1 892	
Add "B" bumper counterweight	15,300	6 940	21,591	9 794	-6,291	-2 854	21,591	9 794	-6,291	-2 854	
Add Goodyear tires	-1,800	-816	-600	-272	-1,200	-544	-600	-272	-1,200	-544	
Attachment -											
30' (9.14 m) open throat tubular boom base section with 4 connecting pins - horizontal over rear of carrier.	4,125	1 871	-	-	-	-	-2,515	-1 141	6,640	3 012	
35' (10.67 m) boom live mast and bridle - mast horizontal over rear of carrier.	6,490	2 944	7,235	3 282	-745	-338	-5,880	-2 667	12,370	5 671	
Boomhoist wire rope (from bail to boom live mast) - mast horizontal over rear of carrier	1,620	735	1,070	485	550	250	-735	-333	2,355	1 068	
60' (18.29 m) open throat tubular boom - horizontal over rear of carrier.	9,300	4 218	-	-	-	-	-13,985	-6 344	23,285	10 562	
45' (13.72 m) hammerhead tubular boom - horizontal over rear of carrier.	9,860	4 472	-	-	-	-	-12,120	-5 498	21,980	9 970	

** A - Upper B - Carrier C - Total

Mounting

■ Type

288" (7.32 m) wheelbase, 12 x 6 drive.
11' 10" (3.61 m) wide.

Frame - Main members heat treated alloy steel, triple-box construction. Machined mounting surface for outer race of turntable bearing. Towing shackles front and rear.

Turntable bearing - Outer race, with integral external tooth swing (ring) gear bolted to carrier frame.

■ Outriggers

Dual outriggers, with hydraulic beams and jacks, mounted at center and rear of carrier. Hydraulic outrigger beams and jack cylinders individually controlled from valve at each outrigger beam location. Center outrigger box equipped with rollers which ride in a track to facilitate removal of outrigger assembly when required.

Outrigger box pin puller - hydraulic; standard.

Front center hydraulic jack with float - Single hydraulic jack, with float, mounted at front of the carrier. Jack setting controlled by valve at left front of carrier. Jack/float assembly required for handling 360° swing rated capacities. Warning horn sounds if ground surface allows front center jack/float to settle.

Floats - Four low profile, snap-on, alloy steel; 34" (.86 m) dia. base.

Front center: snap-on aluminum; 24" (.61 m) dia. base.

■ Axles

Front - Tubular; bogie mounted tridem axles, single wheels, 115" (2.92 m) track.

Rear - Planetary type; bogie mounted tridem axles, dual wheels, 110.25" (2.80 m) track.

Suspension - Hendrickson bronze bushed equalizer beams with rubber bushed torque rods and shock absorbers on front axle.

Wheels and rims - Front; disc type. Rear; integral with planetary hubs.

■ Tires

Single tires front, dual tires rear.

Standard - 14.00 x 24L (20-ply rating) transport type tread.

Optional - Michelin 14R24 XGC radials front and rear.

■ Brakes

Air brake system

Service - Dual circuit with modulated emergency brakes. Bendix dual circuit 12 wheel air brakes with service chambers on 6 front wheels and spring applied, air released emergency, parking, service chambers on 6 rear wheels. Air dryer standard.

Size -

Rear wheels; 16-1/2" x 7" (0.50 x 0.18 m)

Front wheels; 16-1/2" x 6" (0.50 x 0.15 m)

Steering - Sheppard full integral hydraulic power with one master gear (includes hydraulic control valving), one slave gear (includes no valving) and one hydraulic pump for each axle. Steering gears mounted high on side of frame to minimize exposure to hazards. Separate master and slave for each wheel eliminates transfer of steering force from entire system into one axle which could overload and damage linkage. Steering wheel is mechanically connected to axles to allow steering (with increased steering input effort) in the event of hydraulic system failure. Multiple pumps minimize possibility of total hydraulic system failure and only require increase in steering input effort sufficient to compensate for that portion of system that failed. High speed, high power system to maximize maneuverability both on the job site and on the road.

■ Engine/Transmissions

Carrier engine - 12.7 liter Series 60 DDEC diesel; with starter, full-pressure lubrication, power steering pump, dry-type air cleaner, air compressor and alternator.

Clutch - Valeo 17" (.43 m) single plate, dry disc, diaphragm spring.

Transmissions -

Main - Eaton RTO 14908LL, ten speeds forward, three reverse.

Auxiliary - Spicer P-1241-C; 4-speed, midship mounted.

Universals - Easy service half-round u-joints.

Automatic - Optional

Main - Eaton RTO 14109B ATE CEEMAT (Converter Enhanced Electronically Managed Automatic Transmission), 9 speeds forward, shifted fully automatically, 1 reverse. Ratios and speeds are similar to the manual transmission. Consult factory for more details.

Auxiliary - Spicer P-1241-D; 4-speed midship mounting. Same as the auxiliary transmission for the manual version except with a 1.59:1 1st gear ratio.

■ Bumper Counterweight

"A" counterweight - 11,400 lbs. (5 171 kg)

"B" counterweight - 15,300 lbs. (6 940 kg)

■ Carrier Cab

One-man, fully enclosed. Air suspension mounted bucket seat with seat belt. Noise absorbing insulation with vinyl covering, sound reduction headliner, rubber floor mat. Tilt-out instrument panel (for easy service) includes speedometer, odometer, tachometer, voltmeter, hourmeter, clock, and gauges for fuel level, engine temperature, engine oil pressure, air pressure, and transmission temperature (auto. trans. only). Control switches are included for cruise control, engine fan clutch, heater/defroster, and lights. Also included are low air pressure warning buzzer/light, transmission overheat warning buzzer/light (auto. trans only) and parking brake applied light. The tilt/telescoping steering column includes key locking ignition/starter, and 2-speed windshield wiper/washer. Sliding right and rear windows. Roll down door window. Front and roof fresh air vents.

Carrier

■ Electrical System

12-volt negative ground system with 12-volt starting. Includes dual sealed beam headlights, directional signals with 4-way flashing system, stop and tail lights, side turn indicators, clearance lights, horn, dome light, dimmer switch, and four 12-volt Group 31 batteries.

■ Fuel Tank

One 85 gallon (321.7 liter) capacity aluminum tank; side mounted on carrier frame.

■ Standard Equipment

West Coast type rear view mirrors with adjustable convex mirror, lug wrench, 2-way reading bubble levels on both sides of carrier. High pressure lube fittings at all bearing points, hand grab rails, fenders, mud flaps, skid-resistant finish on carrier deck, backup alarm, carrier deck access ladder both sides and rear of carrier.

Engine Specifications	Detroit Diesel Series 60 DDEC
Number of cylinders	6
Bore	5.12" (0.13 m)
Stroke	6.30" (0.16 m)
Piston Displacement	778 cu. in. (12 751 cm ³)
Max. brake h.p. @ r.p.m.	430 (321 kw) @ 2,100
Governed load speed r.p.m.	2,100
Peak torque @ r.p.m.	1,450 ft. lbs. (1 966 joules) @ 1,200
Electrical system	12-volt charging/12-volt starting
Batteries	Four 12-volt
Air compressor	Bendix TU-FLO 1400

Carrier Speeds

Main - Eaton RTO 14908LL			Auxiliary - Spicer P-1241-C							
Gear		Ratio	4th (.81)		3rd (1.00)		2nd (1.24)		1st (2.37)	
			mph	km/h	mph	km/h	mph	km/h	mph	km/h
High	8th	.74	58.5*	94.2*	47.4	76.3	38.2	61.5	20.0	32.2
	7th	1.00	43.2	69.5	35.1	56.5	28.3	45.5	14.8	23.8
	6th	1.36	31.8	51.2	25.8	41.5	20.8	33.5	10.9	17.5
	5th	1.83	23.6	38.0	19.2	30.9	15.5	24.9	8.1	13.0
Low	4th	2.53	17.1	27.5	13.9	22.4	11.2	18.0	5.9	9.5
	3rd	3.40	12.7	20.4	10.3	16.6	8.3	13.4	4.4	7.1
	2nd	4.63	9.3	15.0	7.6	12.2	6.1	9.8	3.2	5.1
	1st	6.24	6.9	11.1	5.6	9.0	4.5	7.2	2.4	3.9
L	9.42	4.6	7.4	3.7	6.0	3.0	4.8	1.6	2.6	
Deep Reduction	LL	14.56	3.0	4.8	2.4	3.9	1.9	3.1	1.0	1.6
Hi Rev.	Rev.	2.89	15.0	24.1	12.1	19.5	9.8	15.8	5.1	8.2
Lo Rev.	Rev.	9.85	4.4	7.1	3.6	5.8	2.9	4.7	1.5	2.4
Deep Reduction	Rev.	15.22	2.8	4.5	2.3	3.7	1.9	3.1	1.0	1.6
Deep Reduction @ 600 rpm	LL	14.56	.85	1.4	.7	1.2	.55	.9	.3	.5
Deep Reduction @ 600 rpm	Rev.	15.22	.8	1.3	.65	1.1	.5	.8	.3	.5

* Radial tires and pick and carry axles and rims required for top speeds above 50 mph (80.45 km/hr).

Turning Ability

Turning circle diameter	Curb clearance circle diameter	Vehicle clearance circle diameter		
		Over outside of front bumper	Over outside of front bumper counterweight "A"	Over outside of front bumper counterweight "AB"
Centerline of outer front tire	Outside of outer front tire	Over outside of front bumper	Over outside of front bumper counterweight "A"	Over outside of front bumper counterweight "AB"
118' 1" (35.99 m)	119' 5" (36.40 m)	122' 10" (37.44 m)	123' 10" (37.74 m)	125' 10" (38.35 m)

Upperstructure

■ **Frame**

All welded, precision machined; machinery side housings welded integral with frame.

■ **Turntable Bearing**

Bearing retainer is bolted to machined surface on underside of frame. Turntable bearing with integral external tooth swing (ring) gear is bolted on carrier. Patented

(hydraulic cylinder actuated) quick disconnect lock ring facilitates removing upper from carrier for transport without disturbing the turntable bearing mounting.

■ **Self-Undecking Device**

Standard; Four hydraulic jacks mounted on the upperstructure allow the upper to be removed from or remounted on carrier. No helper crane is needed for any phase of the undecking operation.

■ **Engine**

Diesel; full pressure lubrication, oil filter, air cleaner, hour meter, foot and hand throttles. Electrically energized control shutdown for Cummins engine, switch key operated.

■ **Fuel Tank**

143 gallon (541 liter) capacity; equipped with fuel level gauge and flame arrester filler pipe cap with locking eye for padlock.

HC-278H Load Hoisting Performance

Available line speed and line pull - Line pulls are not based on wire rope strength. See wire rope chart below for maximum permissible single part of line working loads.

Line Speeds and Pulls

Rope layer	Front Drum - 1-1/8" (28 mm) wire rope						Rear Drum - 1" (25 mm) wire rope					
	Maximum line pull		No load line speed		Full load line speed		Maximum line pull		No load line speed		Full load line speed	
	lbs.	kg	ft./min	m/min	ft./min	m/min	lbs.	kg	ft./min	m/min	ft./min	m/min
1	50,103	22 727	275	84	137	41	34,143	15 487	461	140	200	60
2	45,281	20 539	305	93	151	46	32,074	14 549	491	149	213	64
3	41,305	18 736	334	102	166	50	30,241	13 717	520	158	226	68
4	37,971	17 224	363	111	180	54	28,606	12 976	550	167	239	72
5	35,135	15 937	393	120	195	59	-	-	-	-	-	-
6	32,693	14 830	422	129	209	64	-	-	-	-	-	-

Rope layer	Boomhoist Drum - 1" (25 mm) wire rope						Third Drum - 1" (25 mm) wire rope					
	Maximum line pull		No load line speed		Full load line speed		Maximum line pull		No load line speed		Full load line speed	
	lbs.	kg	ft./min	m/min	ft./min	m/min	lbs.	kg	ft./min	m/min	ft./min	m/min
1	44,757	20 302	230	70	115	35	22,980	12 689	408	124	207	63
2	40,865	18 536	252	77	126	38	20,862	9 461	449	136	228	69
3	37,596	11 459	274	84	137	41	19,102	8 663	491	149	249	75
4	34,811	15 790	295	90	148	45	17,615	7 988	532	161	270	82
5	-	-	-	-	-	-	16,343	7 411	574	174	291	88

Wire Rope Drum Capacities

Rope layer	Boomhoist Drum Capacity - 1" (25 mm) wire rope					
	Pitch Diameter		Layer		Total	
	in.	mm	ft.	m	ft.	m
1	21	533	152	46	152	46
2	23	584	167	51	319	97
3	25	635	181	55	500	152
4	27	686	196	60	695	212

Rope layer	Front Drum Capacity - 1-1/8" (28 mm) wire rope					
	Pitch Diameter		Layer		Total	
	in.	mm	ft.	m	ft.	m
1	21.125	537	143	44	143	44
2	23.375	594	158	48	301	92
3	25.625	651	173	53	474	144
4	27.875	708	188	57	662	202
5	30.125	765	204	62	866	264
6	32.375	822	219	67	1,084	330

Rope layer	Rear Drum Capacity - 1" (25 mm) wire rope					
	Pitch Diameter		Layer		Total	
	in.	mm	ft.	m	ft.	m
1	31	787	236	72	236	72
2	33	838	251	77	486	148
3	35	889	266	81	752	229
4	37	940	281	86	1,034	315

Rope layer	Third Drum Capacity - 1" (25 mm) wire rope					
	Pitch Diameter		Layer		Total	
	in.	mm	ft.	m	ft.	m
1	19.7	500	150	46	150	46
2	21.7	551	165	50	315	96
3	23.7	602	180	55	495	152
4	25.7	652	195	60	690	210
5	27.7	703	211	64	901	275

Wire Rope: size, type and working strength

Wire rope application	Size: diameter		Type	Max. permissible load	
	inches	mm		lbs.	kg
Main hoist	1-1/8	28	LB	40,800	18 507
Auxiliary hoist (1 part)	1	25	P	16,800	7 620
Auxiliary hoist (2 part)	1	25	N	29,500	13 381
Auxiliary hoist	1-1/8	28	N	37,100	16 829
Boomhoist	1	25	W	29,500	13 381
Third drum	1	25	RB	22,700	10 297
Boom pendants	1-1/4	32	N	n/a	n/a
Midpoints pendants	1	25	N	n/a	n/a
Jib pendants	7/8	22	N	n/a	n/a

Wire Rope: types available

- Type "N" - 6 x 25 (6 x 19 class) filler wire, extra improved plow steel, preformed, independent wire rope center, right lay, regular lay.
- Type "LB" - 6 x 25 (6 x 19 class) filler wire, preformed, independent wire rope center, right lay, regular lay.
- Type "RB" - 18 x 19 rotation resistant, extra, extra improved plow steel, preformed, right lay, regular lay, swaged.
- Type "P" - 19 x 7 rotation resistant, extra improved plow steel, preformed, wire strand core. Inner 7 strands: left lang lay. Outer 12 strands: right regular lay.
- Type "W" - 6 x 26 (6 x 19 class), extra improved plow steel, preformed, independent wire rope core, right lay, alternate lay.

Engine	Cummins N14 - C360
Number of cylinders	6
Bore	5.5" (0.14 m)
Stroke	6" (0.15 m)
Piston Displacement	855 cu. in. (14 013 cm ³)
Maximum h.p. @ full load speed rpm	360 h.p. (269 kw) @ 1,800 rpm
High idle speed	2,000 rpm
Peak torque	1,215 ft. lbs. (168 kgm) @ 1,400 rpm
Electrical system	12 volt charging - 24 volt starting
Batteries	Two 12-volt

Hydraulic System

■ Transmission

Four pad pump drive; 1.289 to 1 gear ratio. Helical gears are mounted on tapered roller bearings. Flex plate driven. Front and rear drum pumps operate at 5,000 psi (352 kg/cm²). Boomhoist pump operates at 4,600 psi (323 kg/cm²). Variable displacement swing drive pump operates at 4,350 psi (306 kg/cm²). Speed-o-Matic® control system is powered by a fixed displacement gear pump.

■ Hydraulic Oil Reservoir

Link-Belt, 89 gallon (337 liter) capacity with filter and strainer assembly.

■ Relief Valves

Each function is equipped with relief valves to protect the circuit from overload or shock.

■ Hydraulic Filtration

Pumps for front, rear, and boomhoist drums and for swing drive have a built-on 10-micron filter in the charge pressure circuit.

■ Counterbalance Valves

Hoist motors are equipped with counterbalance valves to provide positive load lowering and prevent accidental load drop when hydraulic power is suddenly reduced.

Principal Operating Functions

■ Control System

Speed-o-Matic® power hydraulics; a variable pressure system requiring no bleeding. Operating pressure is transmitted through oil to all pumps. System includes a gear pump to provide a constant flow, an accumulator to maintain operating pressure, oil filter, relief valve, and variable pressure operator controlled valves to regulate pressure to each pump.

■ Load Hoisting & Lowering

Main and auxiliary hoist drums are driven by individual axial piston motors and reduction gearing. Load hoisting or lowering is provided by actuating or reversing a hydraulic motor. Smooth, precise, power load lowering is attained with automatic hydraulic brake. Hoisting or lowering speeds are proportional to lever movement.

■ Load Hoist Drums

Front drum - One-piece, smooth 20" (0.51 m) root diameter.

Rear drum - One-piece, smooth 30" (0.76 m) root diameter.

■ Drum Brakes

Multiple disc, integral with drum drive unit. Spring applied, hydraulically released. Brakes automatically apply when control lever is in neutral position.

■ Drum Rotation Indicators

Standard for front, rear, and boomhoist drums. Solenoid operated indicator button, recessed in drum control lever handles; button pulsates when rope drums rotate.

■ Drum Locking Pawl

Standard for front and rear drums; spring applied and hydraulically released. Prevents drum rotation in a lowering direction. Pawls automatically apply when control lever is in neutral position.

■ Swing System

Independent, hydraulic swing is driven by a bent axis, fixed displacement piston motor through a gear reduction system. Free swing when lever is in neutral position.

Swing Brake - Spring applied, hydraulically released multi-plate swing brake mounted at input side of planetary gear box. Brake controlled by button on swing control lever.

Swing lock - Hydraulically controlled, 360°.

Maximum swing speed - 2.4 r.p.m.

■ Boom Hoisting & Lowering

Independent, hydraulic boomhoist is driven by a variable displacement, axial piston motor through a gear reduction system. Boom hoisting or lowering is performed by actuating or reversing the motor. Boomhoist speed is infinitely variable.

■ Boomhoist Drum

One-piece, smooth; 20" (0.51 m) root diameter. Ratchet wheel for drum locking pawl integral with drum flange.

Boomhoist brake - Spring applied, hydraulically released, multiple disc type brake. Brake is automatically applied when control lever is in neutral position.

■ Boomhoist Drum Locking Pawl

Spring applied, hydraulically released. Prevents drum rotation in a lowering direction. Pawl automatically applies when control lever is in neutral position.

Boomhoist limiting device - Provided to restrict hoisting boom above maximum recommended boom angle; located on exterior right-hand side of operator's cab. Electrical switch contacted by boom striker bracket, deactivates hydraulic solenoid valve which shuts off hydraulic pressure in line to boomhoist pump and brake. As pressure is shut off, boomhoist brake is spring applied.

■ Electrical System

Battery: Two 12-volt, 225 ampere hour batteries and 12-volt, 105 ampere alternator.

■ Operator's Cab

Environmental cab, modular type with sliding door; isolated from upper machinery cab. Cab door and windows equipped with safety tinted glass panels. Standard cab equipment includes hand grab rail, cab heater/defroster and windshield wiper/washer.

■ Machinery Cab

Equipped with warning horn, hinged doors for access to machinery, rooftop access ladder and skid resistant finish on roof.

■ Gantry

Mounted to upper frame; supports boom suspension system.

■ Gantry Bail

Pinned to gantry; supports boom suspension system. Bail contains 8 sheaves for 18-part boomhoist rope reeving; sheaves mounted on anti-friction bearings.

Counterweights

Total - 98,200 lbs. (44 544 kg)

"A" cwt. - 30,000 lbs. (13 608 kg)

"B" cwt. - 25,200 lbs. (11 431 kg)

"C" cwt. - 21,500 lbs. (9 752 kg)

"D" cwt. - 21,500 lbs. (9 752 kg)

Attachment - Open Throat

Boom - Tubular; two section basic boom 60' (18.29 m) long.

Base section - 30' (9.14 m) long, 80" (2.03 m) wide, 68" (1.73 m) deep. Lifting lugs on top side of base section to attach carrying links for carrying boom base section.

Boom extensions - Available in 10' (3.05 m), 20' (6.10 m), 30' (9.14 m), 40' (12.19 m) and 50' (15.24 m) lengths; 80" (2.03 m) wide, 68" (1.73 m) deep, centerline-to-centerline of main chords. Extensions furnished with appropriate length pendants, and one hoist line deflector roller per extension.

Boom connections - In-line, tapered pins.

Boom top section - Open throat; 30' (9.14 m) long.

Boompoint machinery - Six 21" (0.53 m) root diameter head sheaves mounted on anti-friction bearings.

Boom midpoint suspension pendants - Required for all boom lengths exceeding 240' (73.15 m). Pendants connected at 140' (42.67 m) point of boom.

Maximum open throat boom length permitted - 330' (100.58 m) boom or 300' (91.44) + 100' (30.48 m) boom and jib combination.

Attachment - Hammerhead

Boom - Tubular; three section basic boom 45' (13.71 m) long.

Base section - 30' (9.14 m) long; 80" (2.03 m) wide, 68" (1.73 m) deep.

"J" Wall Straight Boom Extensions - Available in 10' (3.05 m), 20' (6.10 m) and 30' (9.14 m) lengths.

Note: When using hammerhead attachment the first 40' (12.19 m) of boom extension must be "J" wall extensions. All other extensions are standard open throat boom extensions.

Straight Boom Extensions - Available in 10' (3.05 m), 20' (6.10 m), 30' (9.14 m), 40' (12.19 m) and 50' (15.24 m) lengths; 80" (2.03 m) wide, 68" (1.73 m) deep, centerline-to-centerline of main chords. In making up various boom lengths, straight extensions

must be arranged in the boom as outlined in Crane Rating Manual.

Tapered Boom Extension - 10' (3.05 m) long; 80" (2.03 m) wide, 68" (1.73 m) deep at lower

end and 55" (1.40 m) wide, 41" (1.04 m) deep at top end.

Note: Tapered boom extension must always be used as last boom section prior to mounting hammerhead top section.

Hammerhead Top Section - 5' (1.52 m) long; 55" (1.40 m) wide, 41" (1.04 m) deep lower end.

Maximum hammerhead boom length permitted - 245' (74.68 m).

Boompoint Machinery - Six 21" (0.53 m) root diameter sheaves; mounted on anti-friction bearings.

Items Applicable to Both Hammerhead and Open Throat Tip Booms

Boom Stops

Dual lever type; connected to upper frame and top of boom base section. Spring loaded bumper ends.

Boom Live Mast

Mounted on front of upper frame; supports boomhoist bridle, spreader bar and boom midpoint suspension pendants. Mast 35' (10.67 m) long; may be used as short boom for handling counterweight, outrigger assemblies, etc. in machine stripdown and for boom assembly/disassembly.

Boom live mast stops - Incorporated with boom stops; manually positioned when using live mast as short boom.

Boomhoist Bridle

Bridle contains nine 15" (0.38 m) root diameter sheaves (for 18-part boomhoist reeving) and two 15" (0.38 m) root diameter auxiliary load hoist sheaves which enable boom live mast to be used as short boom for machine assembly/disassembly.

Sheaves mounted on anti-friction bearings.

Boom pendants - Standard; furnished for basic boom lengths plus appropriate length pendants with each boom extension.

Deflector rollers - Deflect load hoist wire rope off boom to avoid chafing; steel rollers mounted on anti-friction bearings. One roller furnished with each boom extension.

Jib

Tubular; two-piece basic jib 30' (9.14 m) long; 32" (0.81 m) wide, 24" (0.61 m) deep at centerline of connections. Alloy steel tubular chords 2-1/4" (57 mm) outside diameter.

Base section - 13' 3" (4.04 m) long.

Jib extensions - Available in 10' (3.05 m) and 20' (6.1 m) lengths with appropriate length pendants.

Jib connections - In-line, tapered pins.

Tip section - 15' (4.57 m) long; equipped with single peak sheave 21" (0.53 m) root diameter, heat treated and mounted on anti-friction bearings. Anchor provided at peak of jib tip section for two-part load hoist wire rope (whipline) connection.

Maximum jib length permitted - 100' (30.48 m). All jib lengths may be mounted at 5°, 15° or 25° offset to boom.

Jib Mast

17' 10" (5.44 m) long, mounted on jib base section. Two deflector sheaves mounted within mast to guide whipline; mounted on anti-friction bearings. Two equalizer sheaves mounted on top of mast - one for jib frontstay line, one for jib backstay line.

Jib staylines - Front and back staylines. Back staylines vary in length depending on degree of jib offset from boom centerline; back staylines attached at bottom end of boom top section.

Jib stops - Telescoping type; pinned from jib mast to boom top section and from jib mast to jib base section.

Boomfeet - 4" (101.60 mm) wide on 66" (1.68 m) centers; 5" (0.13 m) diameter boomfoot pins. Pins hydraulically removed/inserted for ease in stripdown. Double-acting hydraulic cylinder mounts on frame between boomfoot lugs.

Boomfoot pins - one connected to cylinder rod end, the other connected to the cylinder body - are pushed in, or pulled from, connection with boomfeet.

Auxiliary Equipment

Boom Angle Indicator

Pendulum type; mounted on boom base section.

Anti Two-Block System

Standard - A switch mounted on the boom peak activates a buzzer to warn the operator of a two-block condition and simultaneously disengages hoist function while applying the hoist brakes.

Rated Capacity Limiter

Standard; PAT DS-350 rated capacity limiter.

Hook Blocks

Blocks, or weighted ball with swivel hook, optional - refer to price list.

Link-Belt Construction Equipment Company

HC-278H

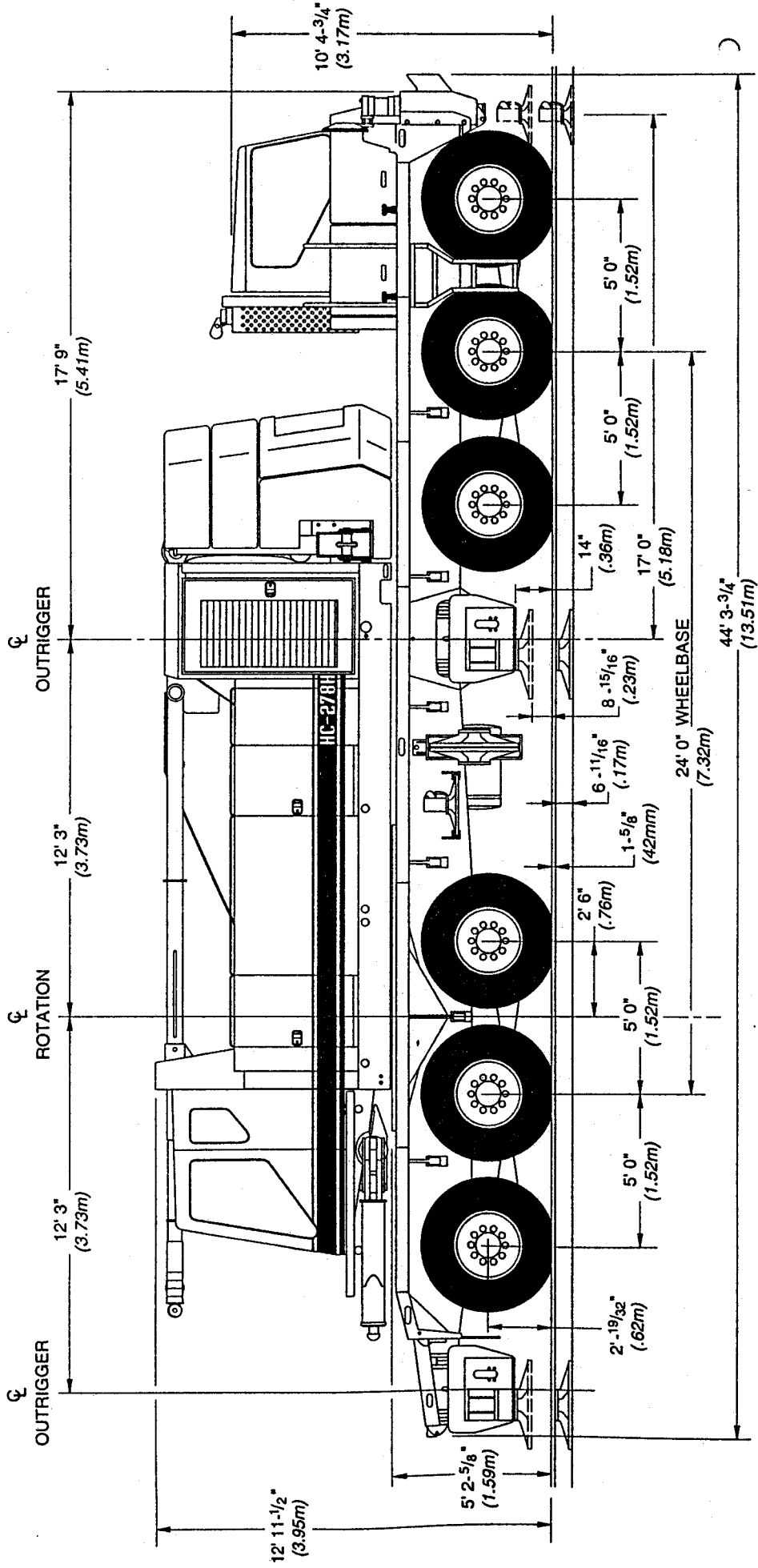
Upper Counterweight = ABCD

Lower Counterweight = A

Boom Length (ft)	Load Radius (ft)	Boom Angle (deg)	Over Rear Capacity (lbs)		360 Degree Capacity (lbs)	
100	40	68.4	152,800	*	152,800	*
100	41	67.8	149,000	*	149,000	*
100	42	67.1	145,300	*	145,300	*
100	43	66.5	141,700	*	141,700	*
100	44	65.9	138,300	*	138,300	*
100	45	65.3	135,000	*	135,000	*
100	46	64.6	131,900	*	131,000	
100	47	64.0	128,900	*	127,000	
100	48	63.4	126,000	*	123,200	
100	49	62.7	123,300	*	119,600	
100	50	62.1	120,600	*	116,200	
100	51	61.4	118,100	*	113,000	
100	52	60.8	115,600	*	110,100	
100	53	60.1	113,300	*	107,200	
100	54	59.4	111,200	*	104,400	
100	55	58.8	109,000	*	101,800	
100	56	58.1	106,900	*	99,300	
100	57	57.4	104,900	*	96,900	
100	58	56.7	102,900	*	94,500	
100	59	56.1	101,000	*	92,300	
100	60	55.4	99,200	*	90,200	

GENERAL INFORMATION ONLY

HC-278H



Not to Scale

HC-278H Tubular Jib Capacities

68" x 80" (1.73 x 2.03 m) Tube Boom - 24" x 32" (.61 x .81 m) Tube Jib - 360° Rotation - "ABCD" + "AB" Counterweights

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom											
			5 Degrees			15 Degrees			25 Degrees					
			Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)			
140	30	30	81.9	177.5	40,000*									
140	30	35	80.2	176.6	40,000*	81.9	175.9	40,000*						
140	30	40	78.5	175.6	40,000*	80.2	174.9	40,000*	81.8	173.3	40,000*			
140	30	50	75.1	173.1	40,000*	76.8	172.3	40,000*	78.3	170.8	40,000*			
140	30	60	71.6	170.0	40,000*	73.2	169.2	40,000*	74.8	167.6	40,000*			
140	30	70	68.0	166.1	40,000*	69.7	165.3	40,000*	71.1	163.7	38,900*			
140	30	80	64.4	161.5	40,000*	66.0	160.7	40,000*	67.4	159.0	36,700*			
140	30	90	60.6	156.1	40,000*	62.2	155.3	40,000*	63.6	153.5	36,700*			
140	30	100	56.7	149.8	40,000*	58.2	148.9	39,400*	59.6	147.1	36,200*			
140	30	110	52.6	142.5	40,000*	54.1	141.5	36,700*	55.4	139.6	34,200*			
140	30	120	48.2	134.0	36,300	49.7	132.9	36,400	50.9	130.9	32,600*			
140	30	130	43.5	123.9	32,400	44.9	122.8	32,500	46.1	120.6	31,200*			
140	30	140	38.3	112.0	29,100	39.7	110.8	29,100						
140	30	150	32.4	97.5	26,300									
140	30	160	25.3	78.7	23,800									
140	40	35	81.0	186.8	36,000*									
140	40	40	79.4	185.8	36,000*	81.6	184.9	35,900*						
140	40	50	76.2	183.5	36,000*	78.3	182.5	35,500*	80.3	180.5	34,600*			
140	40	60	72.9	180.5	36,000*	75.0	179.5	35,000*	76.9	177.5	34,400*			
140	40	70	69.6	176.9	35,600*	71.6	175.9	34,600*	73.5	173.9	33,100*			
140	40	80	66.2	172.6	35,200*	68.2	171.6	34,400*	70.1	169.5	30,600*			
140	40	90	62.7	167.6	34,700*	64.7	166.5	34,200*	66.5	164.4	28,600*			
140	40	100	59.0	161.7	34,500*	61.0	160.6	34,000*	62.8	158.4	26,800*			
140	40	110	55.2	155.0	33,100*	57.2	153.8	32,200*	58.9	151.5	25,300*			
140	40	120	51.2	147.2	31,200*	53.2	146.0	30,000*	54.8	143.5	24,100*			
140	40	130	47.0	138.2	29,600*	48.9	136.9	28,200*	50.4	134.3	23,000*			
140	40	140	42.5	127.7	28,100*	44.3	126.3	26,600*	45.7	123.4	22,100*			
140	40	150	37.4	115.3	26,600	39.2	113.7	25,300*						
140	40	160	31.7	100.2	24,200									
140	60	40	81.0	206.2	26,900*									
140	60	50	78.1	204.1	26,600*	81.0	202.7	25,900*						
140	60	60	75.2	201.4	26,400*	78.0	200.1	25,300*	80.7	197.4	23,600*			
140	60	70	72.2	198.2	26,200*	75.0	196.8	24,600*	77.7	194.1	21,700*			
140	60	80	69.2	194.4	25,500*	72.0	193.0	23,900*	74.6	190.2	20,000*			
140	60	90	66.1	190.0	24,800*	68.8	188.5	23,500*	71.4	185.7	18,700*			
140	60	100	62.9	184.9	24,100*	65.6	183.4	22,900*	68.1	180.5	17,500*			
140	60	110	59.6	179.0	23,600*	62.3	177.5	21,200*	64.8	174.5	16,500*			
140	60	120	56.2	172.4	22,300*	58.9	170.8	19,800*	61.3	167.7	15,600*			
140	60	130	52.6	164.8	21,000*	55.3	163.2	18,600*	57.6	159.9	14,900			
140	60	140	48.9	156.2	19,700*	51.5	154.5	17,500*	53.7	151.0	14,200*			
140	60	150	44.9	146.4	18,600*	47.5	144.5	16,600*	49.6	140.8	13,600*			
140	60	160	40.6	135.0	17,500*	43.1	133.0	15,800*	45.1	128.8	13,200*			
140	60	170	35.9	121.6	16,700*	38.3	119.4	15,100*						
140	60	180	30.5	105.5	15,900*									
140	80	50	79.6	224.5	17,600*									
140	80	60	77.0	222.1	17,200*	80.5	220.5	16,100*						
140	80	70	74.3	219.2	16,800*	77.8	217.6	15,600*	81.1	214.3	14,300*			
140	80	80	71.6	215.8	16,400*	75.0	214.1	15,100*	78.3	210.8	14,000*			
140	80	90	68.8	211.8	15,800*	72.2	210.2	14,500*	75.4	206.8	13,600*			
140	80	100	66.0	207.3	15,200*	69.4	205.6	14,100*	72.5	202.1	12,700*			
140	80	110	63.1	202.1	14,700*	66.4	200.4	13,800*	69.5	196.8	11,900*			
140	80	120	60.1	196.3	14,200*	63.4	194.5	13,500*	66.5	190.8	11,300*			
140	80	130	57.0	189.8	13,900*	60.3	187.9	13,100*	63.3	184.1	10,700*			

HC-278H Tubular Jib Capacities - 360° Rotation - "ABCD" + "AB" Counterweights

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom								
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)
140	80	140	53.8	182.4	13,500*	57.1	180.4	12,800*	60.0	176.4	10,100*
140	80	150	50.4	174.1	13,100*	53.7	172.0	12,100*	56.5	167.8	9,700*
140	80	160	46.9	164.7	12,700*	50.1	162.5	11,500*	52.8	158.1	9,300*
140	80	170	43.1	154.1	12,300*	46.3	151.7	10,900*	48.9	146.9	8,900*
140	80	180	39.1	141.9	11,700*	42.1	139.3	10,400*			
140	80	190	34.6	127.6	11,100*	37.5	124.7	10,000*			
140	80	200	29.5	110.4	10,600*						
140	100	50	80.9	244.9	9,800*						
140	100	60	78.5	242.7	9,400*						
140	100	70	76.0	240.1	9,100*	80.0	238.2	8,300*			
140	100	80	73.6	237.0	8,700*	77.5	235.1	8,000*	81.3	231.3	7,400*
140	100	90	71.1	233.4	8,400*	75.0	231.5	7,800*	78.8	227.6	7,200*
140	100	100	68.5	229.3	8,100*	72.4	227.3	7,500*	76.1	223.4	7,100*
140	100	110	65.9	224.6	7,800*	69.8	222.7	7,300*	73.5	218.7	6,900*
140	100	120	63.2	219.4	7,600*	67.1	217.4	7,100*	70.7	213.3	6,700*
140	100	130	60.5	213.6	7,300*	64.3	211.5	6,900*	67.9	207.3	6,500*
140	100	140	57.7	207.1	7,200*	61.5	205.0	6,700*	65.0	200.6	6,300*
140	100	150	54.7	199.9	7,000*	58.5	197.6	6,500*	62.0	193.1	6,100*
140	100	160	51.7	191.8	6,700*	55.5	189.5	6,300*	58.8	184.8	5,800*
140	100	170	48.5	182.9	6,500*	52.2	180.4	6,100*	55.5	175.4	5,300*
140	100	180	45.2	172.8	6,300*	48.8	170.2	5,800*	52.0	164.9	4,900*
140	100	190	41.6	161.4	6,100*	45.2	158.6	5,300*	48.2	152.9	4,400*
140	100	200	37.7	148.4	5,600*	41.2	145.3	4,800*			
140	100	210	33.4	133.3	5,100*	36.8	129.8	4,200*			
140	100	220	28.5	115.2	4,400*						
160	30	35	81.3	197.0	40,000*						
160	30	40	79.7	196.1	40,000*	81.2	195.3	40,000*			
160	30	50	76.7	193.8	40,000*	78.2	193.0	40,000*	79.6	191.5	40,000*
160	30	60	73.6	191.0	40,000*	75.1	190.2	40,000*	76.4	188.6	40,000*
160	30	70	70.4	187.6	40,000*	71.9	186.8	40,000*	73.2	185.2	40,000*
160	30	80	67.2	183.6	40,000*	68.7	182.8	40,000*	70.0	181.1	37,900*
160	30	90	63.9	178.9	40,000*	65.4	178.0	40,000*	66.6	176.3	36,600*
160	30	100	60.5	173.5	40,000*	62.0	172.6	40,000*	63.2	170.8	36,600*
160	30	110	57.0	167.2	40,000*	58.4	166.3	39,500*	59.6	164.4	36,200*
160	30	120	53.4	160.1	35,600	54.7	159.1	35,900	55.9	157.2	34,400*
160	30	130	49.5	151.9	31,700	50.9	150.8	31,900	52.0	148.8	32,100
160	30	140	45.4	142.4	28,400	46.7	141.3	28,500	47.8	139.2	28,700
160	30	150	41.0	131.5	25,600	42.3	130.3	25,700			
160	30	160	36.1	118.6	23,200	37.4	117.3	23,200			
160	30	170	30.6	103.0	21,000						
160	40	35	81.9	207.1	36,000*						
160	40	40	80.5	206.2	36,000*						
160	40	50	77.6	204.1	36,000*	79.5	203.1	35,600*	81.3	201.1	34,600*
160	40	60	74.7	201.4	36,000*	76.6	200.4	35,200*	78.3	198.4	34,400*
160	40	70	71.7	198.2	35,900*	73.6	197.2	34,900*	75.3	195.1	34,300*
160	40	80	68.7	194.4	35,500*	70.5	193.4	34,600*	72.2	191.3	32,000*
160	40	90	65.6	190.0	35,100*	67.4	188.9	34,400*	69.0	186.8	30,000*
160	40	100	62.4	184.9	34,700*	64.2	183.8	33,800*	65.8	181.6	28,200*
160	40	110	59.1	179.1	33,000*	60.9	177.9	32,100*	62.5	175.6	26,700*
160	40	120	55.7	172.4	31,200*	57.5	171.2	30,400*	59.0	168.9	25,400*
160	40	130	52.2	164.9	29,500*	53.9	163.6	28,900*	55.4	161.1	24,200*
160	40	140	48.4	156.3	27,900*	50.1	155.0	27,500*	51.5	152.3	23,200*
160	40	150	44.4	146.4	26,000	46.1	145.0	26,100	47.4	142.2	22,400*

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom								
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)
160	40	160	40.2	135.1	23,500	41.8	133.5	23,600			
160	40	170	35.4	121.7	21,400	37.0	120.0	21,400			
160	40	180	30.0	105.5	19,500						
160	60	40	81.8	226.5	26,900*						
160	60	50	79.2	224.6	26,700*	81.8	223.2	26,100*			
160	60	60	76.5	222.2	26,500*	79.1	220.8	25,500*	81.6	218.0	23,900*
160	60	70	73.8	219.3	26,300*	76.4	217.9	24,900*	78.8	215.1	22,300*
160	60	80	71.1	215.8	26,000*	73.7	214.4	24,300*	76.1	211.6	20,800*
160	60	90	68.4	211.9	25,300*	70.9	210.4	23,800*	73.2	207.6	19,400*
160	60	100	65.5	207.3	24,700*	68.0	205.9	23,400*	70.3	202.9	18,200*
160	60	110	62.6	202.2	23,900*	65.1	200.7	22,600*	67.4	197.6	17,200*
160	60	120	59.6	196.4	22,400*	62.1	194.8	21,100*	64.3	191.7	16,300*
160	60	130	56.6	189.8	21,000*	59.0	188.2	19,800*	61.1	184.9	15,500*
160	60	140	53.3	182.4	19,700*	55.8	180.7	18,700*	57.9	177.4	14,900*
160	60	150	50.0	174.1	18,500*	52.4	172.4	17,700*	54.4	168.8	14,300*
160	60	160	46.5	164.8	17,500*	48.8	162.9	16,800*	50.7	159.1	13,700*
160	60	170	42.7	154.1	16,500*	45.0	152.1	16,000*	46.8	148.0	13,300*
160	60	180	38.6	141.9	15,700*	40.9	139.7	15,400*			
160	60	190	34.1	127.7	14,900*	36.3	125.2	14,800*			
160	60	200	29.0	110.5	14,200*						
160	80	50	80.5	244.9	17,700*						
160	80	60	78.1	242.7	17,400*	81.3	241.1	16,300*			
160	80	70	75.6	240.1	17,000*	78.8	238.4	15,800*	81.8	235.0	14,400*
160	80	80	73.2	237.0	16,600*	76.3	235.3	15,300*	79.3	231.9	14,100*
160	80	90	70.6	233.4	16,200*	73.8	231.7	14,800*	76.7	228.2	13,900*
160	80	100	68.1	229.3	15,700*	71.2	227.5	14,400*	74.1	224.0	13,200*
160	80	110	65.5	224.7	15,100*	68.6	222.9	14,100*	71.4	219.2	12,400*
160	80	120	62.8	219.5	14,600*	65.9	217.6	13,800*	68.7	213.9	11,700*
160	80	130	60.1	213.6	14,200*	63.1	211.7	13,400*	65.9	207.9	11,100*
160	80	140	57.3	207.2	13,900*	60.3	205.2	13,100*	63.0	201.2	10,600*
160	80	150	54.3	199.9	13,600*	57.3	197.9	12,800*	60.0	193.8	10,100*
160	80	160	51.3	191.9	13,000*	54.3	189.7	12,200*	56.8	185.4	9,600*
160	80	170	48.1	182.9	12,300*	51.0	180.6	11,600*	53.5	176.1	8,900*
160	80	180	44.8	172.8	11,600*	47.6	170.4	11,100*	50.0	165.6	8,200*
160	80	190	41.2	161.4	11,000*	44.0	158.9	10,600*	46.3	153.7	7,500*
160	80	200	37.3	148.4	10,400*	40.0	145.6	10,200*			
160	80	210	33.0	133.3	9,900*	35.7	130.2	9,800*			
160	80	220	28.1	115.2	9,500*						
160	100	50	81.6	265.3	9,900*						
160	100	60	79.4	263.2	9,600*						
160	100	70	77.1	260.8	9,200*	80.8	258.9	8,300*			
160	100	80	74.9	258.0	8,900*	78.5	256.0	8,100*			
160	100	90	72.6	254.7	8,500*	76.2	252.7	7,900*	79.7	248.7	7,300*
160	100	100	70.2	250.9	8,300*	73.9	248.9	7,600*	77.3	244.9	7,100*
160	100	110	67.9	246.7	8,000*	71.5	244.7	7,400*	74.9	240.5	7,000*
160	100	120	65.4	242.0	7,800*	69.0	239.9	7,200*	72.4	235.7	6,800*
160	100	130	63.0	236.8	7,500*	66.5	234.6	7,100*	69.9	230.3	6,600*
160	100	140	60.4	230.9	7,300*	64.0	228.7	6,900*	67.2	224.3	6,400*
160	100	150	57.8	224.5	7,200*	61.4	222.2	6,700*	64.6	217.7	6,300*
160	100	160	55.2	217.4	7,000*	58.7	215.0	6,500*	61.8	210.3	6,100*
160	100	170	52.4	209.5	6,800*	55.8	207.1	6,300*	58.9	202.2	5,700*
160	100	180	49.5	200.9	6,600*	52.9	198.3	6,100*	55.9	193.2	5,200*
160	100	190	46.5	191.2	6,400*	49.8	188.5	5,900*	52.7	183.1	4,800*

HC-278H Tubular Jib Capacities - 360° Rotation - "ABCD" + "AB" Counterweights

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom								
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)
160	100	200	43.2	180.5	6,200*	46.6	177.6	5,500*	49.4	171.8	4,500*
160	100	210	39.8	168.4	5,900*	43.1	165.3	5,000*	45.8	159.1	4,100*
160	100	220	36.1	154.7	5,400*	39.3	151.3	4,500*			
160	100	230	32.0	138.8	4,900*	35.1	135.0	4,000*			
160	100	240	27.3	119.8	4,300*						
180	30	40	80.7	216.4	40,000*						
180	30	50	78.0	214.4	40,000*	79.3	213.6	40,000*	80.6	212.0	40,000*
180	30	60	75.2	211.9	40,000*	76.5	211.1	40,000*	77.8	209.4	40,000*
180	30	70	72.4	208.8	40,000*	73.7	208.0	40,000*	74.9	206.4	40,000*
180	30	80	69.5	205.2	40,000*	70.8	204.4	40,000*	72.0	202.7	39,400*
180	30	90	66.6	201.0	40,000*	67.9	200.2	40,000*	69.0	198.5	37,100*
180	30	100	63.6	196.2	40,000*	64.9	195.4	40,000*	66.0	193.6	36,600*
180	30	110	60.5	190.8	39,300	61.8	189.9	39,600	62.9	188.1	36,600*
180	30	120	57.3	184.6	35,000	58.6	183.6	35,200	59.7	181.8	35,600
180	30	130	54.0	177.6	31,000	55.3	176.6	31,300	56.3	174.7	31,500
180	30	140	50.6	169.6	27,700	51.8	168.6	27,900	52.8	166.6	28,100
180	30	150	47.0	160.7	24,900	48.1	159.6	25,000	49.1	157.4	25,200
180	30	160	43.1	150.4	22,500	44.3	149.2	22,600	45.1	146.9	22,700
180	30	170	38.9	138.6	20,300	40.0	137.3	20,400			
180	30	180	34.3	124.8	18,500	35.4	123.4	18,500			
180	30	190	29.1	108.2	16,800						
180	40	40	81.4	226.5	36,000*						
180	40	50	78.7	224.6	36,000*	80.5	223.6	35,800*			
180	40	60	76.1	222.2	36,000*	77.8	221.2	35,400*	79.4	219.1	34,500*
180	40	70	73.4	219.3	36,000*	75.1	218.3	35,100*	76.7	216.2	34,400*
180	40	80	70.7	215.9	35,800*	72.4	214.8	34,700*	73.9	212.7	33,300*
180	40	90	67.9	211.9	35,400*	69.6	210.8	34,500*	71.1	208.7	31,200*
180	40	100	65.1	207.4	35,000*	66.7	206.3	33,500*	68.2	204.1	29,400*
180	40	110	62.2	202.2	32,800*	63.8	201.1	31,700*	65.3	198.8	27,900*
180	40	120	59.2	196.4	30,900*	60.8	195.2	30,000*	62.2	192.9	26,500*
180	40	130	56.1	189.8	29,200*	57.7	188.6	28,500*	59.1	186.2	25,300*
180	40	140	52.9	182.5	27,600*	54.5	181.2	27,100*	55.8	178.7	24,300*
180	40	150	49.6	174.2	25,300	51.1	172.9	25,500	52.4	170.2	23,400*
180	40	160	46.0	164.8	22,800	47.6	163.4	23,000	48.8	160.6	22,600*
180	40	170	42.3	154.2	20,700	43.8	152.7	20,800			
180	40	180	38.2	142.0	18,800	39.6	140.3	18,900			
180	40	190	33.7	127.7	17,100	35.1	125.9	17,200			
180	40	200	28.6	110.6	15,600						
180	60	50	80.1	245.0	26,800*						
180	60	60	77.7	242.8	26,600*	80.0	241.4	25,700*			
180	60	70	75.2	240.1	26,400*	77.6	238.7	25,200*	79.8	235.9	22,900*
180	60	80	72.7	237.0	26,200*	75.1	235.6	24,600*	77.3	232.7	21,400*
180	60	90	70.2	233.4	25,800*	72.6	232.0	24,100*	74.7	229.0	20,000*
180	60	100	67.7	229.3	25,200*	70.0	227.8	23,700*	72.1	224.9	18,900*
180	60	110	65.1	224.7	23,800*	67.4	223.2	22,900*	69.5	220.1	17,900*
180	60	120	62.4	219.5	22,300*	64.7	217.9	21,500*	66.7	214.8	17,000*
180	60	130	59.7	213.7	20,900*	61.9	212.1	20,300*	63.9	208.9	16,200*
180	60	140	56.8	207.2	19,600*	59.1	205.5	19,100*	61.0	202.2	15,500*
180	60	150	53.9	200.0	18,400*	56.1	198.2	18,000*	58.0	194.8	14,900*
180	60	160	50.9	191.9	17,400*	53.1	190.1	17,100*	54.9	186.5	14,300*
180	60	170	47.7	182.9	16,400*	49.9	181.0	16,100*	51.6	177.2	13,500*
180	60	180	44.4	172.9	15,500*	46.5	170.8	15,400*	48.2	166.8	12,200*
180	60	190	40.8	161.5	14,700*	42.8	159.3	14,600*			

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom								
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)
180	60	200	36.9	148.5	14,000*	38.9	146.1	13,900*			
180	60	210	32.6	133.4	13,300*						
180	60	220	27.7	115.3	12,800*						
180	80	50	81.2	265.3	17,800*						
180	80	60	79.0	263.3	17,500*	82.0	261.5	16,400*			
180	80	70	76.8	260.8	17,200*	79.7	259.1	16,000*			
180	80	80	74.5	258.0	16,800*	77.4	256.2	15,500*	80.2	252.7	14,200*
180	80	90	72.2	254.7	16,500*	75.1	252.9	15,100*	77.8	249.3	14,000*
180	80	100	69.9	251.0	16,000*	72.7	249.1	14,600*	75.4	245.5	13,500*
180	80	110	67.5	246.7	15,500*	70.3	244.9	14,300*	73.0	241.2	12,800*
180	80	120	65.1	242.0	15,100*	67.9	240.1	14,000*	70.5	236.4	12,100*
180	80	130	62.6	236.8	14,600*	65.4	234.8	13,700*	68.0	231.0	11,500*
180	80	140	60.1	231.0	14,200*	62.9	229.0	13,400*	65.4	225.0	11,000*
180	80	150	57.5	224.5	13,800*	60.3	222.5	13,100*	62.7	218.4	10,000*
180	80	160	54.8	217.4	13,000*	57.5	215.3	12,700*	60.0	211.1	9,000*
180	80	170	52.0	209.6	12,200*	54.7	207.4	12,000*	57.1	203.0	8,300*
180	80	180	49.1	200.9	11,500*	51.8	198.6	11,300*	54.1	194.0	7,600*
180	80	190	46.1	191.3	10,900*	48.7	188.8	10,400*	51.0	184.0	7,000*
180	80	200	42.9	180.5	10,300*	45.5	178.0	9,800*	47.6	172.8	6,400*
180	80	210	39.4	168.4	9,800*	42.0	165.7	9,000*			
180	80	220	35.7	154.7	9,300*	38.2	151.7	8,500*			
180	80	230	31.6	138.8	8,900*						
180	80	240	26.9	119.8	8,500*						
180	100	60	80.2	283.7	9,700*						
180	100	70	78.1	281.4	9,400*	81.5	279.4	8,400*			
180	100	80	76.0	278.8	9,000*	79.4	276.8	8,200*			
180	100	90	73.8	275.8	8,700*	77.2	273.7	8,000*	80.5	269.6	7,300*
180	100	100	71.7	272.3	8,400*	75.1	270.2	7,800*	78.3	266.1	7,200*
180	100	110	69.5	268.5	8,200*	72.9	266.3	7,500*	76.1	262.1	7,000*
180	100	120	67.3	264.1	8,000*	70.7	262.0	7,400*	73.8	257.7	6,900*
180	100	130	65.1	259.4	7,800*	68.4	257.2	7,200*	71.5	252.8	6,700*
180	100	140	62.8	254.1	7,500*	66.1	251.8	7,000*	69.1	247.3	6,600*
180	100	150	60.4	248.2	7,300*	63.7	245.9	6,900*	66.7	241.3	6,400*
180	100	160	58.0	241.9	7,200*	61.3	239.5	6,700*	64.2	234.8	5,900*
180	100	170	55.5	234.9	7,000*	58.8	232.4	6,500*	61.7	227.5	5,400*
180	100	180	53.0	227.2	6,800*	56.2	224.7	6,400*	59.0	219.6	5,000*
180	100	190	50.3	218.7	6,700*	53.5	216.1	6,200*	56.3	210.8	4,600*
180	100	200	47.5	209.5	6,500*	50.7	206.7	6,000*	53.4	201.2	4,200*
180	100	210	44.6	199.2	6,300*	47.7	196.3	5,600*	50.3	190.5	3,800*
180	100	220	41.6	187.9	6,100*	44.6	184.8	5,200*	47.1	178.5	3,600*
180	100	230	38.3	175.1	5,700*	41.3	171.8	4,800*			
180	100	240	34.7	160.7	5,200*	37.6	157.0	4,300*			
180	100	250	30.8	144.0	4,700*						
180	100	260	26.2	124.2	4,100*						
200	30	40	81.5	236.7	40,000*						
200	30	50	79.0	234.8	40,000*	80.3	234.0	40,000*	81.4	232.4	40,000*
200	30	60	76.5	232.6	40,000*	77.7	231.7	40,000*	78.9	230.1	40,000*
200	30	70	73.9	229.8	40,000*	75.1	229.0	40,000*	76.3	227.3	40,000*
200	30	80	71.3	226.5	40,000*	72.5	225.7	40,000*	73.6	224.0	40,000*
200	30	90	68.7	222.8	40,000*	69.9	221.9	40,000*	71.0	220.2	38,500*
200	30	100	66.0	218.5	40,000*	67.2	217.6	40,000*	68.3	215.9	36,500*
200	30	110	63.3	213.6	38,600	64.4	212.7	39,000	65.5	210.9	36,600*
200	30	120	60.5	208.1	34,300	61.6	207.2	34,600	62.6	205.4	35,000

HC-278H Tubular Jib Capacities - 360° Rotation - "ABCD" + "AB" Counterweights

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom								
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)
200	30	130	57.6	201.9	30,300	58.7	201.0	30,600	59.7	199.1	30,900
200	30	140	54.6	195.0	27,000	55.7	194.1	27,300	56.6	192.1	27,500
200	30	150	51.4	187.3	24,200	52.6	186.3	24,400	53.5	184.3	24,600
200	30	160	48.2	178.7	21,800	49.3	177.6	21,900	50.2	175.5	22,100
200	30	170	44.7	169.0	19,600	45.8	167.8	19,700	46.7	165.6	19,900
200	30	180	41.1	158.0	17,700	42.1	156.7	17,800			
200	30	190	37.1	145.4	16,100	38.1	144.0	16,100			
200	30	200	32.7	130.7	14,600						
200	30	210	27.7	113.1	13,200						
200	40	50	79.7	245.0	36,000*	81.3	244.0	35,900*			
200	40	60	77.3	242.8	36,000*	78.8	241.8	35,500*	80.3	239.7	34,600*
200	40	70	74.8	240.2	36,000*	76.4	239.1	35,200*	77.8	237.0	34,400*
200	40	80	72.3	237.1	36,000*	73.9	236.0	34,900*	75.3	233.9	34,300*
200	40	90	69.8	233.5	35,700*	71.4	232.4	34,600*	72.8	230.2	32,400*
200	40	100	67.3	229.4	35,300*	68.8	228.3	32,900*	70.2	226.1	30,600*
200	40	110	64.7	224.8	32,300*	66.2	223.6	31,100*	67.5	221.4	29,000*
200	40	120	62.0	219.6	30,400*	63.5	218.4	29,500*	64.8	216.1	27,600*
200	40	130	59.3	213.7	28,700*	60.7	212.5	28,000*	62.0	210.2	26,400*
200	40	140	56.4	207.2	27,200*	57.9	206.0	26,500*	59.2	203.6	25,300*
200	40	150	53.5	200.0	24,500	55.0	198.7	24,800	56.2	196.2	23,600*
200	40	160	50.5	192.0	22,100	51.9	190.6	22,300	53.1	188.0	21,500*
200	40	170	47.3	183.0	19,900	48.7	181.6	20,100	49.8	178.8	19,700*
200	40	180	44.0	172.9	18,100	45.3	171.4	18,200	46.4	168.5	18,100*
200	40	190	40.4	161.6	16,400	41.7	160.0	16,500			
200	40	200	36.5	148.6	14,900	37.8	146.8	15,000			
200	40	210	32.2	133.5	13,500						
200	40	220	27.3	115.4	12,300						
200	60	50	80.9	265.3	26,900*						
200	60	60	78.6	263.3	26,700*	80.8	261.9	25,900*			
200	60	70	76.4	260.9	26,500*	78.6	259.4	25,400*	80.6	256.5	23,400*
200	60	80	74.1	258.0	26,300*	76.3	256.6	24,900*	78.3	253.6	21,900*
200	60	90	71.8	254.7	26,100*	74.0	253.2	24,400*	76.0	250.3	20,600*
200	60	100	69.5	251.0	25,200*	71.6	249.5	23,900*	73.6	246.5	19,500*
200	60	110	67.1	246.8	23,500*	69.2	245.2	22,600*	71.2	242.2	18,500*
200	60	120	64.7	242.1	22,000*	66.8	240.5	21,300*	68.7	237.4	17,600*
200	60	130	62.2	236.8	20,700*	64.3	235.2	20,000*	66.2	232.0	16,800*
200	60	140	59.7	231.0	19,400*	61.8	229.4	18,900*	63.6	226.1	15,900*
200	60	150	57.1	224.6	18,200*	59.2	222.9	17,800*	61.0	219.5	14,400*
200	60	160	54.4	217.5	17,200*	56.5	215.7	16,800*	58.2	212.2	13,400*
200	60	170	51.6	209.6	16,200*	53.7	207.8	15,900*	55.4	204.2	12,100*
200	60	180	48.7	200.9	15,300*	50.7	199.0	15,100*	52.4	195.2	11,200*
200	60	190	45.7	191.3	14,500*	47.7	189.3	14,300*	49.3	185.3	10,200*
200	60	200	42.5	180.6	13,800*	44.4	178.4	13,600*	45.9	174.2	9,500*
200	60	210	39.1	168.5	13,100*	40.9	166.2	12,600*			
200	60	220	35.4	154.8	12,500*	37.2	152.3	11,700*			
200	60	230	31.3	138.9	11,700						
200	60	240	26.6	119.9	10,700						
200	80	50	81.9	285.6	17,900*						
200	80	60	79.8	283.7	17,600*						
200	80	70	77.7	281.5	17,300*	80.4	279.7	16,100*			
200	80	80	75.6	278.8	17,000*	78.3	277.0	15,700*	80.9	273.4	14,300*
200	80	90	73.5	275.8	16,700*	76.2	274.0	15,300*	78.7	270.3	14,100*
200	80	100	71.3	272.4	16,300*	74.0	270.5	14,900*	76.5	266.8	13,800*

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom								
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)
200	80	110	69.2	268.5	15,900*	71.8	266.6	14,400*	74.3	262.9	13,100*
200	80	120	67.0	264.2	15,400*	69.6	262.3	14,200*	72.1	258.4	12,500*
200	80	130	64.7	259.4	15,000*	67.3	257.4	13,900*	69.8	253.5	11,400*
200	80	140	62.4	254.1	14,500*	65.0	252.1	13,700*	67.4	248.1	10,400*
200	80	150	60.1	248.3	13,700*	62.7	246.2	13,200*	65.0	242.2	9,300*
200	80	160	57.7	241.9	12,900*	60.2	239.8	12,300*	62.5	235.6	8,600*
200	80	170	55.2	234.9	12,100*	57.7	232.7	11,300*	60.0	228.4	7,700*
200	80	180	52.6	227.2	11,400*	55.1	225.0	10,400*	57.3	220.5	7,200*
200	80	190	50.0	218.8	10,800*	52.5	216.5	9,700*	54.6	211.8	6,500*
200	80	200	47.2	209.5	10,200*	49.7	207.1	8,900*	51.7	202.2	5,900*
200	80	210	44.3	199.3	9,600*	46.7	196.7	8,300*	48.7	191.5	5,500*
200	80	220	41.2	187.9	9,200*	43.6	185.2	7,800*	45.5	179.7	5,100*
200	80	230	37.9	175.2	8,700*	40.3	172.2	7,300*			
200	80	240	34.4	160.7	8,300*	36.6	157.5	6,700*			
200	80	250	30.4	144.1	8,000*						
200	80	260	25.9	124.2	7,700*						
200	100	60	80.8	304.1	9,800*						
200	100	70	78.9	302.0	9,500*						
200	100	80	76.9	299.5	9,200*	80.1	297.4	8,300*			
200	100	90	75.0	296.7	8,900*	78.1	294.6	8,100*	81.2	290.4	7,400*
200	100	100	73.0	293.5	8,600*	76.1	291.4	7,900*	79.1	287.1	7,300*
200	100	110	70.9	289.9	8,300*	74.1	287.8	7,700*	77.1	283.4	7,100*
200	100	120	68.9	286.0	8,100*	72.0	283.7	7,500*	75.0	279.3	7,000*
200	100	130	66.8	281.5	7,900*	69.9	279.3	7,300*	72.8	274.8	6,800*
200	100	140	64.7	276.7	7,700*	67.8	274.4	7,200*	70.7	269.9	6,700*
200	100	150	62.6	271.4	7,500*	65.7	269.0	7,000*	68.5	264.4	6,200*
200	100	160	60.4	265.6	7,300*	63.4	263.2	6,900*	66.2	258.4	5,700*
200	100	170	58.1	259.2	7,200*	61.2	256.8	6,700*	63.9	251.9	5,200*
200	100	180	55.8	252.3	7,000*	58.8	249.8	6,600*	61.5	244.8	4,700*
200	100	190	53.5	244.8	6,900*	56.4	242.2	6,400*	59.1	237.0	4,300*
200	100	200	51.0	236.5	6,700*	54.0	233.9	6,000*	56.5	228.5	3,900*
200	100	210	48.5	227.6	6,500*	51.4	224.8	5,600*	53.9	219.1	3,600*
200	100	220	45.8	217.7	6,300*	48.7	214.8	5,100*	51.1	208.9	3,300*
200	100	230	43.0	206.9	6,200*	45.9	203.8	4,800*	48.2	197.6	3,000*
200	100	240	40.0	194.9	6,000*	42.8	191.6	4,500*	45.1	185.0	2,900*
200	100	250	36.9	181.6	5,500*	39.6	178.0	4,300*			
200	100	260	33.4	166.5	5,100*	36.1	162.6	4,000*			
200	100	270	29.6	149.1	4,600*						
200	100	280	25.3	128.4	4,000*						
220	30	50	79.9	255.2	40,000*	81.0	254.4	40,000*			
220	30	60	77.6	253.1	40,000*	78.7	252.3	40,000*	79.8	250.7	40,000*
220	30	70	75.2	250.6	40,000*	76.4	249.8	40,000*	77.4	248.1	40,000*
220	30	80	72.9	247.6	40,000*	74.0	246.8	40,000*	75.0	245.1	40,000*
220	30	90	70.5	244.2	40,000*	71.6	243.3	40,000*	72.6	241.7	39,700*
220	30	100	68.0	240.3	40,000*	69.1	239.4	40,000*	70.1	237.7	37,700*
220	30	110	65.5	235.9	37,800	66.6	235.0	38,300	67.6	233.2	35,000*
220	30	120	63.0	230.9	33,600	64.1	230.0	34,000	65.0	228.2	32,200*
220	30	130	60.4	225.4	29,600	61.5	224.5	30,000	62.4	222.6	29,400*
220	30	140	57.8	219.3	26,300	58.8	218.3	26,600	59.7	216.4	26,900
220	30	150	55.0	212.5	23,500	56.1	211.5	23,700	56.9	209.5	24,000
220	30	160	52.2	204.9	21,000	53.2	203.9	21,200	54.0	201.9	21,500
220	30	170	49.2	196.6	18,900	50.2	195.5	19,000	51.0	193.4	19,200
220	30	180	46.1	187.3	17,000	47.1	186.1	17,100	47.9	183.9	17,300
220	30	190	42.8	176.9	15,300	43.8	175.7	15,400			

HC-278H Tubular Jib Capacities - 360° Rotation - "ABCD" + "AB" Counterweights

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom								
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)
220	30	200	39.3	165.2	13,800	40.3	163.9	13,900			
220	30	210	35.5	151.8	12,500	36.4	150.4	12,500			
220	30	220	31.3	136.3	11,300						
220	30	230	26.6	117.8	10,200						
220	40	50	80.5	265.4	36,000*	81.9	264.3	35,900*			
220	40	60	78.2	263.3	36,000*	79.7	262.3	35,700*	81.1	260.2	34,600*
220	40	70	76.0	260.9	36,000*	77.4	259.9	35,400*	78.8	257.7	34,500*
220	40	80	73.7	258.1	36,000*	75.2	257.0	35,100*	76.5	254.9	34,300*
220	40	90	71.4	254.8	35,500*	72.9	253.7	34,000*	74.2	251.5	32,900*
220	40	100	69.1	251.1	33,400*	70.5	249.9	32,100*	71.8	247.7	31,100*
220	40	110	66.7	246.8	31,500*	68.1	245.7	30,300*	69.4	243.5	29,200*
220	40	120	64.3	242.1	29,700*	65.7	241.0	28,700*	67.0	238.7	26,700*
220	40	130	61.8	236.9	28,000*	63.2	235.7	27,200*	64.4	233.4	24,500*
220	40	140	59.3	231.1	26,500*	60.7	229.9	25,800*	61.9	227.5	22,200*
220	40	150	56.7	224.6	23,800	58.1	223.4	24,200	59.2	220.9	20,200*
220	40	160	54.0	217.5	21,400	55.4	216.2	21,700	56.5	213.7	18,500*
220	40	170	51.3	209.7	19,200	52.6	208.3	19,500	53.7	205.7	17,200*
220	40	180	48.4	201.0	17,300	49.7	199.6	17,500	50.7	196.8	15,800*
220	40	190	45.3	191.4	15,600	46.6	189.9	15,800	47.6	187.0	14,500*
220	40	200	42.1	180.6	14,100	43.4	179.1	14,300			
220	40	210	38.7	168.6	12,800	39.9	166.9	12,900			
220	40	220	35.0	154.9	11,600	36.2	153.0	11,600			
220	40	230	30.9	139.0	10,500						
220	40	240	26.2	120.0	9,500						
220	60	50	81.5	285.6	26,900*						
220	60	60	79.4	283.7	26,700*	81.5	282.3	26,000*			
220	60	70	77.4	281.5	26,600*	79.4	280.0	25,600*	81.3	277.1	23,900*
220	60	80	75.3	278.9	26,400*	77.3	277.4	25,100*	79.2	274.4	22,400*
220	60	90	73.1	275.8	26,200*	75.2	274.3	24,600*	77.0	271.3	21,100*
220	60	100	71.0	272.4	24,800*	73.0	270.9	23,700*	74.8	267.8	20,000*
220	60	110	68.8	268.5	23,200*	70.8	267.0	22,200*	72.6	263.9	19,000*
220	60	120	66.6	264.2	21,700*	68.6	262.6	20,900*	70.4	259.5	17,800*
220	60	130	64.4	259.4	20,300*	66.3	257.8	19,600*	68.1	254.6	16,200*
220	60	140	62.1	254.1	19,100*	64.0	252.5	18,500*	65.7	249.2	14,600*
220	60	150	59.7	248.3	18,000*	61.6	246.6	17,500*	63.3	243.3	13,300*
220	60	160	57.3	241.9	16,900*	59.2	240.2	16,300*	60.9	236.8	12,100*
220	60	170	54.8	234.9	15,900*	56.7	233.2	15,000*	58.3	229.6	11,000*
220	60	180	52.3	227.3	15,100*	54.1	225.4	13,800*	55.7	221.7	10,100*
220	60	190	49.6	218.8	14,300*	51.5	216.9	12,800*	53.0	213.1	9,300*
220	60	200	46.8	209.6	13,500*	48.7	207.6	11,800*	50.1	203.5	8,500*
220	60	210	43.9	199.3	12,800*	45.7	197.2	10,900*	47.2	193.0	7,800*
220	60	220	40.9	188.0	12,100	42.6	185.7	10,300*			
220	60	230	37.6	175.2	11,000	39.3	172.8	9,500*			
220	60	240	34.0	160.8	10,000	35.7	158.2	8,900*			
220	60	250	30.1	144.2	9,000						
220	60	260	25.6	124.3	8,200						
220	80	60	80.5	304.1	17,700*						
220	80	70	78.5	302.0	17,400*	81.1	300.2	16,300*			
220	80	80	76.6	299.6	17,100*	79.1	297.7	15,900*	81.5	294.0	14,400*
220	80	90	74.6	296.7	16,800*	77.2	294.9	15,500*	79.5	291.2	14,200*
220	80	100	72.6	293.6	16,500*	75.1	291.7	15,100*	77.5	287.9	13,900*
220	80	110	70.6	290.0	16,200*	73.1	288.1	14,700*	75.4	284.3	13,100*
220	80	120	68.6	286.0	15,800*	71.1	284.0	14,300*	73.4	280.2	11,800*

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom								
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)
220	80	130	66.5	281.6	15,400*	69.0	279.6	14,100*	71.2	275.7	10,600*
220	80	140	64.4	276.7	14,400*	66.9	274.7	13,500*	69.1	270.7	9,700*
220	80	150	62.3	271.4	13,500*	64.7	269.4	12,300*	66.9	265.3	8,600*
220	80	160	60.1	265.6	12,700*	62.5	263.5	11,400*	64.6	259.3	7,900*
220	80	170	57.8	259.3	11,900*	60.2	257.1	10,400*	62.3	252.8	7,100*
220	80	180	55.5	252.3	11,300*	57.9	250.1	9,600*	60.0	245.7	6,600*
220	80	190	53.1	244.8	10,600*	55.5	242.5	8,800*	57.5	238.0	5,900*
220	80	200	50.7	236.6	10,000*	53.0	234.2	8,200*	55.0	229.5	5,500*
220	80	210	48.1	227.6	9,500*	50.4	225.2	7,600*	52.4	220.2	5,100*
220	80	220	45.5	217.8	9,000*	47.7	215.2	7,000*	49.6	210.0	4,600*
220	80	230	42.7	207.0	8,600*	44.9	204.2	6,500*	46.7	198.8	4,300*
220	80	240	39.7	195.0	8,100*	41.9	192.1	6,100*			
220	80	250	36.6	181.6	7,700*	38.7	178.5	5,700*			
220	80	260	33.1	166.5	7,200*	35.2	163.1	5,300*			
220	80	270	29.3	149.1	6,800*						
220	100	60	81.4	324.4	9,900*						
220	100	70	79.6	322.4	9,600*						
220	100	80	77.8	320.1	9,300*	80.7	318.0	8,300*			
220	100	90	75.9	317.5	9,000*	78.9	315.3	8,100*	81.7	311.0	7,400*
220	100	100	74.1	314.5	8,800*	77.0	312.3	8,000*	79.8	308.0	7,300*
220	100	110	72.2	311.2	8,500*	75.1	309.0	7,800*	77.9	304.6	7,200*
220	100	120	70.3	307.5	8,300*	73.2	305.3	7,600*	76.0	300.8	7,000*
220	100	130	68.4	303.4	8,100*	71.3	301.1	7,400*	74.0	296.6	6,900*
220	100	140	66.4	298.9	7,900*	69.3	296.6	7,300*	72.0	292.0	6,500*
220	100	150	64.4	294.0	7,700*	67.3	291.7	7,100*	70.0	287.0	5,800*
220	100	160	62.4	288.7	7,500*	65.3	286.3	7,000*	67.9	281.5	5,300*
220	100	170	60.4	282.9	7,300*	63.2	280.4	6,900*	65.8	275.5	4,800*
220	100	180	58.3	276.6	7,200*	61.1	274.1	6,500*	63.6	269.0	4,400*
220	100	190	56.1	269.7	7,000*	58.9	267.2	6,000*	61.4	262.0	4,000*
220	100	200	53.9	262.3	6,900*	56.7	259.7	5,600*	59.1	254.4	3,700*
220	100	210	51.6	254.3	6,700*	54.4	251.5	5,200*	56.8	246.0	3,300*
220	100	220	49.2	245.6	6,500*	52.0	242.7	4,800*	54.3	237.0	3,100*
220	100	230	46.8	236.1	6,100*	49.5	233.1	4,500*	51.8	227.1	2,800*
220	100	240	44.2	225.7	5,800*	46.9	222.6	4,200*	49.1	216.3	2,600*
220	100	250	41.5	214.3	5,400*	44.2	211.0	3,900*	46.3	204.4	2,400*
220	100	260	38.7	201.8	5,100*	41.3	198.3	3,600*			
220	100	270	35.6	187.8	4,800*	38.2	184.0	3,400*			
220	100	280	32.3	172.1	4,500*						
220	100	290	28.6	154.0	4,300*						
240	30	50	80.6	275.5	40,000*	81.7	274.7	40,000*			
240	30	60	78.5	273.6	40,000*	79.6	272.8	40,000*	80.5	271.1	40,000*
240	30	70	76.3	271.3	40,000*	77.4	270.4	40,000*	78.4	268.8	40,000*
240	30	80	74.2	268.5	40,000*	75.2	267.7	40,000*	76.2	266.0	40,000*
240	30	90	72.0	265.4	40,000*	73.0	264.5	40,000*	73.9	262.8	35,700*
240	30	100	69.7	261.8	40,000*	70.7	260.9	37,900*	71.7	259.2	32,700*
240	30	110	67.5	257.8	34,700*	68.5	256.9	32,800*	69.4	255.2	29,800*
240	30	120	65.1	253.3	32,100*	66.2	252.4	30,100*	67.0	250.6	27,300*
240	30	130	62.8	248.3	28,900	63.8	247.4	27,900*	64.7	245.5	25,000*
240	30	140	60.4	242.7	25,600	61.4	241.8	25,500*	62.2	239.9	22,900*
240	30	150	57.9	236.6	22,800	58.9	235.7	23,000	59.7	233.8	21,100*
240	30	160	55.4	229.9	20,300	56.4	228.9	20,500	57.2	227.0	19,100*
240	30	170	52.8	222.5	18,100	53.7	221.5	18,400	54.5	219.5	17,700*
240	30	180	50.1	214.4	16,300	51.0	213.3	16,400	51.8	211.2	16,400*
240	30	190	47.2	205.4	14,600	48.2	204.3	14,700	48.9	202.1	14,900

HC-278H Tubular Jib Capacities - 360° Rotation - "ABCD" + "AB" Counterweights

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom								
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)
240	30	200	44.3	195.5	13,100	45.2	194.3	13,200	45.9	192.0	13,300
240	30	210	41.1	184.4	11,700	42.0	183.2	11,800			
240	30	220	37.8	172.0	10,500	38.6	170.7	10,600			
240	30	230	34.1	158.0	9,400						
240	30	240	30.1	141.7	8,400						
240	30	250	25.5	122.3	7,500						
240	40	50	81.2	285.7	36,000*						
240	40	60	79.1	283.8	36,000*	80.5	282.7	35,700*	81.7	280.6	34,600*
240	40	70	77.0	281.6	36,000*	78.4	280.5	35,500*	79.6	278.4	34,500*
240	40	80	74.9	278.9	36,000*	76.3	277.8	35,200*	77.5	275.7	33,500*
240	40	90	72.8	275.9	34,200*	74.1	274.8	32,800*	75.4	272.6	30,900*
240	40	100	70.6	272.5	32,200*	72.0	271.3	31,000*	73.2	269.1	28,200*
240	40	110	68.5	268.6	30,400*	69.8	267.5	29,300*	71.0	265.2	25,700*
240	40	120	66.3	264.3	28,700*	67.6	263.1	26,800*	68.7	260.9	23,200*
240	40	130	64.0	259.5	26,900*	65.3	258.3	24,600*	66.5	256.0	21,100*
240	40	140	61.7	254.2	25,100*	63.0	253.0	22,600*	64.1	250.6	19,100*
240	40	150	59.4	248.4	23,100	60.6	247.2	20,900*	61.7	244.7	17,800*
240	40	160	57.0	242.0	20,600	58.2	240.7	19,300*	59.3	238.3	16,200*
240	40	170	54.5	235.0	18,500	55.7	233.7	17,600*	56.8	231.1	14,800*
240	40	180	51.9	227.3	16,600	53.2	226.0	16,300*	54.2	223.3	13,500*
240	40	190	49.3	218.9	14,900	50.5	217.5	15,100	51.5	214.7	12,400*
240	40	200	46.5	209.6	13,400	47.7	208.2	13,600	48.6	205.3	11,600*
240	40	210	43.6	199.4	12,000	44.8	197.9	12,200	45.7	194.8	10,600*
240	40	220	40.5	188.0	10,800	41.7	186.4	10,900			
240	40	230	37.2	175.3	9,700	38.4	173.6	9,800			
240	40	240	33.7	160.9	8,700						
240	40	250	29.7	144.3	7,800						
240	40	260	25.2	124.4	6,900						
240	60	60	80.2	304.1	26,800*						
240	60	70	78.2	302.0	26,600*	80.1	300.5	25,700*	81.9	297.6	23,900*
240	60	80	76.3	299.6	26,500*	78.2	298.1	25,300*	79.9	295.1	22,800*
240	60	90	74.3	296.8	25,800*	76.2	295.3	24,600*	77.9	292.2	21,600*
240	60	100	72.3	293.6	24,100*	74.2	292.1	23,100*	75.9	289.0	19,800*
240	60	110	70.3	290.0	22,600*	72.2	288.5	21,700*	73.9	285.4	17,800*
240	60	120	68.3	286.0	21,200*	70.1	284.4	20,400*	71.8	281.3	16,100*
240	60	130	66.2	281.6	19,800*	68.0	280.0	18,700*	69.7	276.8	14,600*
240	60	140	64.1	276.8	18,700*	65.9	275.1	17,200*	67.5	271.9	13,200*
240	60	150	61.9	271.5	17,500*	63.7	269.8	15,700*	65.3	266.5	11,900*
240	60	160	59.7	265.6	16,500*	61.5	263.9	14,400*	63.1	260.5	10,800*
240	60	170	57.5	259.3	15,600*	59.3	257.6	13,200*	60.8	254.1	10,000*
240	60	180	55.2	252.4	14,600*	56.9	250.6	12,200*	58.5	247.0	9,000*
240	60	190	52.8	244.9	13,400*	54.6	243.0	11,200*	56.0	239.3	8,300*
240	60	200	50.4	236.6	12,500*	52.1	234.7	10,300*	53.5	230.9	7,500*
240	60	210	47.8	227.7	11,700*	49.5	225.7	9,500*	50.9	221.7	7,000*
240	60	220	45.1	217.8	10,800*	46.8	215.7	8,900*	48.2	211.5	6,400*
240	60	230	42.4	207.0	10,000*	44.0	204.8	8,200*	45.3	200.4	6,000*
240	60	240	39.4	195.1	9,200	41.0	192.7	7,700*			
240	60	250	36.2	181.7	8,300	37.8	179.2	7,200*			
240	60	260	32.8	166.6	7,400						
240	60	270	29.0	149.2	6,600						
240	80	60	81.1	324.4	17,800*						
240	80	70	79.3	322.5	17,500*	81.7	320.6	16,400*			
240	80	80	77.4	320.2	17,300*	79.8	318.3	16,000*			

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom								
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)
240	80	90	75.6	317.6	17,000*	78.0	315.7	15,600*	80.2	311.9	14,200*
240	80	100	73.7	314.6	16,700*	76.1	312.7	15,300*	78.3	308.9	13,800*
240	80	110	71.9	311.3	16,400*	74.2	309.3	14,900*	76.4	305.5	12,300*
240	80	120	70.0	307.6	16,000*	72.3	305.6	14,500*	74.5	301.7	11,000*
240	80	130	68.1	303.5	15,100*	70.4	301.5	13,600*	72.5	297.5	9,900*
240	80	140	66.1	299.0	14,200*	68.4	297.0	12,300*	70.5	292.9	9,000*
240	80	150	64.1	294.1	13,300*	66.4	292.0	11,300*	68.5	287.9	8,000*
240	80	160	62.1	288.7	12,500*	64.4	286.6	10,300*	66.4	282.5	7,300*
240	80	170	60.1	282.9	11,700*	62.3	280.8	9,400*	64.3	276.5	6,700*
240	80	180	58.0	276.6	11,000*	60.2	274.4	8,800*	62.2	270.1	6,000*
240	80	190	55.8	269.8	10,200*	58.0	267.5	8,000*	60.0	263.0	5,600*
240	80	200	53.6	262.4	9,400*	55.8	260.1	7,300*	57.7	255.4	5,000*
240	80	210	51.3	254.3	8,800*	53.5	251.9	6,800*	55.4	247.2	4,600*
240	80	220	48.9	245.6	8,300*	51.1	243.1	6,300*	52.9	238.2	4,200*
240	80	230	46.5	236.1	7,600*	48.6	233.5	5,800*	50.4	228.3	3,900*
240	80	240	43.9	225.7	7,100*	46.0	223.0	5,300*	47.7	217.6	3,600*
240	80	250	41.2	214.4	6,700*	43.3	211.5	5,100*			
240	80	260	38.4	201.8	6,200*	40.4	198.8	4,700*			
240	80	270	35.3	187.9	5,800*	37.3	184.6	4,500*			
240	80	280	32.0	172.1	5,600*						
240	80	290	28.3	154.0	5,200*						
240	100	60	81.9	344.7	9,900*						
240	100	70	80.2	342.8	9,700*						
240	100	80	78.5	340.7	9,400*	81.3	338.5	8,400*			
240	100	90	76.8	338.2	9,200*	79.6	336.0	8,200*			
240	100	100	75.0	335.5	8,900*	77.8	333.2	8,000*	80.5	328.7	7,300*
240	100	110	73.3	332.3	8,600*	76.1	330.1	7,900*	78.7	325.6	7,200*
240	100	120	71.5	328.9	8,400*	74.3	326.6	7,700*	76.9	322.0	7,100*
240	100	130	69.7	325.1	8,200*	72.5	322.7	7,500*	75.0	318.1	6,800*
240	100	140	67.9	320.9	8,000*	70.6	318.5	7,400*	73.2	313.9	6,100*
240	100	150	66.0	316.3	7,900*	68.8	313.9	7,200*	71.3	309.2	5,600*
240	100	160	64.2	311.4	7,700*	66.9	309.0	7,100*	69.4	304.1	5,000*
240	100	170	62.3	306.0	7,500*	65.0	303.5	6,600*	67.4	298.6	4,500*
240	100	180	60.3	300.2	7,300*	63.0	297.7	6,100*	65.4	292.7	4,100*
240	100	190	58.4	293.9	7,200*	61.0	291.4	5,600*	63.4	286.2	3,700*
240	100	200	56.3	287.2	6,900*	59.0	284.5	5,200*	61.3	279.3	3,400*
240	100	210	54.3	279.8	6,400*	56.9	277.1	4,800*	59.2	271.7	3,100*
240	100	220	52.1	272.0	5,900*	54.7	269.2	4,400*	57.0	263.6	2,800*
240	100	230	49.9	263.4	5,500*	52.5	260.6	4,100*	54.7	254.8	2,600*
240	100	240	47.7	254.2	5,100*	50.2	251.2	3,800*	52.4	245.2	2,300*
240	100	250	45.3	244.2	4,800*	47.8	241.1	3,500*	49.9	234.8	2,200*
240	100	260	42.8	233.3	4,500*	45.3	230.1	3,300*	47.3	223.5	2,000*
240	100	270	40.2	221.5	4,300*	42.7	218.0	3,000*			
240	100	280	37.5	208.4	4,000*	39.9	204.7	2,800*			
240	100	290	34.5	193.8	3,700*	36.8	189.8	2,700*			
240	100	300	31.3	177.5	3,600*						
240	100	310	27.7	158.7	3,400*						
260	30	50	81.3	295.8	40,000*						
260	30	60	79.3	294.0	40,000*	80.3	293.2	40,000*	81.2	291.5	40,000*
260	30	70	77.3	291.9	40,000*	78.3	291.0	40,000*	79.2	289.4	39,900*
260	30	80	75.3	289.3	40,000*	76.2	288.5	39,400*	77.1	286.8	33,800*
260	30	90	73.2	286.4	38,000*	74.2	285.6	34,000*	75.1	283.9	31,000*
260	30	100	71.2	283.1	33,000*	72.1	282.2	31,100*	73.0	280.5	28,400*
260	30	110	69.1	279.4	30,200*	70.0	278.5	28,600*	70.9	276.8	26,000*

HC-278H Tubular Jib Capacities - 360° Rotation - "ABCD" + "AB" Counterweights

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom								
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)
260	30	120	67.0	275.2	28,000*	67.9	274.4	26,400*	68.7	272.6	23,900*
260	30	130	64.8	270.7	25,900*	65.7	269.8	24,300*	66.6	268.0	21,900*
260	30	140	62.6	265.6	23,600*	63.5	264.7	22,400*	64.3	262.8	20,300*
260	30	150	60.4	260.1	22,000	61.3	259.1	20,500*	62.1	257.2	18,500*
260	30	160	58.1	254.0	19,500	59.0	253.0	18,900*	59.8	251.1	16,900*
260	30	170	55.7	247.3	17,300	56.6	246.3	17,600	57.4	244.4	15,600*
260	30	180	53.3	240.1	15,400	54.2	239.0	15,700	54.9	237.0	14,400*
260	30	190	50.8	232.1	13,700	51.7	231.0	14,000	52.4	228.9	13,300*
260	30	200	48.2	223.4	12,200	49.1	222.3	12,500	49.7	220.1	12,400*
260	30	210	45.5	213.9	10,900	46.3	212.7	11,100	47.0	210.4	11,200
260	30	220	42.6	203.3	9,700	43.5	202.1	9,800			
260	30	230	39.6	191.7	8,600	40.4	190.4	8,700			
260	30	240	36.4	178.6	7,600	37.2	177.2	7,700			
260	30	250	32.9	163.9	6,600						
260	30	260	29.0	146.9	5,800						
260	40	50	81.7	305.9	36,000*						
260	40	60	79.8	304.2	36,000*	81.1	303.1	35,800*			
260	40	70	77.9	302.1	36,000*	79.2	301.0	35,600*	80.3	298.9	32,800*
260	40	80	75.9	299.6	36,000*	77.2	298.6	33,300*	78.4	296.4	29,900*
260	40	90	74.0	296.8	32,800*	75.2	295.7	30,400*	76.4	293.6	27,200*
260	40	100	72.0	293.6	30,200*	73.2	292.5	28,000*	74.4	290.3	24,600*
260	40	110	70.0	290.1	27,900*	71.2	288.9	25,700*	72.3	286.7	22,500*
260	40	120	67.9	286.1	25,700*	69.1	284.9	23,700*	70.3	282.7	20,300*
260	40	130	65.9	281.7	23,500*	67.1	280.5	21,700*	68.2	278.2	18,800*
260	40	140	63.7	276.8	21,900*	65.0	275.7	20,000*	66.0	273.3	17,000*
260	40	150	61.6	271.5	20,100*	62.8	270.3	18,400*	63.8	267.9	15,600*
260	40	160	59.4	265.7	18,500*	60.6	264.5	17,000*	61.6	262.0	14,400*
260	40	170	57.2	259.4	17,100*	58.3	258.1	15,400*	59.3	255.6	13,100*
260	40	180	54.9	252.5	15,800	56.0	251.2	14,300*	57.0	248.6	12,200*
260	40	190	52.5	244.9	14,100	53.6	243.6	13,200*	54.6	240.9	11,100*
260	40	200	50.0	236.7	12,600	51.2	235.3	12,400*	52.1	232.6	10,300*
260	40	210	47.5	227.7	11,200	48.6	226.3	11,500	49.5	223.4	9,600*
260	40	220	44.8	217.9	10,000	45.9	216.4	10,200	46.8	213.4	8,900*
260	40	230	42.0	207.1	8,900	43.1	205.5	9,100			
260	40	240	39.1	195.1	7,800	40.1	193.4	8,000			
260	40	250	35.9	181.8	6,900	36.9	180.0	7,100			
260	40	260	32.5	166.7	6,100						
260	40	270	28.7	149.3	5,300						
260	60	60	80.8	324.5	26,900*						
260	60	70	79.0	322.5	26,700*	80.7	321.0	25,900*			
260	60	80	77.1	320.2	26,600*	78.9	318.7	25,400*	80.6	315.7	22,100*
260	60	90	75.3	317.6	24,900*	77.1	316.1	23,900*	78.7	313.0	19,900*
260	60	100	73.4	314.6	23,300*	75.2	313.1	21,900*	76.8	310.0	18,100*
260	60	110	71.6	311.3	21,900*	73.3	309.7	19,800*	74.9	306.6	16,200*
260	60	120	69.7	307.6	20,600*	71.4	306.0	18,300*	73.0	302.8	14,700*
260	60	130	67.8	303.5	19,200*	69.5	301.9	16,600*	71.1	298.7	13,100*
260	60	140	65.8	299.0	17,900*	67.5	297.4	15,300*	69.1	294.1	12,000*
260	60	150	63.8	294.1	16,400*	65.5	292.5	13,900*	67.1	289.1	10,800*
260	60	160	61.8	288.8	15,100*	63.5	287.1	12,900*	65.0	283.7	9,800*
260	60	170	59.7	283.0	14,100*	61.4	281.2	11,800*	62.9	277.8	9,000*
260	60	180	57.6	276.7	12,800*	59.3	274.9	10,800*	60.8	271.4	8,200*
260	60	190	55.5	269.8	12,000*	57.1	268.0	9,900*	58.6	264.4	7,500*
260	60	200	53.3	262.4	11,200*	54.9	260.5	9,200*	56.3	256.8	6,900*
260	60	210	51.0	254.4	10,400*	52.6	252.4	8,600*	54.0	248.6	6,400*

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom								
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)
260	60	220	48.6	245.7	9,600*	50.2	243.6	8,000*	51.6	239.6	5,900*
260	60	230	46.2	236.2	8,900*	47.8	234.1	7,300*	49.0	229.9	5,400*
260	60	240	43.6	225.8	8,400	45.2	223.6	6,800*	46.4	219.2	5,100*
260	60	250	40.9	214.4	7,400	42.5	212.1	6,400*			
260	60	260	38.1	201.9	6,600	39.6	199.4	6,000*			
260	60	270	35.0	187.9	5,800	36.5	185.3	5,600*			
260	60	280	31.7	172.2	5,000						
260	60	290	28.0	154.1	4,400						
260	80	60	81.6	344.7	17,900*						
260	80	70	79.9	342.9	17,600*						
260	80	80	78.2	340.7	17,400*	80.4	338.8	16,100*			
260	80	90	76.5	338.3	17,100*	78.7	336.3	15,800*	80.8	332.5	14,200*
260	80	100	74.7	335.5	16,900*	77.0	333.5	15,400*	79.0	329.7	12,900*
260	80	110	73.0	332.4	16,600*	75.2	330.4	14,900*	77.3	326.5	11,400*
260	80	120	71.2	328.9	15,800*	73.4	326.9	13,500*	75.5	323.0	10,200*
260	80	130	69.4	325.1	14,800*	71.6	323.1	12,300*	73.6	319.1	9,200*
260	80	140	67.6	320.9	13,800*	69.8	318.9	11,300*	71.8	314.9	8,300*
260	80	150	65.8	316.4	12,800*	67.9	314.3	10,200*	69.9	310.2	7,500*
260	80	160	63.9	311.4	11,700*	66.0	309.3	9,500*	68.0	305.1	6,700*
260	80	170	62.0	306.1	10,800*	64.1	303.9	8,600*	66.1	299.7	6,200*
260	80	180	60.1	300.2	9,900*	62.2	298.1	7,800*	64.1	293.7	5,500*
260	80	190	58.1	294.0	9,300*	60.2	291.7	7,300*	62.1	287.3	5,000*
260	80	200	56.1	287.2	8,600*	58.2	284.9	6,700*	60.0	280.4	4,600*
260	80	210	54.0	279.9	7,900*	56.1	277.5	6,200*	57.9	272.9	4,200*
260	80	220	51.8	272.0	7,500*	53.9	269.6	5,800*	55.7	264.8	3,900*
260	80	230	49.6	263.5	6,900*	51.7	261.0	5,300*	53.4	256.0	3,500*
260	80	240	47.4	254.3	6,400*	49.4	251.7	4,900*	51.1	246.5	3,300*
260	80	250	45.0	244.3	6,000*	47.0	241.6	4,500*	48.6	236.2	3,000*
260	80	260	42.5	233.4	5,600*	44.5	230.6	4,300*	46.0	224.9	2,800*
260	80	270	39.9	221.5	5,300*	41.9	218.5	4,000*			
260	80	280	37.2	208.4	5,000*	39.1	205.2	3,800*			
260	80	290	34.2	193.9	4,700*	36.0	190.4	3,500*			
260	80	300	31.0	177.5	4,100						
260	80	310	27.4	158.8	3,600						
260	100	70	80.7	363.2	9,800*						
260	100	80	79.1	361.2	9,500*	81.8	358.9	8,400*			
260	100	90	77.5	358.9	9,300*	80.2	356.6	8,300*			
260	100	100	75.9	356.2	9,000*	78.5	354.0	8,100*	81.0	349.4	7,400*
260	100	110	74.2	353.3	8,800*	76.9	351.0	7,900*	79.3	346.4	7,300*
260	100	120	72.6	350.1	8,500*	75.2	347.7	7,800*	77.6	343.1	7,200*
260	100	130	70.9	346.5	8,300*	73.5	344.1	7,600*	75.9	339.5	6,400*
260	100	140	69.2	342.6	8,200*	71.8	340.2	7,400*	74.2	335.5	5,800*
260	100	150	67.5	338.3	8,000*	70.0	335.9	7,300*	72.4	331.1	5,200*
260	100	160	65.7	333.7	7,800*	68.3	331.3	6,800*	70.7	326.4	4,700*
260	100	170	63.9	328.7	7,600*	66.5	326.2	6,200*	68.8	321.3	4,200*
260	100	180	62.2	323.3	7,500*	64.7	320.8	5,700*	67.0	315.8	3,800*
260	100	190	60.3	317.5	6,800*	62.9	314.9	5,200*	65.1	309.8	3,400*
260	100	200	58.5	311.3	6,300*	61.0	308.6	4,800*	63.2	303.4	3,100*
260	100	210	56.5	304.6	5,900*	59.0	301.9	4,400*	61.3	296.5	2,800*
260	100	220	54.6	297.3	5,500*	57.1	294.6	4,000*	59.2	289.1	2,600*
260	100	230	52.6	289.6	5,100*	55.1	286.8	3,700*	57.2	281.1	2,300*
260	100	240	50.5	281.3	4,700*	53.0	278.3	3,500*	55.1	272.5	2,100*
260	100	250	48.4	272.3	4,400*	50.8	269.3	3,200*	52.9	263.2	2,000*
260	100	260	46.2	262.6	4,100*	48.6	259.5	3,000*			

HC-278H Tubular Jib Capacities - 360° Rotation - "ABCD" + "AB" Counterweights

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom								
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)
260	100	270	43.9	252.1	3,800*	46.3	248.9	2,800*			
260	100	280	41.5	240.8	3,600*	43.8	237.3	2,600*			
260	100	290	39.0	228.4	3,400*	41.3	224.7	2,500*			
260	100	300	36.3	214.7	3,200*	38.6	210.9	2,300*			
260	100	310	33.5	199.6	3,100*	35.6	195.5	2,100*			
260	100	320	30.3	182.7	2,900*						
260	100	330	26.9	163.3	2,800*						
280	30	50	81.9	316.1	40,000*						
280	30	60	80.0	314.4	40,000*	80.9	313.6	40,000*	81.8	311.9	38,100*
280	30	70	78.1	312.4	38,900*	79.0	311.5	34,500*	79.9	309.9	32,100*
280	30	80	76.2	310.0	33,400*	77.1	309.2	31,800*	78.0	307.5	29,700*
280	30	90	74.3	307.3	30,700*	75.2	306.4	29,200*	76.1	304.7	27,000*
280	30	100	72.4	304.2	28,400*	73.3	303.4	26,900*	74.1	301.6	24,900*
280	30	110	70.5	300.8	26,100*	71.4	299.9	24,600*	72.2	298.2	22,600*
280	30	120	68.5	296.9	23,900*	69.4	296.0	22,800*	70.2	294.3	20,800*
280	30	130	66.5	292.7	22,200*	67.4	291.8	20,800*	68.2	290.0	19,100*
280	30	140	64.5	288.0	20,200*	65.4	287.1	19,200*	66.1	285.3	17,300*
280	30	150	62.4	282.9	18,800*	63.3	282.0	17,800*	64.1	280.2	16,000*
280	30	160	60.3	277.4	17,200*	61.2	276.4	16,300*	61.9	274.5	14,700*
280	30	170	58.2	271.3	16,000*	59.0	270.3	15,000*	59.8	268.4	13,600*
280	30	180	56.0	264.7	14,700	56.8	263.7	13,800*	57.5	261.7	12,500*
280	30	190	53.7	257.6	13,000	54.6	256.5	12,800*	55.3	254.5	11,500*
280	30	200	51.4	249.8	11,500	52.2	248.7	11,700	52.9	246.6	10,800*
280	30	210	49.0	241.3	10,100	49.8	240.2	10,400	50.5	238.0	9,800*
280	30	220	46.5	232.1	8,900	47.3	230.9	9,100	47.9	228.7	9,300
280	30	230	43.9	222.0	7,800	44.7	220.8	8,000	45.3	218.4	8,100
280	30	240	41.2	210.9	6,800	41.9	209.6	6,900			
280	30	250	38.3	198.6	5,900	39.0	197.3	6,000			
280	30	260	35.2	185.0	5,000	35.9	183.5	5,100			
280	30	270	31.8	169.6	4,200						
280	30	280	28.1	151.9	3,500						
280	40	60	80.5	324.5	36,000*	81.7	323.4	35,900*			
280	40	70	78.7	322.6	33,600*	79.8	321.5	31,700*	80.9	319.3	29,000*
280	40	80	76.8	320.3	31,000*	78.0	319.2	29,100*	79.1	317.0	26,200*
280	40	90	75.0	317.7	28,600*	76.2	316.6	26,800*	77.2	314.4	24,000*
280	40	100	73.1	314.7	26,300*	74.3	313.6	24,500*	75.4	311.4	21,800*
280	40	110	71.3	311.4	24,100*	72.4	310.2	22,300*	73.5	308.0	19,700*
280	40	120	69.4	307.7	22,100*	70.5	306.5	20,600*	71.6	304.3	18,100*
280	40	130	67.4	303.6	20,400*	68.6	302.4	18,900*	69.6	300.1	16,500*
280	40	140	65.5	299.1	18,700*	66.6	297.9	17,400*	67.6	295.6	14,900*
280	40	150	63.5	294.2	17,400*	64.6	293.0	15,900*	65.6	290.6	13,900*
280	40	160	61.5	288.8	16,000*	62.6	287.6	14,500*	63.6	285.2	12,600*
280	40	170	59.4	283.0	14,700*	60.6	281.8	13,400*	61.5	279.3	11,600*
280	40	180	57.3	276.7	13,500*	58.4	275.5	12,400*	59.4	272.9	10,600*
280	40	190	55.2	269.9	12,600*	56.3	268.6	11,400*	57.2	266.0	9,700*
280	40	200	53.0	262.5	11,600*	54.1	261.1	10,500*	55.0	258.5	9,000*
280	40	210	50.7	254.4	10,400	51.8	253.1	9,900*	52.6	250.3	8,300*
280	40	220	48.3	245.7	9,200	49.4	244.3	9,200*	50.2	241.4	7,800*
280	40	230	45.9	236.2	8,100	46.9	234.7	8,300	47.7	231.8	7,100*
280	40	240	43.3	225.9	7,100	44.3	224.3	7,300	45.1	221.2	6,600*
280	40	250	40.6	214.5	6,100	41.6	212.9	6,400			
280	40	260	37.8	202.0	5,300	38.8	200.2	5,500			
280	40	270	34.7	188.0	4,500	35.7	186.1	4,700			
280	40	280	31.4	172.3	3,800						
280	40	290	27.7	154.2	3,100						

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom								
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)
280	60	60	81.3	344.8	26,900*						
280	60	70	79.6	342.9	26,800*	81.3	341.4	25,800*			
280	60	80	77.9	340.8	25,500*	79.6	339.2	23,600*	81.2	336.2	20,200*
280	60	90	76.2	338.3	23,800*	77.8	336.8	21,400*	79.4	333.7	18,000*
280	60	100	74.4	335.5	21,900*	76.1	334.0	19,500*	77.6	330.9	16,400*
280	60	110	72.7	332.4	20,100*	74.3	330.8	17,700*	75.9	327.7	14,700*
280	60	120	70.9	329.0	18,400*	72.6	327.4	16,400*	74.1	324.2	13,300*
280	60	130	69.1	325.2	17,000*	70.8	323.5	14,800*	72.2	320.3	11,900*
280	60	140	67.3	321.0	15,600*	68.9	319.3	13,600*	70.4	316.1	10,900*
280	60	150	65.5	316.4	14,300*	67.1	314.8	12,400*	68.5	311.5	9,800*
280	60	160	63.6	311.5	13,300*	65.2	309.8	11,300*	66.6	306.4	9,000*
280	60	170	61.7	306.1	12,100*	63.3	304.4	10,500*	64.7	301.0	8,100*
280	60	180	59.8	300.3	11,200*	61.3	298.5	9,600*	62.7	295.0	7,500*
280	60	190	57.8	294.0	10,400*	59.4	292.2	8,700*	60.7	288.7	6,700*
280	60	200	55.8	287.3	9,700*	57.3	285.4	8,200*	58.7	281.8	6,200*
280	60	210	53.7	279.9	9,000*	55.2	278.1	7,500*	56.5	274.3	5,700*
280	60	220	51.6	272.1	8,300*	53.1	270.1	7,000*	54.4	266.2	5,300*
280	60	230	49.4	263.5	7,700*	50.9	261.5	6,400*	52.1	257.5	4,800*
280	60	240	47.1	254.3	7,100*	48.6	252.3	5,900*	49.8	248.1	4,500*
280	60	250	44.7	244.3	6,600	46.2	242.2	5,600*	47.4	237.8	4,200*
280	60	260	42.2	233.5	5,800	43.7	231.2	5,200*			
280	60	270	39.6	221.6	5,000	41.1	219.2	4,900*			
280	60	280	36.9	208.5	4,300	38.3	205.9	4,500			
280	60	290	33.9	194.0	3,600	35.3	191.2	3,800			
280	60	300	30.7	177.6	3,000						
280	60	310	27.2	158.9	2,400						
280	80	70	80.5	363.3	17,700*						
280	80	80	78.9	361.2	17,500*	81.0	359.3	16,200*			
280	80	90	77.2	358.9	17,200*	79.3	357.0	15,900*	81.3	353.1	13,200*
280	80	100	75.6	356.3	17,000*	77.7	354.3	15,000*	79.7	350.4	11,800*
280	80	110	73.9	353.4	16,100*	76.0	351.4	13,700*	78.0	347.4	10,600*
280	80	120	72.3	350.1	14,700*	74.4	348.1	12,400*	76.3	344.1	9,500*
280	80	130	70.6	346.5	13,600*	72.7	344.5	11,300*	74.6	340.5	8,500*
280	80	140	68.9	342.6	12,400*	71.0	340.6	10,300*	72.9	336.5	7,700*
280	80	150	67.2	338.4	11,500*	69.2	336.3	9,300*	71.1	332.2	6,900*
280	80	160	65.4	333.8	10,500*	67.5	331.7	8,600*	69.3	327.5	6,200*
280	80	170	63.7	328.8	9,700*	65.7	326.6	7,800*	67.5	322.4	5,600*
280	80	180	61.9	323.4	8,900*	63.9	321.2	7,200*	65.7	316.9	5,100*
280	80	190	60.0	317.6	8,200*	62.1	315.4	6,500*	63.8	310.9	4,700*
280	80	200	58.2	311.3	7,600*	60.2	309.1	6,000*	61.9	304.6	4,200*
280	80	210	56.3	304.6	7,000*	58.3	302.3	5,600*	60.0	297.7	3,900*
280	80	220	54.3	297.4	6,600*	56.3	295.0	5,100*	58.0	290.3	3,500*
280	80	230	52.3	289.6	6,000*	54.3	287.2	4,800*	55.9	282.4	3,200*
280	80	240	50.3	281.3	5,600*	52.2	278.8	4,400*	53.8	273.8	2,900*
280	80	250	48.1	272.3	5,300*	50.1	269.7	4,100*	51.6	264.6	2,700*
280	80	260	45.9	262.7	4,900*	47.8	260.0	3,800*	49.4	254.6	2,500*
280	80	270	43.6	252.2	4,600*	45.5	249.4	3,500*	47.0	243.8	2,300*
280	80	280	41.3	240.8	4,300*	43.1	237.9	3,300*			
280	80	290	38.7	228.4	4,000	40.5	225.3	3,100*			
280	80	300	36.1	214.8	3,400	37.8	211.5	2,900*			
280	80	310	33.2	199.7	2,800						
280	80	320	30.1	182.8	2,200						
280	100	70	81.2	383.5	9,800*						
280	100	80	79.7	381.6	9,600*						

HC-278H Tubular Jib Capacities - 360° Rotation - "ABCD" + "AB" Counterweights

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom								
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)
280	100	90	78.2	379.4	9,400*	80.7	377.1	8,300*	81.5	370.0	7,400*
280	100	100	76.6	377.0	9,100*	79.1	374.6	8,200*	79.9	367.2	7,300*
280	100	110	75.1	374.2	8,900*	77.6	371.9	8,000*	78.3	364.1	6,800*
280	100	120	73.5	371.1	8,700*	76.0	368.8	7,800*	76.7	360.7	6,000*
280	100	130	71.9	367.8	8,400*	74.4	365.4	7,700*	75.1	356.9	5,400*
280	100	140	70.3	364.1	8,300*	72.8	361.7	7,500*	73.4	352.8	4,800*
280	100	150	68.7	360.1	8,100*	71.2	357.7	6,800*	71.8	348.4	4,300*
280	100	160	67.1	355.8	8,000*	69.5	353.3	6,200*	70.1	343.6	3,900*
280	100	170	65.4	351.1	7,400*	67.9	348.6	5,700*	68.4	338.5	3,500*
280	100	180	63.7	346.1	6,800*	66.2	343.5	5,200*	66.6	332.9	3,100*
280	100	190	62.0	340.6	6,300*	64.4	338.1	4,800*	64.8	327.0	2,900*
280	100	200	60.3	334.8	5,700*	62.7	332.2	4,400*	63.0	320.6	2,600*
280	100	210	58.5	328.6	5,400*	60.9	325.9	4,000*	61.2	313.8	2,300*
280	100	220	56.7	322.0	5,000*	59.1	319.2	3,700*	59.3	306.5	2,100*
280	100	230	54.9	314.8	4,600*	57.2	312.0	3,400*			
280	100	240	53.0	307.2	4,200*	55.3	304.3	3,100*			
280	100	250	51.1	299.0	4,000*	53.4	296.1	2,900*			
280	100	260	49.1	290.2	3,700*	51.4	287.2	2,700*			
280	100	270	47.0	280.8	3,400*	49.3	277.7	2,500*			
280	100	280	44.9	270.7	3,200*	47.1	267.4	2,300*			
280	100	290	42.7	259.8	3,000*	44.9	256.4	2,200*			
280	100	300	40.3	248.0	2,800*	42.5	244.4	2,000*			
280	100	310	37.9	235.1	2,600*						
280	100	320	35.3	220.9	2,500*						
280	100	330	32.5	205.3	2,000						
300	30	60	80.6	334.7	34,200*	81.5	333.9	32,700*	80.5	330.3	28,400*
300	30	70	78.8	332.8	31,600*	79.7	332.0	30,200*	78.7	328.1	26,000*
300	30	80	77.1	330.6	29,100*	77.9	329.8	27,700*	76.9	325.5	23,700*
300	30	90	75.3	328.1	26,800*	76.2	327.2	25,500*	75.1	322.6	21,800*
300	30	100	73.5	325.2	24,500*	74.4	324.3	23,400*	73.3	319.4	19,800*
300	30	110	71.7	322.0	22,500*	72.5	321.1	21,500*	71.5	315.8	18,100*
300	30	120	69.9	318.4	20,600*	70.7	317.5	19,500*	69.6	311.8	16,600*
300	30	130	68.0	314.4	19,000*	68.8	313.6	18,100*	67.7	307.4	15,100*
300	30	140	66.1	310.1	17,300*	67.0	309.2	16,500*	65.8	302.7	13,900*
300	30	150	64.2	305.4	16,000*	65.0	304.5	15,200*	63.8	297.5	12,700*
300	30	160	62.3	300.3	14,800*	63.1	299.3	13,900*	61.8	291.8	11,700*
300	30	170	60.3	294.7	13,500*	61.1	293.7	12,800*	59.8	285.7	10,700*
300	30	180	58.3	288.6	12,600*	59.1	287.7	11,900*	57.7	279.1	9,900*
300	30	190	56.2	282.1	11,600*	57.0	281.1	10,900*	55.6	272.0	9,200*
300	30	200	54.1	275.0	10,700	54.9	274.0	10,100*	53.4	264.2	8,500*
300	30	210	52.0	267.4	9,400	52.7	266.3	9,300*	51.1	255.9	7,800*
300	30	220	49.7	259.1	8,100	50.5	258.0	8,400	48.8	246.8	7,300*
300	30	230	47.4	250.1	7,000	48.2	249.0	7,200	46.3	236.9	6,300
300	30	240	45.0	240.4	6,000	45.7	239.2	6,200			
300	30	250	42.5	229.8	5,100	43.2	228.6	5,300			
300	30	260	39.8	218.2	4,200	40.6	216.9	4,400			
300	30	270	37.0	205.4	3,400	37.7	204.0	3,600			
300	30	280	34.0	191.1	2,700						
300	40	60	81.0	344.8	32,000*	80.4	341.9	27,900*	81.5	339.7	25,500*
300	40	70	79.3	343.0	29,600*	78.7	339.7	25,500*	79.8	337.6	23,100*
300	40	80	77.6	340.8	27,200*	77.0	337.3	23,200*	78.0	335.1	21,100*
300	40	90	75.9	338.4	25,000*	75.3	334.5	21,400*	76.3	332.3	19,100*
300	40	100	74.1	335.6	22,900*	73.5	331.3	19,500*	74.5	329.1	17,600*
300	40	110	72.4	332.5	21,000*						

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom								
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)
300	40	120	70.6	329.0	19,100*	71.7	327.9	17,800*	72.7	325.6	15,900*
300	40	130	68.8	325.2	17,500*	69.9	324.1	16,400*	70.9	321.8	14,500*
300	40	140	67.0	321.0	16,000*	68.1	319.9	14,900*	69.1	317.5	13,300*
300	40	150	65.2	316.5	14,700*	66.3	315.3	13,800*	67.2	312.9	12,000*
300	40	160	63.3	311.5	13,600*	64.4	310.3	12,600*	65.3	307.9	11,000*
300	40	170	61.4	306.2	12,500*	62.5	304.9	11,500*	63.4	302.5	10,100*
300	40	180	59.5	300.4	11,700*	60.5	299.1	10,600*	61.4	296.6	9,300*
300	40	190	57.5	294.1	10,700*	58.5	292.8	9,800*	59.4	290.3	8,500*
300	40	200	55.5	287.3	9,900*	56.5	286.0	9,100*	57.4	283.4	7,800*
300	40	210	53.4	280.0	9,200*	54.4	278.7	8,300*	55.3	276.0	7,200*
300	40	220	51.3	272.1	8,400	52.3	270.7	7,700*	53.1	268.0	6,600*
300	40	230	49.1	263.6	7,300	50.1	262.2	7,200*	50.9	259.3	6,100*
300	40	240	46.8	254.4	6,300	47.8	252.9	6,600	48.6	250.0	5,700*
300	40	250	44.4	244.4	5,400	45.4	242.9	5,600	46.1	239.8	5,300*
300	40	260	42.0	233.6	4,500	42.9	231.9	4,700			
300	40	270	39.4	221.7	3,700	40.3	220.0	3,900			
300	40	280	36.6	208.6	3,000	37.5	206.8	3,200			
300	40	290	33.7	194.1	2,300						
300	60	60	81.8	365.0	26,900*						
300	60	70	80.2	363.3	25,000*	81.8	361.8	22,900*			
300	60	80	78.6	361.3	23,100*	80.2	359.7	20,900*	81.7	356.6	18,000*
300	60	90	77.0	359.0	21,200*	78.5	357.4	19,100*	80.0	354.3	16,300*
300	60	100	75.3	356.3	19,500*	76.9	354.8	17,400*	78.4	351.6	14,700*
300	60	110	73.7	353.4	17,800*	75.2	351.8	15,900*	76.7	348.7	13,300*
300	60	120	72.0	350.2	16,200*	73.6	348.6	14,500*	75.0	345.4	12,000*
300	60	130	70.3	346.6	15,000*	71.9	345.0	13,300*	73.3	341.7	10,900*
300	60	140	68.6	342.7	13,700*	70.2	341.0	12,000*	71.6	337.8	9,700*
300	60	150	66.9	338.4	12,600*	68.4	336.8	10,900*	69.8	333.5	8,900*
300	60	160	65.2	333.8	11,500*	66.7	332.1	10,100*	68.1	328.8	8,000*
300	60	170	63.4	328.8	10,600*	64.9	327.1	9,200*	66.3	323.7	7,300*
300	60	180	61.6	323.4	9,700*	63.1	321.7	8,400*	64.4	318.2	6,600*
300	60	190	59.8	317.6	9,000*	61.3	315.8	7,700*	62.6	312.3	6,100*
300	60	200	57.9	311.4	8,300*	59.4	309.6	7,100*	60.7	306.0	5,500*
300	60	210	56.0	304.7	7,600*	57.5	302.8	6,500*	58.7	299.1	5,000*
300	60	220	54.1	297.4	7,000*	55.5	295.6	6,000*	56.8	291.8	4,700*
300	60	230	52.1	289.7	6,500*	53.5	287.7	5,600*	54.7	283.9	4,300*
300	60	240	50.0	281.4	6,100*	51.4	279.4	5,100*	52.6	275.4	4,000*
300	60	250	47.9	272.4	5,700*	49.3	270.3	4,700*	50.4	266.2	3,600*
300	60	260	45.7	262.7	5,000	47.1	260.6	4,400*	48.2	256.3	3,400*
300	60	270	43.4	252.3	4,200	44.8	250.0	4,100*	45.8	245.5	3,100*
300	60	280	41.0	240.9	3,500	42.3	238.5	3,800			
300	60	290	38.5	228.5	2,800	39.8	226.0	3,100			
300	60	300	35.8	214.9	2,200	37.1	212.2	2,400			
300	80	70	81.0	383.6	17,800*						
300	80	80	79.4	381.7	17,600*	81.5	379.7	16,300*			
300	80	90	77.9	379.5	17,300*	79.9	377.5	15,100*	81.8	373.6	12,200*
300	80	100	76.4	377.0	15,800*	78.4	375.0	13,700*	80.2	371.1	10,900*
300	80	110	74.8	374.2	14,600*	76.8	372.2	12,500*	78.7	368.3	9,800*
300	80	120	73.2	371.2	13,400*	75.2	369.2	11,300*	77.1	365.1	8,700*
300	80	130	71.7	367.8	12,100*	73.6	365.8	10,300*	75.5	361.7	7,800*
300	80	140	70.1	364.1	11,200*	72.0	362.1	9,200*	73.8	358.0	7,100*
300	80	150	68.5	360.1	10,200*	70.4	358.1	8,500*	72.2	353.9	6,400*
300	80	160	66.8	355.8	9,300*	68.8	353.7	7,600*	70.5	349.5	5,700*
300	80	170	65.2	351.1	8,600*	67.1	349.0	7,000*	68.8	344.7	5,100*

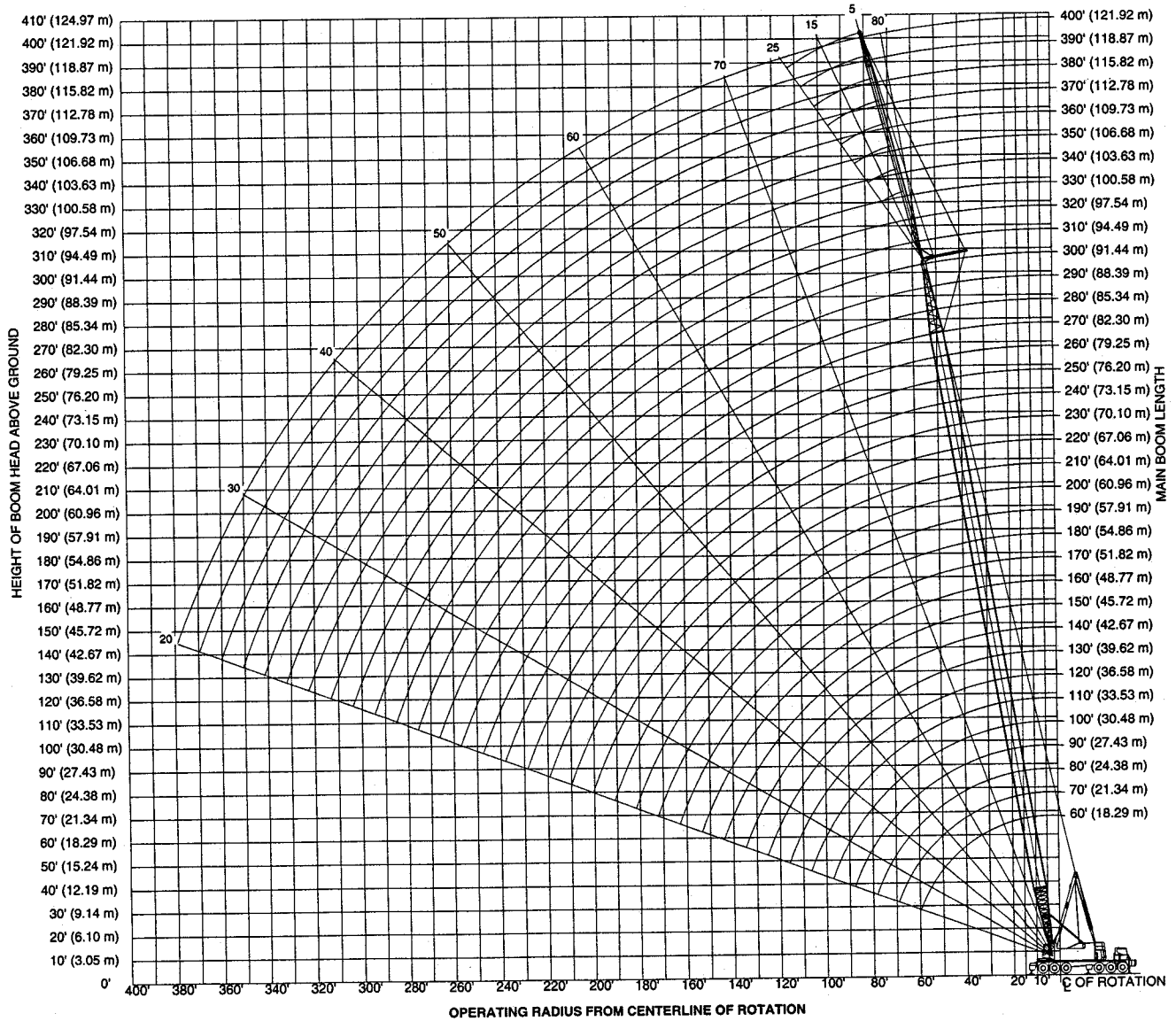
HC-278H Tubular Jib Capacities - 360° Rotation - "ABCD" + "AB" Counterweights

Boom Length (feet)	Jib Length (feet)	Jib Load Radius (feet)	Jib Angle to Boom								
			5 Degrees			15 Degrees			25 Degrees		
			Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)	Boom Angle (degree)	Jib Pt. Height (feet)	Jib Capacity (lbs.)
300	80	180	63.5	346.1	7,800*	65.4	343.9	6,500*	67.1	339.6	4,600*
300	80	190	61.8	340.7	7,300*	63.7	338.5	5,800*	65.4	334.1	4,200*
300	80	200	60.0	334.9	6,600*	61.9	332.6	5,400*	63.6	328.2	3,800*
300	80	210	58.3	328.7	6,200*	60.2	326.4	4,900*	61.8	321.8	3,500*
300	80	220	56.5	322.0	5,700*	58.4	319.7	4,500*	60.0	315.0	3,200*
300	80	230	54.6	314.9	5,300*	56.5	312.5	4,200*	58.1	307.7	2,900*
300	80	240	52.8	307.2	4,900*	54.6	304.8	3,800*	56.2	299.9	2,700*
300	80	250	50.8	299.1	4,500*	52.6	296.5	3,500*	54.2	291.5	2,400*
300	80	260	48.8	290.3	4,200*	50.6	287.7	3,300*	52.1	282.5	2,200*
300	80	270	46.8	280.9	3,900*	48.6	278.2	3,000*	50.0	272.8	2,100*
300	80	280	44.6	270.8	3,600*	46.4	268.0	2,800*			
300	80	290	42.4	259.8	3,200	44.2	256.9	2,700*			
300	80	300	40.1	248.0	2,600	41.8	245.0	2,500*			
300	80	310	37.6	235.1	2,000	39.3	231.9	2,300			
300	100	70	81.7	403.8	9,900*						
300	100	80	80.2	402.0	9,700*						
300	100	90	78.8	399.9	9,500*	81.2	397.6	8,400*			
300	100	100	77.3	397.6	9,200*	79.7	395.2	8,200*	82.0	390.6	7,400*
300	100	110	75.8	395.0	9,000*	78.2	392.6	8,100*	80.5	387.9	7,100*
300	100	120	74.4	392.1	8,800*	76.7	389.7	7,900*	78.9	384.9	6,400*
300	100	130	72.9	388.9	8,600*	75.2	386.5	7,800*	77.4	381.7	5,600*
300	100	140	71.3	385.4	8,400*	73.7	383.0	7,000*	75.9	378.2	5,000*
300	100	150	69.8	381.7	8,000*	72.2	379.2	6,400*	74.3	374.3	4,500*
300	100	160	68.3	377.6	7,400*	70.6	375.1	5,800*	72.8	370.2	4,000*
300	100	170	66.7	373.2	6,800*	69.1	370.7	5,300*	71.2	365.7	3,600*
300	100	180	65.2	368.5	6,200*	67.5	365.9	4,800*	69.6	360.8	3,200*
300	100	190	63.6	363.4	5,600*	65.9	360.8	4,300*	67.9	355.7	2,900*
300	100	200	61.9	358.0	5,100*	64.2	355.3	3,900*	66.3	350.1	2,600*
300	100	210	60.3	352.2	4,800*	62.6	349.5	3,600*	64.6	344.2	2,300*
300	100	220	58.6	346.0	4,400*	60.9	343.2	3,300*	62.9	337.8	2,100*
300	100	230	56.9	339.3	4,100*	59.1	336.6	3,000*			
300	100	240	55.2	332.3	3,800*	57.4	329.5	2,800*			
300	100	250	53.4	324.8	3,500*	55.6	321.9	2,500*			
300	100	260	51.5	316.7	3,200*	53.7	313.7	2,400*			
300	100	270	49.7	308.1	3,000*	51.8	305.1	2,200*			
300	100	280	47.7	299.0	2,800*	49.9	295.8	2,000*			
300	100	290	45.7	289.1	2,600*						
300	100	300	43.7	278.6	2,400*						
300	100	310	41.5	267.2	2,200*						

HC-278H Jib Capacity Notes

1. Capacities are shown in pounds and are the maximum allowable. Capacities are based on machine standing level on firm supporting surface under ideal job conditions. Capacities are not more than 85% of the tipping loads unless marked with an asterisk (*).
 - a. Asterisk indicates capacities are based on factors other than those which would cause a tipping condition.
2. Capacities are for 360° swing on five outrigger jacks.
3. Capacities are limited to a Link-Belt 68" x 80" (1.73 x 2.03 m) open throat tubular boom, live mast and a Link-Belt 20-ton (18t), 24" x 32" (.61 x .81 m) cross section tubular jib with a 17' 10" (5.44 m) high jib strut properly assembled.
4. Do not swing over side until all four outrigger beams are fully extended, all five jacks are extended, all tires are clear of the ground and machine is properly leveled on a firm supporting surface.
5. Two parts of 1" (25 mm) diameter type "N" wire rope is required for maximum lift.
6. Capacities shown are for 30' (9.14 m), 40' (12.19 m), 60' (18.29 m), 80' (24.38 m), and 100' (30.48 m) jib lengths only. Capacities for all jib lengths are available in the machine's Crane Rating Manual.
7. A jib cannot be used on the open throat boom that is longer than 300' (91.44 m).
8. The least stable condition is over the side.
9. A deduction must be made from the jib capacities for weight of hook block, hook, sling, grapple, load weighing devices, etc.
10. When using main hook, while jib is attached, reduce boom capacities by the following values:
 - a. 30' (9.14 m) jib - 2,600 lbs. (1 179 kg)
 - b. 40' (12.19 m) jib - 3,000 lbs. (1 361 kg)
 - c. 50' (15.24 m) jib - 3,400 lbs. (1 542 kg)
 - d. 60' (18.29 m) jib - 3,800 lbs. (1 724 kg)
 - e. 70' (21.34 m) jib - 4,200 lbs. (1 905 kg)
 - f. 80' (24.38 m) jib - 4,600 lbs. (2 087 kg)
 - g. 90' (27.43 m) jib - 5,000 lbs. (2 268 kg)
 - h. 100' (30.48 m) jib - 5,400 lbs. (2 449 kg)
11. Refer to all notes in applicable Crane Rating Manual in addition to these notes.
12. Capacities apply only to the machine as originally manufactured and normally equipped by Link-Belt Construction Equipment Company.

HC-278H Tube Boom + Jib Working Range



Link-Belt Construction Equipment Company Lexington, Kentucky

A unit of Sumitomo Construction Machinery Co., Ltd.

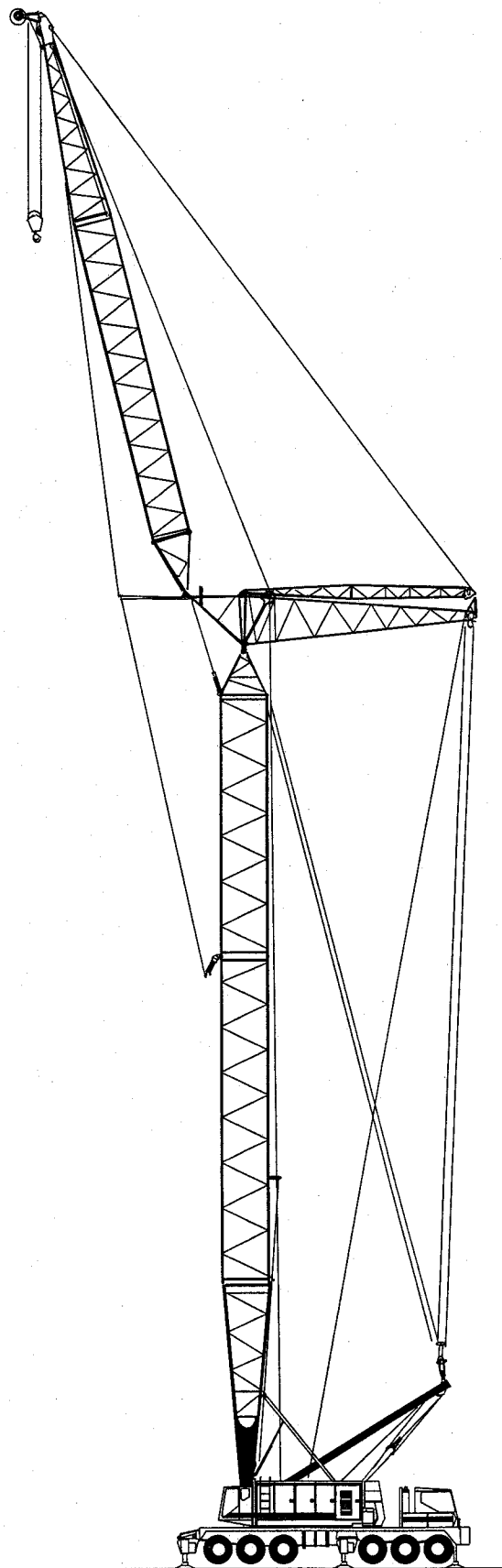
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Specifications

Hydraulic Lattice Boom Truck Crane
With Luffing Attachment

HC-278H

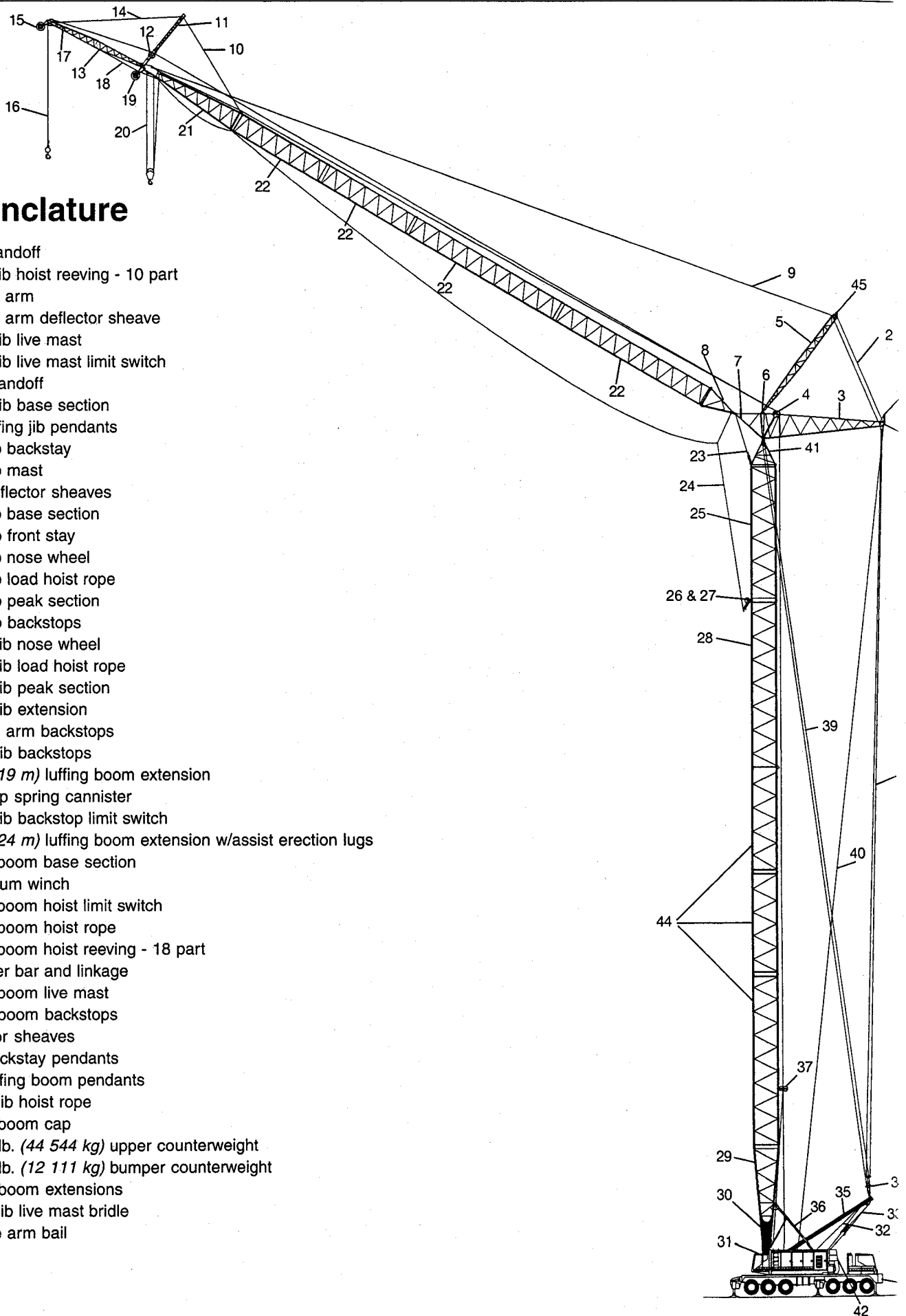
42.5-Ton (38.58 metric ton)



Not to Scale

Luffing Boom - Luffing Jib - Fixed Jib Combinations	Feet	Meters
Basic & maximum luffing boom lengths	140'/250'	42.67/76.20
Basic & maximum luffing jib lengths	100'/200'	30.48/60.96
Basic & maximum fixed jib lengths	30'/30'	9.14/9.14
Maximum luffing boom and luffing jib combination lengths; assist erected	250' + 200'	76.20 + 60.96
Maximum height - center luffing jib head sheave @ 80° (24.38 m) radius	446'	135.9
Maximum horizontal reach - center luffing jib load hook @ max. chart radius w/luffing boom @ 85° offset	233'	71.02
Maximum luffing boom, luffing jib, and fixed jib combination lengths; assist erected	250' + 200' + 30'	76.20 + 60.96 + 9.14
Maximum height - center fixed jib peak sheave @ 80° (24.38 m) radius	477'	145.39
Maximum horizontal reach - center fixed jib load hook @ max. chart radius w/ luffing boom @ 85° offset	263'	80.16
Maximum luffing boom, luffing jib, and fixed jib combination lengths; non-assist erected	200' + 200' + 30'	60.96 + 60.96 + 9.14
Maximum height - center fixed jib head sheave @ 75° (22.86 m) radius	428'	130.45
Maximum horizontal reach - center fixed jib load hook @ max. chart radius w/luffing boom @ 85° offset	259'	78.94

General Dimensions - 90° Luffing Boom	Feet	Meters
Luffing boom live mast	35' 0"	10.66
Overall height, top of turntable bearing	5' 5"	1.65
Ground clearance under counterweight	5' 5"	1.65
Minimum ground clearance	9"	.22
Overall height - live mast vertical	44' 5"	13.53
Overall truck length	43' 7"	13.28
Tailswing of counterweight (at corners)	18' 9"	5.72
Tailswing of balance arm and luffing boom live mast	32' 10"	10.00
Overall width of counterweight	11' 10"	3.60
Radius of luffing jib hinge pin	11' 2"	3.40
Radius of luffing boom hinge pin	3' 2"	.96
Height of luffing boom hinge pin (on outriggers)	8' 0"	2.44
Overall length - attachment removed but with luffing boom mast lowered horizontal	68' 6"	20.87
Height of luffing jib foot pin (140' - 42.67m - luffing boom)	148' 0"	45.11
Centerline of luffing boom to end of balance arm	36' 0"	10.97
Luffing jib hinge pin to centerline of luffing boom	8' 0"	2.44



Nomenclature

1. Rear standoff
2. Luffing jib hoist reeving - 10 part
3. Balance arm
4. Balance arm deflector sheave
5. Luffing jib live mast
6. Luffing jib live mast limit switch
7. Front standoff
8. Luffing jib base section
9. Dual luffing jib pendants
10. Fixed jib backstay
11. Fixed jib mast
12. Mast deflector sheaves
13. Fixed jib base section
14. Fixed jib front stay
15. Fixed jib nose wheel
16. Fixed jib load hoist rope
17. Fixed jib peak section
18. Fixed jib backstops
19. Luffing jib nose wheel
20. Luffing jib load hoist rope
21. Luffing jib peak section
22. Luffing jib extension
23. Balance arm backstops
24. Luffing jib backstops
25. 40' (12.19 m) luffing boom extension
26. Backstop spring cannister
27. Luffing jib backstop limit switch
28. 50' (15.24 m) luffing boom extension w/assist erection lugs
29. Luffing boom base section
30. Third drum winch
31. Luffing boom hoist limit switch
32. Luffing boom hoist rope
33. Luffing boom hoist reeving - 18 part
34. Spreader bar and linkage
35. Luffing boom live mast
36. Luffing boom backstops
37. Deflector sheaves
38. Dual backstay pendants
39. Dual luffing boom pendants
40. Luffing jib hoist rope
41. Luffing boom cap
42. 98,200 lb. (44 544 kg) upper counterweight
43. 26,700 lb. (12 111 kg) bumper counterweight
44. Luffing boom extensions
45. Luffing jib live mast bridle
46. Balance arm bail

Specifications

■ Luffing Boom

Tubular; 100" (2.54 m) wide, 85" (2.16 m) deep at connections. Alloy steel round tubular chords 5-1/4" (.13 m) outside diameter.

■ Luffing Boom Base Section

35' (10.67 m) long. Luffing boom feet on 66" (1.67 m) centers. Hydraulic powered luffing boom foot pin removal system standard.

■ Luffing Boom Extensions

Available in 20' (6.10 m), 30' (9.14 m), 40' (12.19 m) and 50' (15.24 m) lengths with appropriate length pendants.

■ Luffing Boom Connections

In-line pin connections.

■ Luffing Boom Cap

7' 6" (2.29 m) long; tubular construction, pin connected to the top luffing boom extension.

■ Balance Arm

Provides an offset luffing jib connection to allow for a full 165° of luffing jib angle variation from erection to minimum radius operating position. Transfers the resultant of the luffing jib foot thrust to the luffing boom centerline so that all four chords are loaded equally. Tubular construction, front chords span 8' 0" (2.44 m) from luffing boom centerline and rear chords span 35' 0" (10.67 m) from luffing boom centerline to the luffing jib hoist bail shaft.

■ Luffing Boom Stops

Dual lever type, spring cushioned. Adjustable levers pin to luffing boom base section; backstops anchor to the upper revolving frame. Required for all luffing boom lengths.

■ Luffing Boom Hoist Bridle

The bridle contains nine 15" (.38 m) root dia. sheaves (18-part reeving) and two 15" (.38 m) root dia. auxiliary load hoist sheaves which enable the mast to be used as an auxiliary boom for machine assembly and disassembly.

■ Luffing Boom Live Mast

Welded plate/tube construction 35' 0" (10.67 m) long, required for all luffing boom/luffing jib lengths; supports luffing jib hoist bridle. (Same live mast as on standard crane.)

■ Balance Arm Stops

Prevent the balance arm from angling past a line perpendicular to the centerline of the luffing boom during erection.

■ Wire Rope

See chart on page 4.

■ Basic Luffing Boom

140' (42.67 m) long; contains one 35' 0" (10.67 m) base section, one 40' 0" (12.19 m) extension, one 50' 0" (15.24 m) extension, 7' 6" (2.29 m) tapered luffing boom cap and 7' 6" (2.29 m) balance arm. (Includes bail, live mast, hoist bridle and live mast stops.)

■ Maximum Luffing Boom

No assist luffing boom erection; 200' (60.96 m) luffing boom for use with maximum 200' (60.96 m) luffing jib and 30' (9.14 m) fixed jib.

Assist luffing boom erection; 250' (76.20 m) luffing boom for use with maximum 200' (60.96 m) luffing jib and 30' (9.14 m) fixed jib.

■ Luffing Jib

Tubular; basic luffing jib 100' (30.48 m) long; 80" (2.03 m) wide, 68" (1.72 m) deep at connections. Alloy steel round tubular chords 4-1/4" (.10 m) outside diameter.

■ Luffing Jib Base Section

10' 0" (3.04 m) long; 100" (2.54 m) wide at luffing jib foot. 68" (1.72 m) deep and 80" (2.03 m) wide at pin connections.

■ Luffing Jib Extensions

Available in 10' (3.05 m), 20' (6.10 m), 30' (9.14 m), 40' (12.19 m) and 50' (15.24 m) lengths with appropriate length pendants. (Standard luffing jib extensions.)

■ Luffing Jib Connections

In-line pin connections.

■ Top Section

Open throat, 30' (9.14 m) long. (Standard luffing jib top section, modified to accept nose wheel.)

■ Luffing Jib Live Mast

35' (10.67 m) long, required for all luffing jib/fixed jib lengths.

■ Luffing Jib Point Machinery

Six 21" (.53 m) root diameter sheaves. Sheaves mounted on anti-friction bearings.

■ Luffing Jib Sheave Guards

Tubular upper guard, steel rod lower guard.

■ Deflector Rollers

Deflect load hoist wire rope off luffing boom/luffing jib. Steel rollers mounted on anti-friction pillow block bearings.

■ Luffing Jib Backstop System

3/4" (19 mm) wire rope type "N" pendants. Contains spring canisters and a limit switch to prevent luffing jib from exceeding max. operating angle.

■ Luffing Jib Hoist

1" (25 mm) type "N" luffing jib hoist line runs from the rear drum to the balance arm bail. Ten part reeving hoists luffing jib from -90° to 0° during erection and from 0° to 73° during operation.

■ Luffing Jib Hoist Limiting Device

The balance arm is equipped with a luffing jib hoist limit switch used to avoid hoisting above minimum radius. Brakes apply automatically.

■ Drum Rotation Indicators

Standard for front drum (load hoist) and rear drum (luffing jib hoist).

■ Luffing Jib Lengths

Luffing jib lengths from 100' (30.48 m) to 200' (60.96 m) may be used on all luffing boom lengths from 140' (42.67 m) to 250' (76.20 m) with luffing boom at 85° or 90° angles.

■ Luffing Jib Nose Wheels

Pin-connected to end of luffing jib top section; support luffing jib peak on ground during luffing boom and luffing jib erection. Dual 8.35 x 15 (12-ply) rating tires.

■ Luffing Boom And Luffing Jib Angle Indicators

Electronic type standard. Read out unit conveniently located in crane operator's cab.

■ Fixed Jib

Tubular; basic two-piece 30' (9.14 m) long; 32" (.81 m) wide; 24" (.51 m) deep at connections. Alloy steel round tubular chords 2-1/4" (.57 m) outside diameter. (Same jib as used on standard boom.)

Load Hoisting Performance

Line speed and pull

Rope layer	Third Drum - 1" (25 mm) wire rope - No Load							
	Low speed				High speed			
	Line Pull		Line Speed		Line Pull		Line Speed	
	lb.	kg	fpm	m/min	lb.	kg	fpm	m/min
1	0	0	218	66.4	0	0	440	134.1
2	0	0	237	72.2	0	0	479	146.0
3	0	0	256	78.0	0	0	517	157.6
4	0	0	275	83.8	0	0	556	169.5
5	0	0	294	89.6	0	0	595	181.4

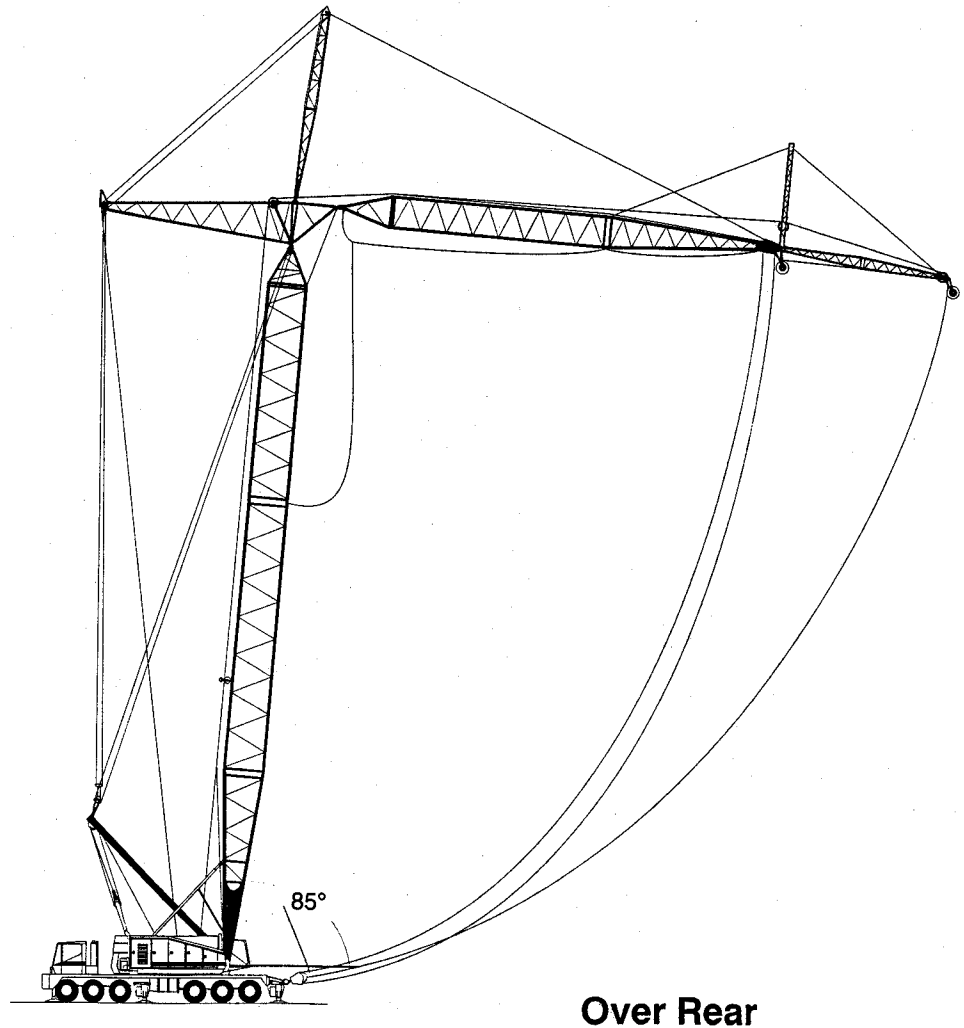
Rope layer	Third Drum - 1" (25 mm) wire rope - With Full Load							
	Low speed				High speed			
	Line Pull		Line Speed		Line Pull		Line Speed	
	lb.	kg	fpm	m/min	lb.	kg	fpm	m/min
1	23,600	10 714	184	56.1	9,700	4 404	368	112.2
2	21,700	9 852	200	61.0	8,900	4 041	401	122.2
3	20,100	9 125	217	66.1	8,300	3 768	433	132.0
4	18,700	8 490	233	71.0	7,700	3 496	466	142.0
5	17,500	7 945	249	75.9	7,200	3 269	498	151.8

Jobsite Travel

(without load)

The HC-278H with luffing attachment may be moved on the jobsite with all combinations of luffing boom, luffing jib, and fixed jib. This can be done with the upper facing either over the front or rear of the carrier. Consult Operator's Manual for proper attachment angles.

See page 6 for over front configuration.



Load Hoisting Performance

Line speed and pull

Rope layer	Third Drum - 1" (25 mm) wire rope - No Load							
	Low speed				High speed			
	Line Pull		Line Speed		Line Pull		Line Speed	
	lb.	kg	fpm	m/min	lb.	kg	fpm	m/min
1	0	0	218	66.4	0	0	440	134.1
2	0	0	237	72.2	0	0	479	146.0
3	0	0	256	78.0	0	0	517	157.6
4	0	0	275	83.8	0	0	556	169.5
5	0	0	294	89.6	0	0	595	181.4

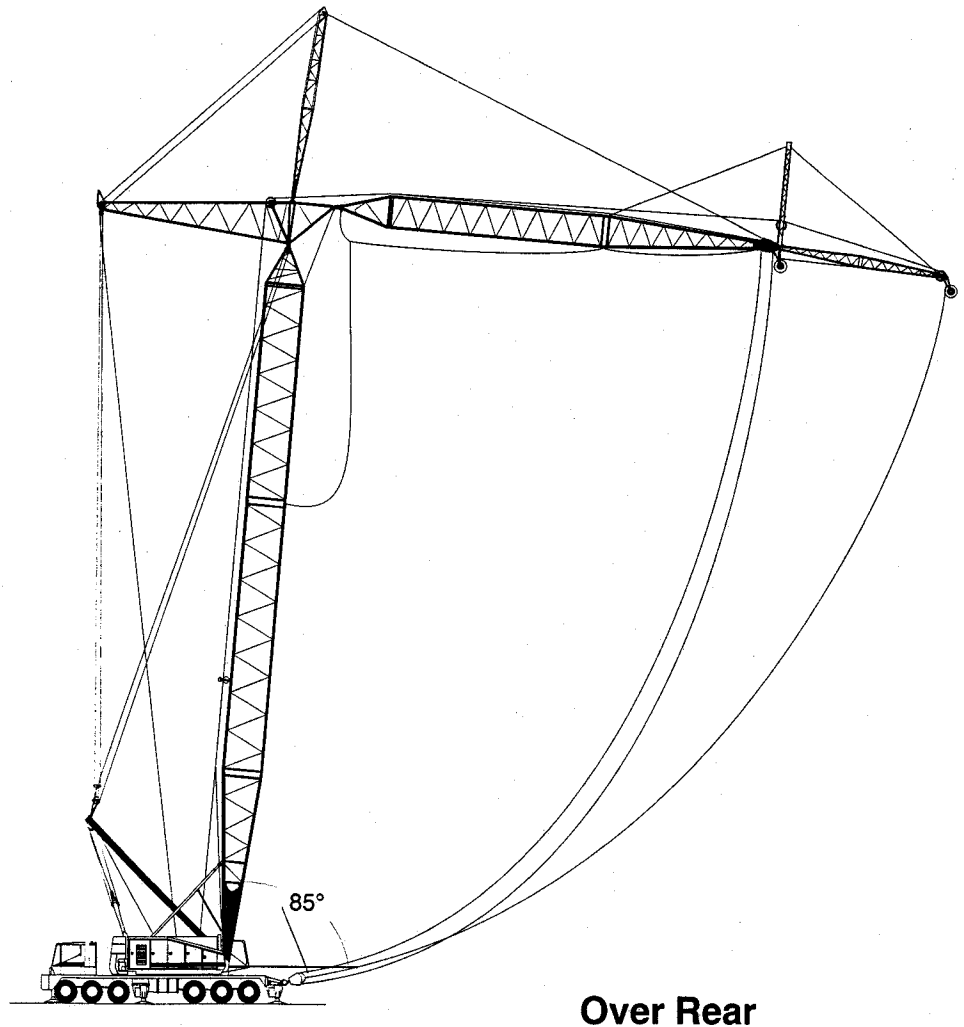
Rope layer	Third Drum - 1" (25 mm) wire rope - With Full Load							
	Low speed				High speed			
	Line Pull		Line Speed		Line Pull		Line Speed	
	lb.	kg	fpm	m/min	lb.	kg	fpm	m/min
1	23,600	10 714	184	56.1	9,700	4 404	368	112.2
2	21,700	9 852	200	61.0	8,900	4 041	401	122.2
3	20,100	9 125	217	66.1	8,300	3 768	433	132.0
4	18,700	8 490	233	71.0	7,700	3 496	466	142.0
5	17,500	7 945	249	75.9	7,200	3 269	498	151.8

Jobsite Travel

(without load)

The HC-278H with luffing attachment may be moved on the jobsite with all combinations of luffing boom, luffing jib, and fixed jib. This can be done with the upper facing either over the front or rear of the carrier. Consult Operator's Manual for proper attachment angles.

See page 6 for over front configuration.

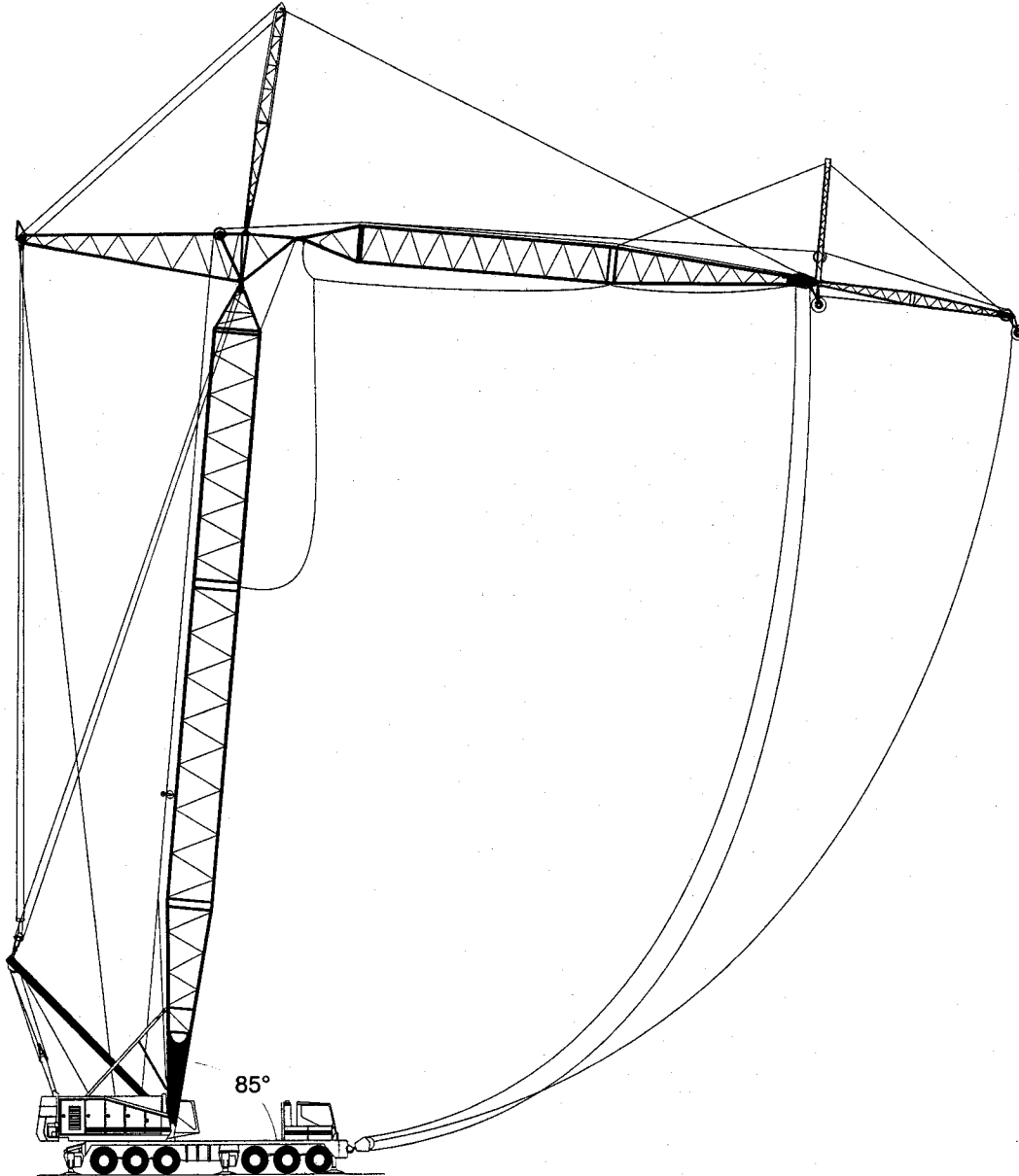


Over Rear

Jobsite Travel (without load) con't

The HC-278H with luffing attachment may be moved on the jobsite with all combinations of luffing boom, luffing jib, and fixed jib. This can be done with the upper facing either over the front or rear of the carrier. Consult Operator's Manual for proper attachment angles.

See page 5 for over rear configuration.



Over Front

HC-278H Luffing Crane Capacities

Refer to notes page 10

Luffing Boom - tubular:

100" (2.54 m) wide, 85" (2.16 m) deep.

Fixed Jib - tubular:

32" (.81 m) wide, 24" (.61 m) deep

Counterweights:

Refer to chart below.

Luffing Jib - tubular:

80" (2.03 m) wide, 68" (1.73 m) deep.

Mounting - Link-Belt carrier:

12 x 6 drive, 288" (7.32 m) wheelbase 11' 10" (3.61 m) wide.

Counterweights			
"ABCD" Upper		"AB" Bumper	
Pounds	Kilograms	Pounds	kilograms
98,200	44 544	26,700	12 111

Luffing boom and luffing jib + fixed jib machine can **lift off** ground unassisted, without load.

Standard HC-278H must be equipped with the counterweights listed below when the indicated luffing boom and luffing jib + fixed jib lengths are used.	Luffing boom and luffing jib + fixed jib lengths allowed	On Outriggers					
		Over rear (folded or flat)					
		Luffing Boom		Luffing Jib		Fixed Jib	
		Feet	meters	Feet	meters	Feet	meters
Upper Cwt. "ABCD" + "AB" Bumper Cwt.	Maximum	200	60.96	200	60.96	30	9.14

Machine **travel** ^① with luffing boom and luffing jib + fixed jib, with no load.

Standard HC-278H must be equipped with the counterweights listed below when the indicated luffing boom and luffing jib + fixed jib lengths are used.	Luffing boom and luffing jib + fixed jib lengths allowed	On Tires ^②			
		Jobsite moves at 1 mph (1.61 km/h) with luffing boom and luffing jib + fixed jib. ^③			
		Luffing Boom		Luffing Jib + Fixed Jib	
		Feet	meters	Feet	meters
Upper Cwt. "ABCD" + "AB" Bumper Cwt.	Maximum	250	76.20	200 + 30	60.96 + 9.14

① Hook block may be carried only when attached to carrier.

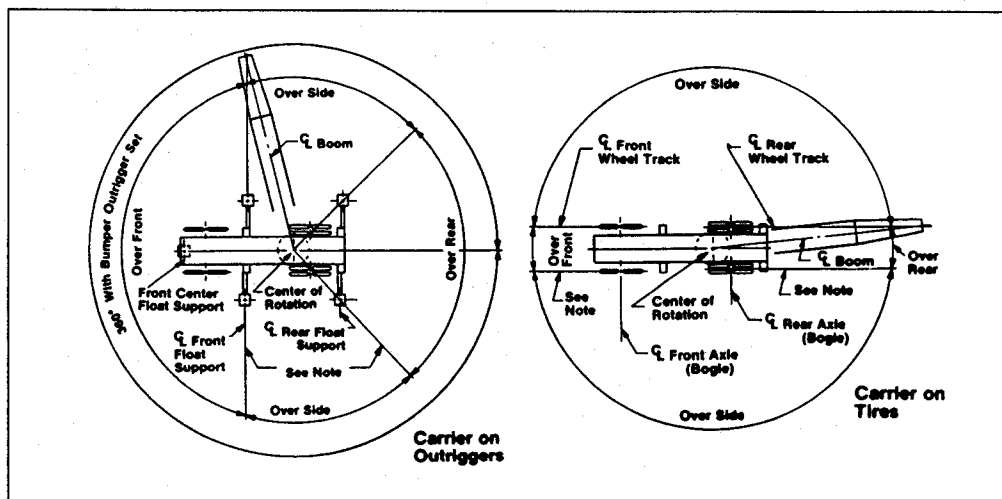
② For air pressure in front and rear tires refer to operator's manual or tire inflation chart on machine.

③ Refer to travel charts for luffing boom and jib angles before moving.

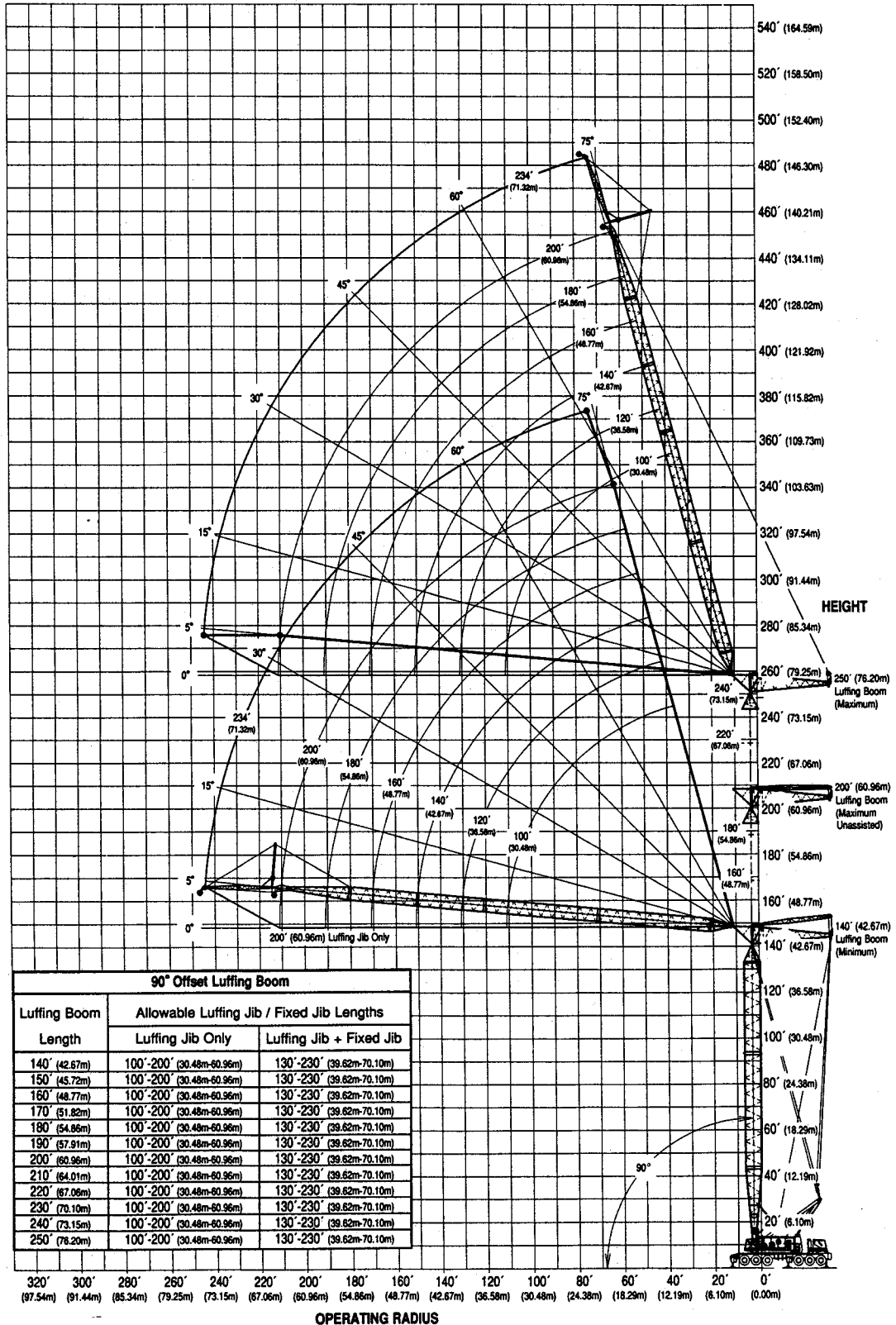
Working Areas

1. These lines determine the limiting position of any load for operation within working areas indicated.
2. Do not swing over side until all outrigger beams are fully extended, until all tires are clear of the ground and machine is properly leveled on a firm supporting surface.

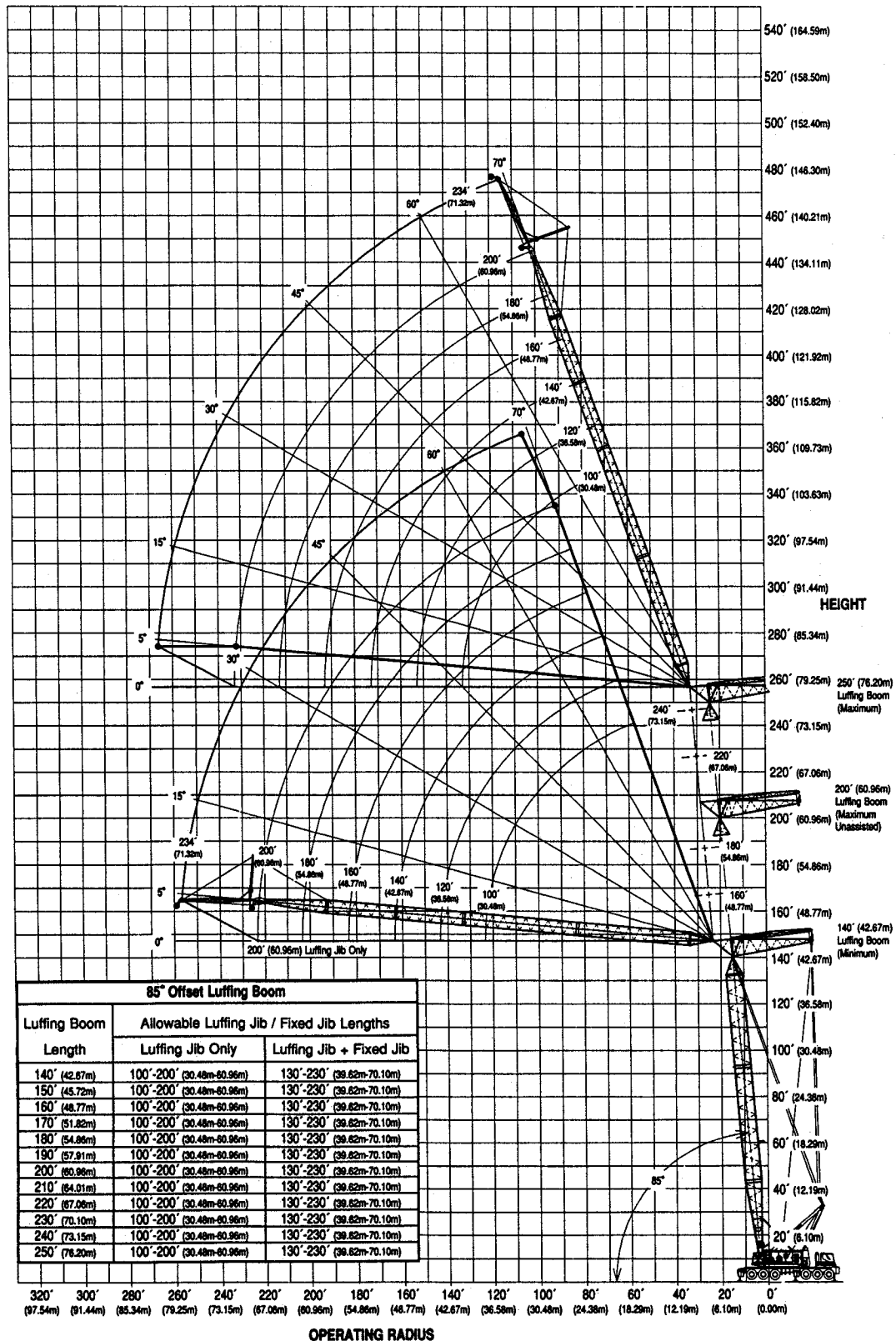
Caution: This material is for reference only. Operator must refer to in-cab Crane Rating Manual to determine allowable machine lifting capacities and operating procedures.



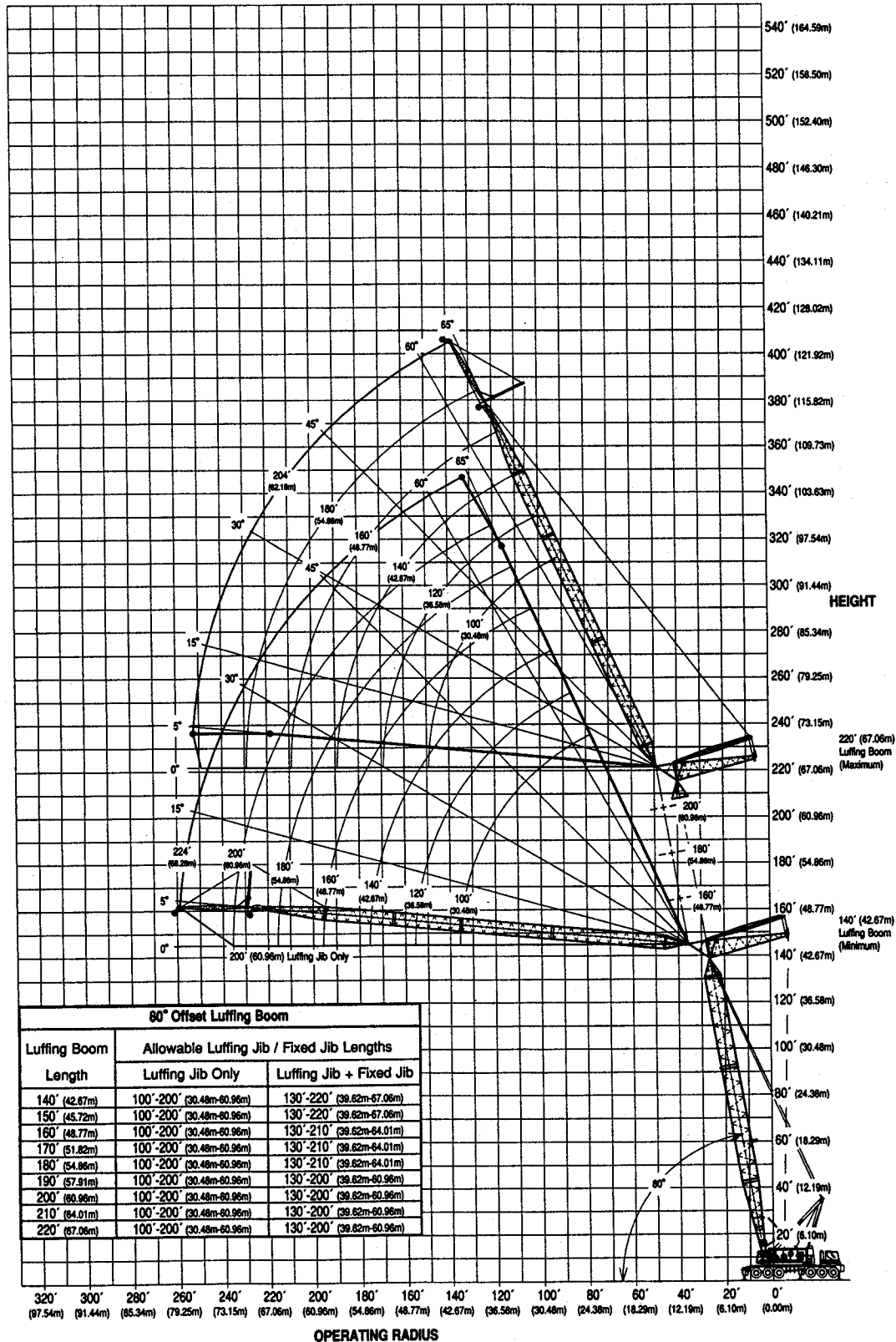
90° Offset Luffing Boom - Working Range



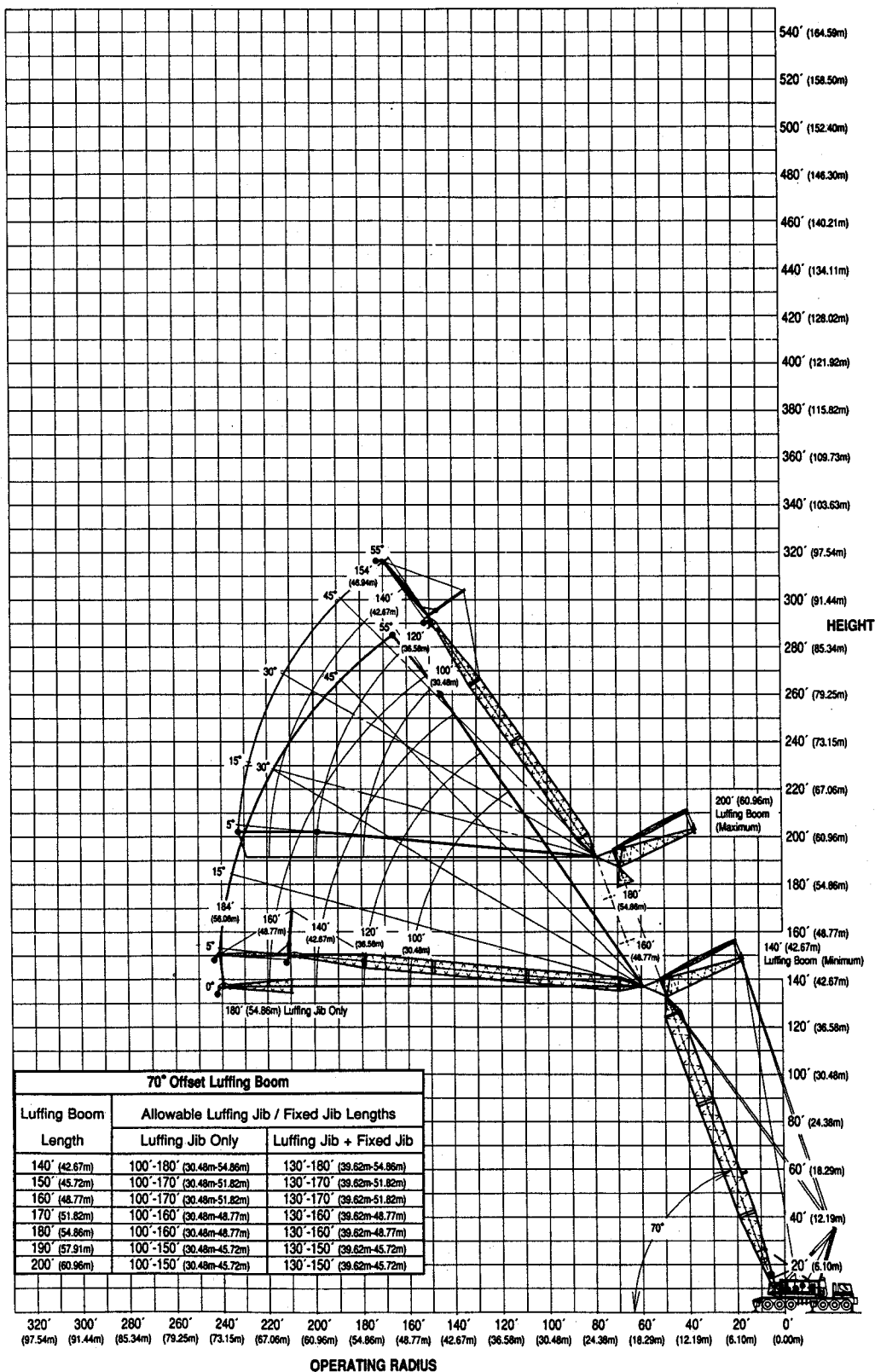
85° Offset Luffing Boom - Working Range



80° Offset Luffing Boom - Working Range



70° Offset Luffing Boom - Working Range



HC-278H Luffing Crane Capacities - 70° Luffing Boom Angle

Refer to notes on page 10.

Luffing jib length	Lifting Capacities - 70° Luffing Boom Angle																			
	Load radius		140' (42.67 m)						170' (51.82 m)						200' (60.96 m)					
			Luffing jib angle		Luffing boom point height ①		Lifting capacities		Luffing jib angle		Luffing boom point height ①		Lifting capacities		Luffing jib angle		Luffing boom point height ①		Lifting capacities	
	Fl.	m	Deg.	Fl.	m	Lbs.	kg	Deg.	Fl.	m	Lbs.	kg	Deg.	Fl.	m	Lbs.	kg			
100' (30.48 m)	120	36.6	52.1	215.7	65.7	25.9	11.7	—	—	—	—	—	—	—	—	—	—	—		
	130	39.6	46.0	207.8	63.3	23.1	10.5	52.3	244.2	74.4	21	9.5	—	—	—	—	—	—		
	140	42.7	37.4	196.6	59.9	20.7	9.4	47.4	237.1	72.3	18.8	8.5	52.4	272.7	83.1	16.6	7.5			
	150	45.7	26.7	180.7	55.1	18.7	8.5	39.1	226.5	69.0	17.0	7.7	48.9	266.4	81.2	14.9	6.8			
	160	48.8	—	—	—	—	—	28.8	211.6	64.5	15.3	6.9	40.8	256.4	78.2	13.4	6.1			
	170	51.8	—	—	—	—	—	—	—	—	—	—	31.0	242.5	73.9	12.1	5.5			
140' (42.67 m)	143	43.6	52.9	248.5	75.7	18.3	8.3	—	—	—	—	—	—	—	—	—	—	—		
	150	45.7	49.3	242.8	74.0	17.0	7.7	—	—	—	—	—	—	—	—	—	—	—		
	160	48.8	44.7	234.3	71.4	15.3	6.9	49.4	271.3	82.7	13.5	6.1	—	—	—	—	—	—		
	170	51.8	38.6	223.1	68.0	13.8	6.3	45.6	263.7	80.4	12.1	5.5	49.5	299.8	91.4	10.2	4.6			
	180	54.9	31.5	208.9	63.7	12.5	5.7	39.7	252.9	77.1	10.9	4.9	46.8	293.2	89.4	9.1	4.1			
	190	57.9	22.6	189.4	57.7	11.3	5.1	32.8	239.3	72.9	9.9	4.5	40.9	282.8	86.2	8.2	3.7			
160' (48.77 m)	200	31.0	—	—	—	—	—	24.3	221.0	67.4	8.9	4.0	34.2	269.8	82.2	7.3	3.3			
	210	64.0	—	—	—	—	—	—	—	—	—	—	26.1	252.6	77.0	6.5	2.9			
	155	47.2	53.0	264.5	80.6	15.2	6.9	—	—	—	—	—	—	—	—	—	—			
	160	48.8	50.7	260.5	79.4	14.4	6.5	—	—	—	—	—	—	—	—	—	—			
	170	51.8	46.8	252.5	77.0	12.9	5.9	50.8	289.0	88.1	11.2	5.1	—	—	—	—	—			
	180	54.9	41.7	242.3	73.9	11.6	5.3	47.6	281.7	85.9	10.0	4.5	—	—	—	—	—			
180' (54.86 m)	190	57.9	36.0	229.9	70.1	10.5	4.8	42.6	271.8	82.8	9.0	4.1	—	—	—	—	—			
	200	61.0	29.5	214.4	65.3	9.5	4.3	37.0	259.8	79.2	8.0	3.6	—	—	—	—	—			
	210	64.0	21.1	193.3	58.9	8.6	3.9	30.6	245.0	74.7	7.2	3.3	—	—	—	—	—			
	220	67.1	—	—	—	—	—	22.7	225.2	68.6	6.4	2.9	—	—	—	—	—			
	170	51.8	51.8	278.2	84.8	12.0	5.4	—	—	—	—	—	—	—	—	—	—			
	180	54.9	48.4	270.4	82.4	10.7	4.9	—	—	—	—	—	—	—	—	—	—			
180' (54.86 m)	190	57.9	44.0	260.9	79.5	9.6	4.4	—	—	—	—	—	—	—	—	—	—			
	200	61.0	39.3	249.6	76.1	8.6	3.9	—	—	—	—	—	—	—	—	—	—			
	210	64.0	33.9	236.2	72.0	7.7	3.5	—	—	—	—	—	—	—	—	—	—			
	220	67.1	27.8	219.5	66.9	6.9	3.1	—	—	—	—	—	—	—	—	—	—			
	230	70.1	19.9	197.0	60.0	6.2	2.8	—	—	—	—	—	—	—	—	—	—			

Capacities shown in thousand pounds and thousand kilograms.

① Measured vertically from center of luffing jib head sheave to ground.

HC-278H Luffing Crane Capacities - 80° Luffing Boom Angle

Refer to notes on page 10.

Luffing jib length	Lifting Capacities - 80° Luffing Boom Angle																	
	140' (42.67 m)				170' (51.82 m)				200' (60.96 m)				230' (67.03 m)					
	Luffing jib angle	Luffing boom point height	Lifting capacities	Luffing jib angle	Luffing boom point height	Lifting capacities	Luffing jib angle	Luffing boom point height	Lifting capacities	Luffing jib angle	Luffing boom point height	Lifting capacities	Luffing jib angle	Luffing boom point height	Lifting capacities			
Fl	m	Lbs.	kg	Deg.	Fl	m	Lbs.	kg	Deg.	Fl	m	Lbs.	kg	Deg.	Fl	m	Lbs.	kg
100' (30.48 m)	90	27.4	56.9	228.2	69.6	21.0	42.3	19.2	60.4	261.0	79.6	35.2	16.0	59.4	308.6	94.4	34.1	15.5
	100	30.5	50.9	221.6	67.5	20.5	36.7	16.6	55.3	255.6	77.9	35.2	16.0	55.9	308.1	93.0	29.9	13.6
	110	33.5	43.1	212.3	64.9	19.9	32.2	14.6	48.1	247.8	75.5	27.3	12.4	48.7	287.4	90.6	26.6	12.1
	120	36.6	34.0	199.8	60.9	18.1	28.6	13.0	39.9	237.5	72.4	24.8	11.2	40.6	287.3	87.6	24.0	10.9
	130	39.6	21.9	181.1	55.2	16.1	25.3	11.7	30.0	223.4	68.1	22.3	10.1	30.8	273.4	83.3	21.6	9.8
140' (42.67 m)	100	30.5	62.6	268.7	81.9	25.1	36.1	16.4	62.6	199.7	60.9	28.3	12.8	25.6	245.9	75.0	27.3	12.4
	110	33.5	58.5	263.4	80.3	24.5	31.5	14.3	60.3	195.7	58.5	25.3	11.5	25.6	245.9	75.0	27.3	12.4
	120	36.6	53.6	256.7	78.2	23.8	27.8	12.6	56.6	190.3	56.6	23.8	10.8	25.6	245.9	75.0	27.3	12.4
	130	39.6	48.4	248.8	75.8	22.6	25.2	11.4	51.6	183.2	51.6	21.7	9.8	25.6	245.9	75.0	27.3	12.4
	140	42.7	42.7	238.8	72.8	20.4	20.4	9.3	46.3	174.5	46.3	19.6	8.9	25.6	245.9	75.0	27.3	12.4
160' (48.77 m)	100	30.5	62.2	286.0	87.2	26.6	30.6	13.9	62.2	204.5	62.3	14.6	6.6	21.5	254.0	77.4	13.8	6.3
	110	33.5	58.7	280.7	85.6	26.0	26.9	12.2	60.2	193.0	58.5	14.6	6.6	21.5	254.0	77.4	13.8	6.3
	120	36.6	54.4	274.1	83.5	24.4	24.4	11.1	57.0	187.7	54.4	13.9	11.9	21.5	254.0	77.4	13.8	6.3
	130	39.6	49.9	266.4	81.2	21.8	21.8	9.9	52.7	180.7	51.1	12.8	10.6	21.5	254.0	77.4	13.8	6.3
	140	42.7	45.1	257.2	78.4	19.6	19.6	8.9	48.1	172.4	48.1	11.7	10.6	21.5	254.0	77.4	13.8	6.3
180' (54.91 m)	100	30.5	62.2	286.0	87.2	26.6	30.6	13.9	62.2	204.5	62.3	14.6	6.6	21.5	254.0	77.4	13.8	6.3
	110	33.5	58.7	280.7	85.6	26.0	26.9	12.2	60.2	193.0	58.5	14.6	6.6	21.5	254.0	77.4	13.8	6.3
	120	36.6	54.4	274.1	83.5	24.4	24.4	11.1	57.0	187.7	54.4	13.9	11.9	21.5	254.0	77.4	13.8	6.3
	130	39.6	49.9	266.4	81.2	21.8	21.8	9.9	52.7	180.7	51.1	12.8	10.6	21.5	254.0	77.4	13.8	6.3
	140	42.7	45.1	257.2	78.4	19.6	19.6	8.9	48.1	172.4	48.1	11.7	10.6	21.5	254.0	77.4	13.8	6.3
200' (60.96 m)	100	30.5	62.2	286.0	87.2	26.6	30.6	13.9	62.2	204.5	62.3	14.6	6.6	21.5	254.0	77.4	13.8	6.3
	110	33.5	58.7	280.7	85.6	26.0	26.9	12.2	60.2	193.0	58.5	14.6	6.6	21.5	254.0	77.4	13.8	6.3
	120	36.6	54.4	274.1	83.5	24.4	24.4	11.1	57.0	187.7	54.4	13.9	11.9	21.5	254.0	77.4	13.8	6.3
	130	39.6	49.9	266.4	81.2	21.8	21.8	9.9	52.7	180.7	51.1	12.8	10.6	21.5	254.0	77.4	13.8	6.3
	140	42.7	45.1	257.2	78.4	19.6	19.6	8.9	48.1	172.4	48.1	11.7	10.6	21.5	254.0	77.4	13.8	6.3
190'+30' (57.91 + 9.14 m)	100	30.5	62.2	286.0	87.2	26.6	30.6	13.9	62.2	204.5	62.3	14.6	6.6	21.5	254.0	77.4	13.8	6.3
	110	33.5	58.7	280.7	85.6	26.0	26.9	12.2	60.2	193.0	58.5	14.6	6.6	21.5	254.0	77.4	13.8	6.3
	120	36.6	54.4	274.1	83.5	24.4	24.4	11.1	57.0	187.7	54.4	13.9	11.9	21.5	254.0	77.4	13.8	6.3
	130	39.6	49.9	266.4	81.2	21.8	21.8	9.9	52.7	180.7	51.1	12.8	10.6	21.5	254.0	77.4	13.8	6.3
	140	42.7	45.1	257.2	78.4	19.6	19.6	8.9	48.1	172.4	48.1	11.7	10.6	21.5	254.0	77.4	13.8	6.3

Capacities shown in thousand pounds and thousand kilograms.
① Measured vertically from center of luffing jib head sheave to ground.

HC-278H Luffing Crane Lifting Capacity Notes

Lifting Capacity Notes:

1. Capacities shown are in thousands of pounds and are not more than 75% of tipping loads with machine standing level on firm supporting surface. A deduction must be made from these capacities for the weight of the hook block, hook, sling, load weighing device, etc. See Operator's Manual for all limitations when raising or lowering attachment. When using main hook while fixed jib is attached, reduce capacities by 3,500 lbs. (1 588 kg).

* Indicates these capacities are based on factors other than those which would cause a tipping condition.

2. The least stable rated position is over the side of the carrier.

3. For recommended reeving, parts of line, wire rope type, and wire rope inspection, see Operator's Manual and Parts Manual.

4. Load ratings on this chart are based on freely suspended loads and make no allowance for such factors as ground conditions, wind effect on the load, and operating speeds. The user therefore shall reduce load ratings in order to take these conditions into account.

5. For all operating conditions, the outrigger beams and all (5) outrigger jacks must be fully extended with tires clear of the ground and the crane in level position.

6. During attachment liftoff and lowering adequate blocking must be placed under the pontoons to adequately support the loading without settling, slipping or collapsing.

8. Refer to the Operator's Manual for instructions pertaining to assembly, raising and lowering of the attachment.

9. The luffing boom backstop collars must be assembled to the backstop bumpers when operating at the 85° luffing boom angle.

10. The fixed jib has only one length (30 ft. - 9.14 m) and only one offset with respect to the luffing jib (5°).

11. These capacities apply only to the machine as originally manufactured and normally equipped by Link-Belt Construction Equipment Company.

7.

Operation	Counterweight			
	Upper		Bumper	
	pounds	kg	pounds	kg
1. All capacity charts	98,200	44 544	26,700	12 111
2. All erection and lowering	98,200	44 544	26,700	12 111
3. Jobsite travel	98,200	44 544	26,700	12 111

Wind Speed Restrictions:

1. Failure to follow these wind speed restrictions may result in structural failure of the luffing jib and/or luffing boom, which would cause property damage and/or bodily injury.

2. The effects of the wind force on the hookload are the responsibility of the user and are not taken into account. When hoisting any load in windy conditions, the load wind area and load controllability must be considered for safe crane operation.

3.

Wind Speed Chart		
Description	Luffing Boom Lengths 140' - 200' (42.67 - 60.96 m)	Luffing Boom Lengths 210' - 250' (64.01 - 76.20 m)
Allowable Wind Speeds		
1. Normal Lifting Operation	0 - 25 mph (0 - 40.23 km/h)	0 - 20 mph (0 - 32.18 km/h)
2. No Operation *Store attachment	25 - 40 mph (40.23 - 64.36 km/h)	20 - 35 mph (32.18 - 56.32 km/h)
3. No Operation Store attachment on ground	Over 40 mph (Over 64.36 km/h)	Over 35 mph (Over 56.32 km/h)
4. Jobsite Travel (See jobsite travel charts)	0 - 20 mph (0 - 32.18 km/h)	0 - 15 mph (0 - 24.14 km/h)

- * The attachment must be stored in one of the following positions:
- Lay the luffing boom and luffing jib on the ground.
 - Tie off luffing boom tip to an immovable object. For details and information on the tie-off procedure, see Operator's Manual.