

Manitowoc 18000

Product Guide



Features

- 750 t (825 USt) capacity No. 55A boom with MAX-ER®
- 600 t (660 USt) capacity No. 55 boom
- 9 098 mton-m (65,505 ft-kips) maximum load moment with MAX-ER®
- 97,5 m (320 ft) No. 55 boom
- 149,3 m (490 ft) No. 79A luffing jib on No. 55 boom
- 447 kW (600 HP) engine

Features

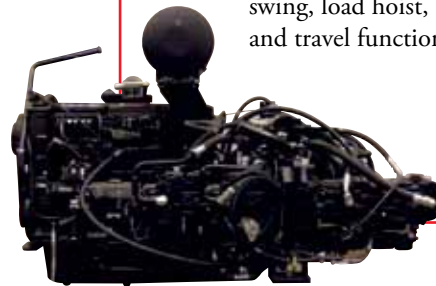


EPIC®

Manitowoc's field-proven Electronically Processed Independent Controls (EPIC) system delivers high productivity and precise load control by instantly matching a crane's commands to the crane function. EPIC's microprocessor maximizes a Manitowoc crane's function capability and simplifies servicing by pinpointing any problem in the crane's engine, power transmission and other operating systems. In addition, EPIC increases versatility by easily tailoring a Manitowoc crane's operation for specialized applications, with or without attachments. EPIC is a key reason no other crane can match the performance and reliability of Manitowoc.

Hydraulics

Our closed-loop system provides a separate hydraulic circuit to power each crane function. The result is truly independent, variable-speed operation of the swing, load hoist, boom hoist and travel functions.



FACT™ Connectors

Manitowoc's Fast Aligning Connection Technology (FACT) automatically aligns crane components for fast, easy assembly.



Crawler Drive Shafts

These eliminate the need to disconnect hydraulic systems for shipment—simplifying crawler removal and assembly.

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Specifications

Upperworks



Engine

Cummins Model QSX 15 Diesel, 6 cylinder, 447 kW (600 BHP) @ 1800 governed RPM.

Includes engine block heater (120V), ether starting aid, transmission disconnect clutch for cold weather starting, high silencing muffler, hydraulic oil cooler, radiator and fan.

Multiple hydraulic pump drive transmission provides independent power for all machine functions.

Two 12 volt maintenance-free batteries, 1 300 CCA at -18°C (0° F), 24 volt system and 75 amp alternator.

One diesel fuel tank, 1 040 l (275 gal.), mounted on rear of upperworks, with level indicator in operator's cab.

➤ Optional: Cold-weather package with heater for fluids, brake pedals, batteries and computer display.



Controls

Modulating electronic-over-hydraulic controls provide infinite speed response directly proportional to control lever movement. Controls include Manitowoc's exclusive EPIC® (Electronically Processed Independent Control) system with CAN-BUS technology providing microprocessor driven control logic, pump control, on-board diagnostics, and service information.

Block-up limit control is standard for hoist and whip lines.

Integrated wireless Load Moment Indicator system (LMI) offers standard load link for main boom and upper boom point. "Function cut-out" or "warning only" operation is selected via the Operator Interface Display on the LMI console.

Travel and swing alarms are standard.

➤ Optional: Anemometer (wind speed indicator). Booms and jibs are prewired for anemometer.



Hydraulic system

Multiple high-pressure piston pumps, driven by a multi-pump transmission, provide independent closed-loop hydraulic power for the hoisting drums, boom hoist, swing, left crawler and right crawler.

Hydraulic reservoir has a capacity of 1 188l (314 gal.) and is equipped with a breather, clean out access, and internal diffuser.

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

System includes oil cooler and replaceable, ten-micron absolute full flow filter. All oil is filtered before entering the hydraulic pumps.

System	kg/cm ² (psi)	lpm (gpm)
Main Hoisting Drum 1	422 (6,000)	747 (200)
Main Hoisting Drum 2	422 (6,000)	747 (200)
Whip Drum	422 (6,000)	378 (100)
Boom Hoist	422 (6,000)	605 (160)
Standard Dual Swing	422 (6,000)	302 (80)
Quad Swing	422 (6,000)	605 (160)
Left Crawler	422 (6,000)	378 (100)
Right Crawler	422 (6,000)	378 (100)
Mast Hoist	422 (6,000)	378 (100)
Optional Luffing Hoist	422 (6,000)	605 (160)

Hydraulic system also includes pump transmission disconnect and hydraulic oil cooler.



Drums

Basic machine is equipped with one (No. 55/79A Boom) or two (No. 55 or No. 55A Boom) 124,8 cm (49-1/8") wide, 64,5 cm (25-3/8") diameter hoist drums, one in the 3,0 m (10') boom insert and one in the boom butt. Each end of each drum is driven by a variable-displacement hydraulic motor through a planetary reduction. Each drum drive is equipped with a bi-directional drum brake. Whip drum is 82,2 cm (32-3/8") wide and 64,1 cm (25-1/4") diameter, grooved for 28 mm wire rope and driven by a variable-displacement hydraulic motor through a planetary reduction. Drum rotation indicator for each drum is standard. Bolt-on (shell-type) 124,8 cm (49-1/8") laggings for 28 mm or 32 mm dia. wire rope for liftcrane applications.



Swing system

Bearing adapter-mounted independent swing is powered by a fixed-displacement hydraulic motor coupled to an internal brake and planetary reduction. Includes Manitowoc Patented swing lock.

Two swing drives required for standard machine configuration. Four swing drives required for MAX-ER®.

Swing system maximum speed: 1.2 rpm.

Specifications



Mast hoist system

Single drum mast hoist mounted in rotating bed is powered by a fixed displacement hydraulic motor and a planetary reduction gear box with internal brake. Ratcheting pawl is standard. Includes mast-hoist wire rope.



Boom hoist system

Independent boom hoist, mounted in the mast butt has grooved drum 1 168 mm (46") wide and 1 355 mm (53-3/8") diameter.

Each end of drum is powered by a variable-displacement hydraulic motor coupled to a planetary reduction gearbox with internal brake. Ratcheting pawl, rotation indicator, pressure roller and wire rope for 16-part boom hoist line are standard.

Boom hoist speed: raise 121,9 m (400') No. 55/79A main boom from 0°- 82° in 6 minutes, 6 seconds. Raise 97,5 m (320') No. 55 main boom from 0°- 82° in 6 minutes, 18 seconds.



Boom support system

Moving Mast

Moving mast is 9,1m (30') long and connects to the fixed mast suspension rigging. When used with the optional self-erect package, the mast is utilized for crane assembly and disassembly. It is capable of lifting and positioning the crawler assemblies.

Fixed Mast

Stationary No. 56 lattice mast provides geometry to raise and support all boom lengths. 30,5 m (100') mast standard for basic crane; 42,7 m (140') mast required for MAX-ER® applications. Boom-hoist rope reeved from drum in mast butt through sheaves in mast top and boom-hoist equalizer forms 16-part boom-hoist rigging. High-strength steel straps connect equalizer to boom top.

Cushioned boom stop and automatic boom stop are standard.



Counterweight

Qty.	Item	Unit Weight		Total Weight	
		kg	lb	kg	lb
6 2	Carbody Lower Box Tray	19 958	44,000	119 748	264 000
		12 700	28,000	25 400	56,000
Carbody total				145 150	320,000
28 2	Upperworks Upper Box Tray	8 165	18,000	228 615	504,000
		4 443	12,000	10,886	24,000
Upperworks total				239 497	528,000
Counterweight Total				384 647	848,000

Includes connecting pins, brackets, and stops.



Vision operator's cab

The Vision Cab™ is a fully enclosed and insulated steel module mounted to the left front corner of rotating bed. Module is equipped with power tilt, sliding door, large safety glass windows on all sides and roof. Signal horn, power seat, all season climate control package, front and roof windshield wipers, dome light, sun visor and shade, fire extinguisher, swing and travel alarms, and radio/CD player are standard equipment. Operator's station swings over front of rotating bed for transportation.

Lowerworks



Carbody

Connects rotating bed and crawler frames. Fabricated steel rotating bed lower module mounts to single-piece carbody by a 3 m (9' 10") diameter triple-row roller bearing turntable. Each crawler frame is mounted to the carbody with FACT™ connection system power-actuated pins. Crawler drive motors are mounted on carbody, permitting crawler removal without opening travel drive hydraulic circuit.



Crawlers

Crawler assemblies are 11,81 m (38' 9") long with 1,52 m (5') wide cast steel crawler pads and lubricated intermediate rollers. Each crawler is powered independently by two variable displacement hydraulic motors and includes two hydraulically powered pin actuators for fast installation and removal from carbody. Carbody mounted drive motors are connected to crawler final reduction via drive shafts. Crawlers provide ample tractive effort allowing counter-rotation with full rated load.

Maximum ground speed is 1,1 kph (0.7 mph).

Specifications

Attachments

No. 55-79A boom

The liftcrane is equipped with a 36,6 m (120') No. 55/79A tubular-chord boom consisting of a 6,1 m (20') No. 55 or No. 55A butt, 3,0 m (10') No. 55 or No. 55A insert, 6,1 m (20') No. 55 or No. 55A insert, 12,2 m (40') No. 55/79 transition insert with equalizer platform, and 9,1 m (30') No. 79A heavy-lift top with sixteen 762 mm (30") diameter roller bearing sheaves on one shaft. Includes rope guides, boom angle indicator, and a 27,2 t (30 USt) swivel hook and weight ball weighing 1270 kgs (2,800 lbs) for 28 mm or 32 mm wire rope. The No. 55/79A boom utilizes steel suspension straps and Manitowoc's exclusive FACT™ connection system.

Powered boom hinge system including cylinder, piping, operating controls, and locking device are standard.

Luffing jib preparation is standard.

- Optional: 6,1 m (20'), and 12,2 m (40') No. 79 boom inserts with steel boom suspension straps, and FACT™ connection system.
- Optional: 12,2 m (40') No. 55 or No. 55A boom insert with steel boom suspension straps, and FACT™ connection system.
- Optional: 12,2 m (40') No. 55 or No. 55A boom insert with luffing drum sheaves, steel boom suspension straps, and FACT™ connection system.
- Optional: Intermediate suspension, required for boom lengths of 109,7 m (360') or more.
- Optional: Detachable upper boom point with one 762 mm (30") diameter tapered roller bearing steel sheave with rope guard, for liftcrane use on heavy-lift boom top. (Same upper point used on Models 555, 777, 777T, 888, M-250, and 2250.)
- Optional: Extended upper boom point on boom 55/79A.

Utilize optional boom inserts in combination with the No. 55/79A basic boom for total lengths up to 121,9 m (400').

No. 55 or No. 55A boom

The liftcrane is equipped with a 36,6 m (120') No. 55 or No. 55A tubular-chord boom consisting of a 6,1 m (20') No. 55 or No. 55A butt, 3,0 m (10') No. 55 or No. 55A insert, 6,1 m (20') No. 55 or No. 55A insert, 12,2 m (40') No. 55 or No. 55A insert with equalizer platform, and 9,1 m (30') No. 55 or No. 55A heavy-lift top with sixteen 762 mm (30") diameter roller bearing sheaves on one shaft. Includes rope guides, boom angle indicator, and a 27,2 mT (30 ton) swivel hook and weight ball weighing 1270 kgs (2,800 lbs.). The No. 55 or No. 55A boom utilizes steel suspension straps and Manitowoc's exclusive FACT™ connection system.

Powered boom hinge system including cylinder, piping, operating controls, and locking device are standard.

Luffing jib preparation is standard.

- Optional: 6,1 m (20'), 12,2 m (40') No. 55 or No. 55A boom inserts, and 12,2 m (40') No. 55 or No. 55A medium boom inserts with steel boom suspension straps, and FACT™ connection system.
- Optional: 12,2 m (40') No. 55 or No. 55A boom insert with luffing drum sheaves, steel boom suspension straps, and FACT™ connection system.
- Optional: Detachable upper boom point with one 762 mm (30") diameter tapered roller bearing steel sheave with rope guard, for liftcrane use on heavy-lift boom top. (Same upper point used on Models 555, 777, 777T, 888, M-250, and 2250.)
- Optional: Detachable upper boom point with one 762 mm (30") diameter tapered roller bearing steel sheave with rope guard, for liftcrane use on No. 55 boom top or 79A luffing jib top.

Utilize optional boom inserts in combination with the No. 55 or No. 55A basic boom for total lengths up to 97,5 m (320').

Specifications



No. 44 luffing jib

➤ Optional: Components to make up 21,3 m (70') basic luffing jib include a 12,2 m (40') No. 44 butt, 9,1 m (30') No. 44 top, 15,2 m (50') jib strut with 7 sheaves, 14,3 m (47') main strut with 7 sheaves, jib strut stop, luffing jib stop, main luffing strut backstay straps, basic luffing jib steel rigging straps, combination upper point and luffing jib raising wheel, luffing drum assembly, 495 m (1625') luffing drum wire rope, and wire rope guide(s) as required.

➤ Optional: 3,0 m (10'), 6,1 m (20'), and 12,2 m (40') No. 44 inserts with steel boom suspension straps.

Utilize optional luffing jib inserts in combination with the No. 44 basic luffing jib for total lengths up to 73,1 m (240').

Note: Basic luffing jib 12,2 m (40') No. 44 boom butt and 9,1 m (30') No. 44 boom top can be used from 2250 liftcrane. Luffing jib also uses No. 44 boom inserts and straps from 2250 liftcrane for luffing jib lengths greater than 21,3 m (70').

No. 79A luffing jib

➤ Optional: Components to make up 21,3 m (90') basic luffing jib includes a 6,1 m (20') No. 79A butt, 12,2 m (40') No. 79 insert, 9,1 m (30') No. 79A top, jib strut, main strut, main jib strut stop, luffing jib stop, main luffing strut backstay straps, basic luffing jib steel rigging straps, upper point, luffing jib raising dolly, luffing drum assembly, luffing drum wire rope, and wire rope guide(s) as required.

➤ Optional: 6,1 m (20'), and 12,2 m (40') No. 79 inserts with steel boom suspension straps, and FACT™ connection system.

Utilize optional luffing jib inserts in combination with the No. 79A basic luffing jib for total lengths up to 94,5 m (310').

Note: Basic luffing jib 9,1 m (30') No. 79A boom top can be used from No. 55-79A boom. Luffing jib also uses No. 79 boom inserts and straps from MAX-ER® 2000 liftcrane.



No. 79A fixed jib

➤ Optional: Components to make up 15,2 m (50') basic fixed jib includes a 6,1 m (20') No. 79A butt, 9,1 m (30') No. 79A top, jib strut, backstay straps and jib support straps.

➤ Optional: 6,1 m (20'), and 12,2 m (40') No. 79 inserts with steel boom suspension straps, and FACT™ connection system.

Utilize optional fixed jib inserts in combination with the No. 79A basic fixed jib for total lengths up to 33,5 m (110').

Note: Basic fixed jib 9,1 m (30') No. 79A boom top can be used from No. 55-79A boom. Fixed jib also uses No. 79 boom inserts and straps from MAX-ER® 2000 liftcrane.



The MAX-ER®

The MAX-ER® attachment components include:

One 12,2 m (40') No. 56 insert, added to increase the mast length to 42,7 m (140').

Two additional swing drives (for a total of four) mounted on the rotating module. Each swing drive is powered by a fixed-displacement hydraulic motor coupled to a planetary reduction gearbox and internal brake.

A wheeled or hanging MAX-ER® counterweight assembly attaches to the top of the mast by steel straps and to the rear of the upperworks by a shear-frame and to the top of the moving mast by steel straps for the 12,1 m (40') counterweight position.

The hanging MAX-ER® counterweight is 18 m (59') behind the crane's centerline of rotation, and the wheeled MAX-ER® counterweight is 12,1 m (40') or 18 m (59') behind the crane's centerline of rotation.

The wheeled counterweight uses large off-road tires, which can be positioned for traveling or swinging. It also includes hydraulic support jacks and pads.

Specifications

Optional equipment

➤ Optional: Self-erect system, includes: rotating bed jacking cylinders with pads, wireless controls, 91 t (100 ton) assembly block, crawler handling chains.

➤ Optional: Blocks and Hooks

27,2 t (30 USt) swivel hook and weight ball 1 270 kgs (2,800 lb) for 28 mm or 32 mm wire rope.

250 t (275 UST) hook block 3 969 kgs (8,750 lbs) with nine 76,2 cm (30") dia. roller bearing sheaves and duplex roller bearing swivel hook with hook latch and swivel lock for 28 mm or 32 mm wire rope.

317 t (350 UST) hook block 7892 kgs (17,400 lbs) with nine 76,2 cm (30") dia. roller bearing sheaves and duplex roller bearing swivel hook with hook latch and swivel lock for 28 mm or 32 mm wire rope.

410 t (450USt) hook block 9 661 kgs (21,300 lbs) with thirteen 76,2 cm (30") dia. roller bearing sheaves and duplex roller bearing swivel hook, hook latch, and swivel lock. For 28 mm 32 mm wire rope.

450 t (500 USt) hook block 11 113 kgs (24,500 lbs) with fifteen 76,2 cm (30") dia. roller bearing sheaves and duplex roller bearing swivel hook, hook latch and swivel lock for 28 mm or 32 mm wire rope.

600 t (660 USt) hook block 11 385 kgs (25,100 lbs) with fifteen 76,2 cm (30") dia. roller bearing sheaves and duplex roller bearing swivel hook, hook latch and swivel lock for 28 mm or 32 mm wire rope.

700 t (770 USt) hook block 12 972 kgs (28,600 lbs) with seventeen 76,2 cm (30") dia. roller bearing sheaves and duplex roller bearing swivel hook, hook latch and swivel lock for 28 mm or 32 mm wire rope.

➤ Optional: Preparation for MAX-ER®.

➤ Optional: Hydraulic Test Kit: required to properly analyze the performance of the EPIC® control system.

➤ Optional: Service Interval Kits: for the regularly scheduled maintenance of general crane operations.

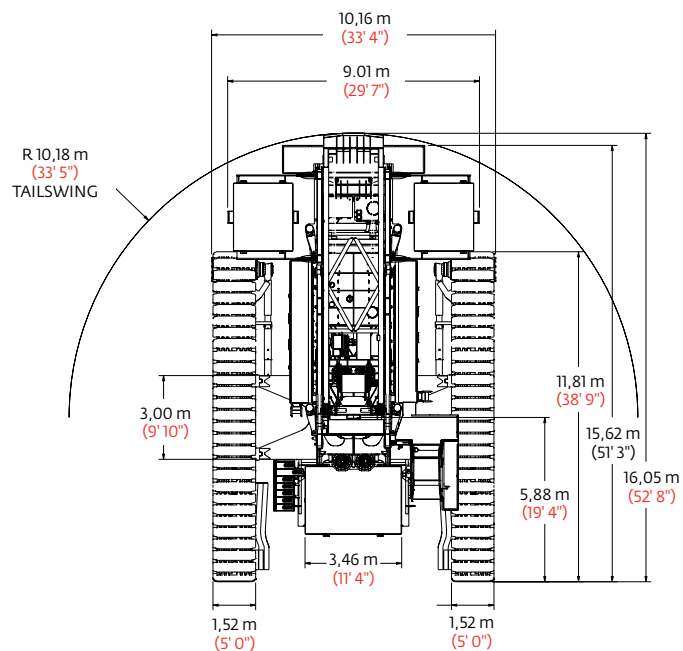
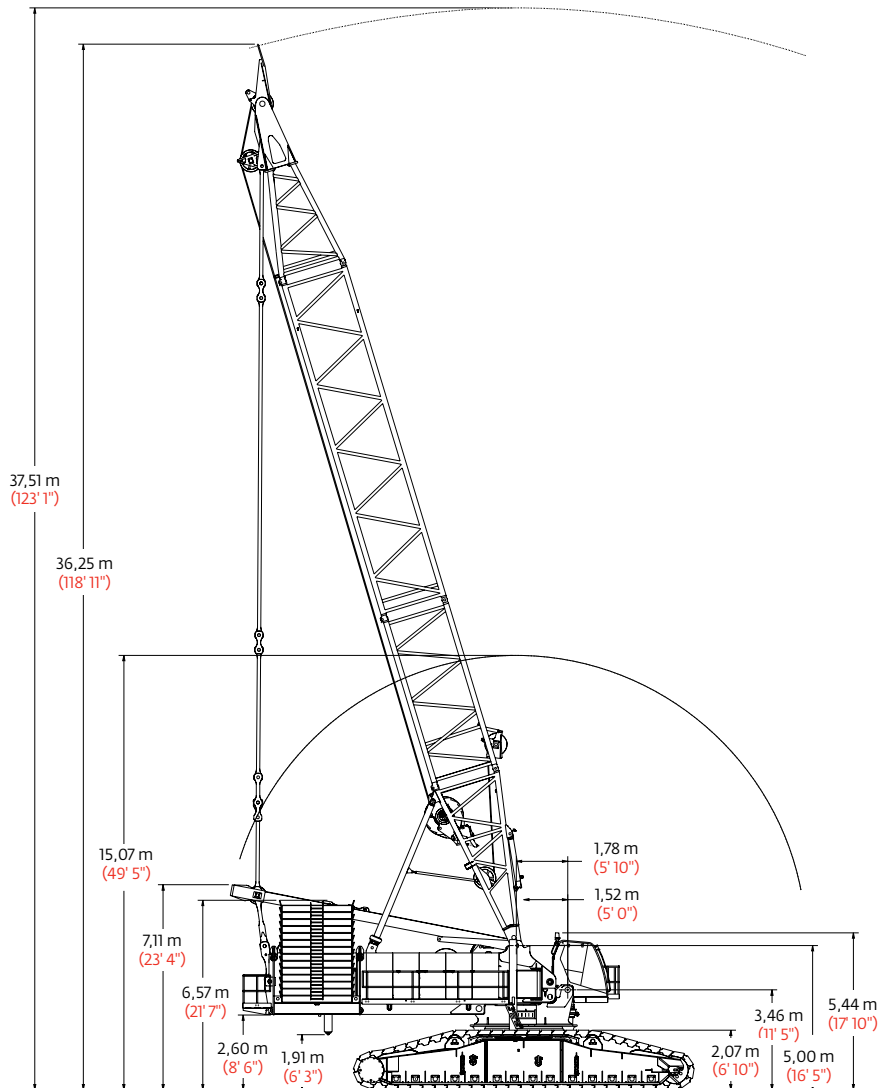
➤ Optional: Lighting Packages: consult Factory for available options.

➤ Optional: Special Paint – color(s) other than Manitowoc standard red and black.

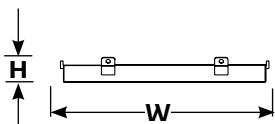
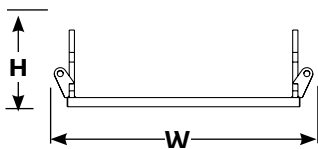
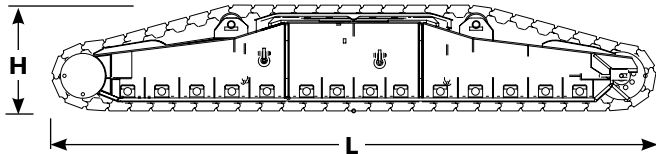
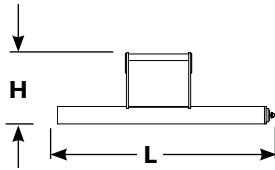
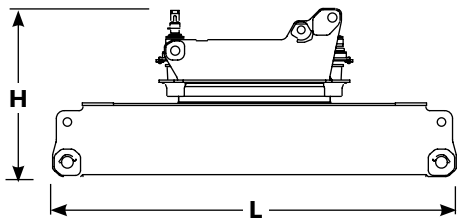
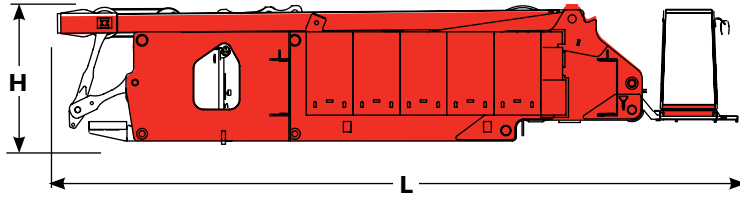
➤ Optional: Custom vinyl decal(s) of customer name and/or logo from artwork supplied by customer.

➤ Optional: Export Packaging: basic crane, boom and jib sections. MAX-ER® export packaging available.

Outline dimensions



Outline dimensions



Liftcrane

Length	13,59 m	44' 8"
Width	3,00 m	9' 10"
Height	2,69 m	8' 10"
Weight	47 370 kg	104,434 lb
Weight	40 068 kg	88,335 lb

Note: Weight 1 includes rotating bed rear section with pin pullers, counterweight, live mast, mast-hoist with wire rope, maximum hoist and whip lines on drums, Cummins QSX15 powerplant upperworks jacking system, full hydraulic fluid reservoir, and half tank of fuel.

Weight 2 is with upperworks jacking system removed.

Carbody and rotating bed

Length	7,89 m	25' 11"
Width	3,00 m	9' 10"
Height	3,33 m	11' 0"
Weight	43 499 kg	95,900 lb

Note: Weight includes rotating bed adapter frame with bearing turntable, four swing drives, and carbody.

Upperworks jacks

x 4

Length	3,29 m	10' 10"
Width	1,14 m	3' 9"
Height	0,31 m	1' 1"
Weight	1 826 kg	4,025 lb

Note: Shown in horizontal, retracted shipping position.

Crawlers

x 2

Length	11,81 m	38' 9"
Width	2,20 m	7' 3"
Height	2,07 m	6' 10"
Weight	40 031 kg	88,225 lb

Carbody counterweight tray

x 2

Length	4,42 m	14' 6"
Width	2,39 m	7' 10"
Height	1,30 m	4' 4"
Weight	12 700 kg	28,000 lb

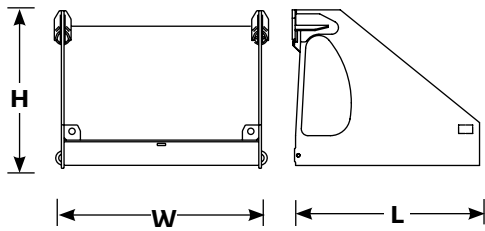
Lower counterweight

x 6

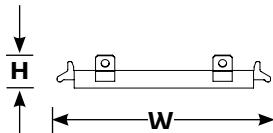
Length	2,59 m	8' 6"
Width	3,56 m	11' 8"
Height	0,51 m	1' 8"
Weight	19 958 kg	44,000 lb

▶ Option

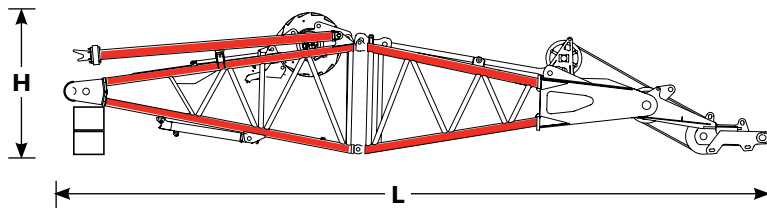
Outline dimensions



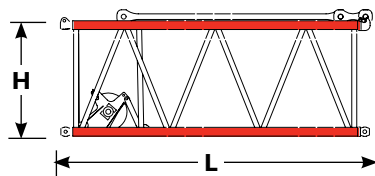
Upper counterweight tray		x 2
Length	2,84 m	9' 4"
Width	3,24 m	10' 8"
Height	2,38 m	7' 10"
Weight	5 465 kg	12,050 lb



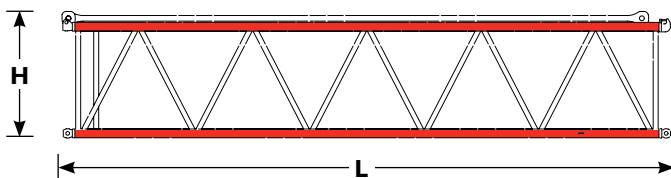
Upper counterweight		x 28
Length	2,54 m	8' 4"
Width	2,61 m	8' 7"
Height	0,41 m	1' 4"
Weight	8 164 kg	18,000 lb



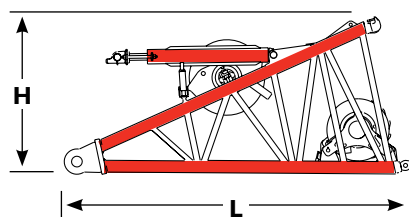
No. 56 mast butt and top package, drum, wire rope, equalizer		x 1
Length	15,11 m	49' 7"
Width	3,00 m	9' 10"
Height	2,79 m	9' 2"
Weight	26 251 kg	57,875 lb



No. 56 mast insert 6,1 m (20') and straps		x 1
Length	6,30 m	20' 8"
Width	3,00 m	8' 6"
Height	2,49 m	9' 10"
Weight	3 850 kg	8,490 lb



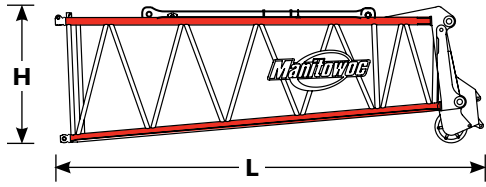
No. 56 mast insert 12,2 m (40') and straps		x 1
Length	12,45 m	40' 10"
Width	3,00 m	8' 6"
Height	2,49 m	9' 10"
Weight	6 323 kg	13,940 lb



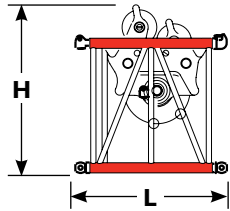
No. 55 or No. 55A boom butt 6,1 m (20') with drum, rigging winch and wire rope		x 1
Length	6,62 m	21' 9"
Width	3,00 m	9' 10"
Height	3,10 m	10' 2"
Weight	26 251 kg	57,875 lb

Option

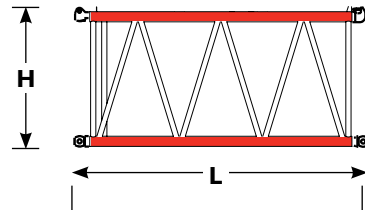
Outline dimensions



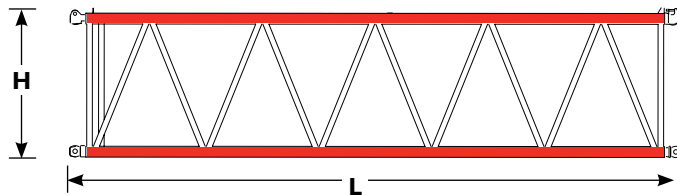
No. 55 or No. 55A boom top		
9,1 m (30')		
		x 1
Length	10,09 m	33' 2"
Width	3,00 m	10' 6"
Height	3,10 m	11' 4"
Weight	17 137 kg	37,781 lb



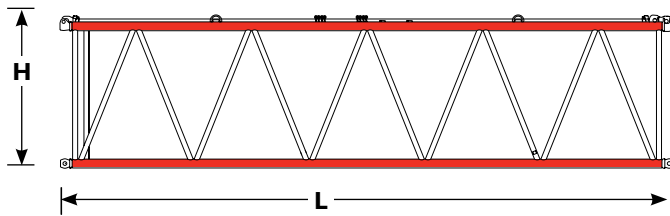
No. 55 or No. 55A boom insert		
3,0 m (10') with drum and wire rope		
		x 1
Length	6,35 m	20' 10"
Width	3,00 m	9' 10"
Height	3,10 m	10' 2"
Weight	16,311 kg	35,960 lb



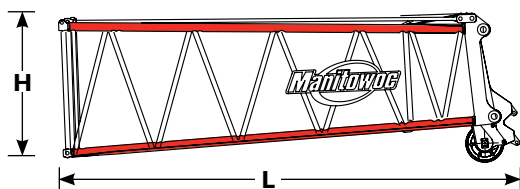
No. 55 or No. 55A boom insert		
6,1 m (20')		
		x 1
Length	6,35 m	20' 10"
Width	3,00 m	9' 10"
Height	3,10 m	10' 2"
Weight	4 860 kg	10,715 lb



No. 55 or No. 55A boom insert		
12,2 m (40')		
		x 1
Length	12,37 m	40' 7"
Width	3,00 m	9' 10"
Height	3,10 m	10' 2"
Weight	8 384 kg	18,485 lb



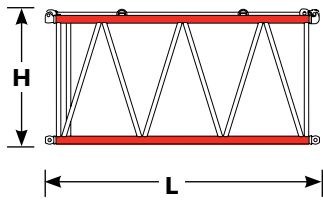
No. 55/79A transition insert		
and straps 12,2 m (40')		
		x 1
Length	12,37 m	40' 7"
Width	3,00 m	9' 10"
Height	3,10 m	10' 2"
Weight	8 908 kg	19,640 lb



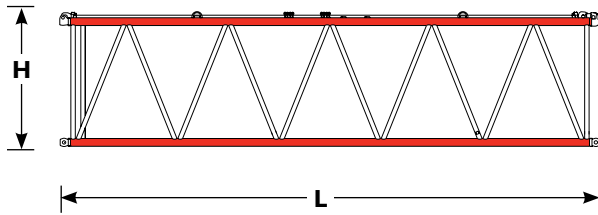
No. 79A boom top 9,1 m (30')		
		x 1
Length	10,05 m	33' 0"
Width	3,00 m	9' 10"
Height	3,10 m	11' 3"
Weight	12 625 kg	27,835 lb

Option

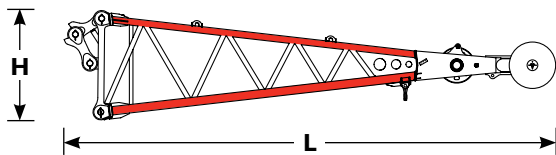
Outline dimensions



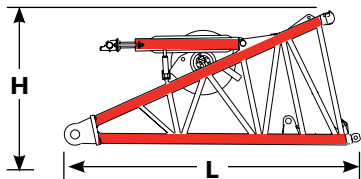
No. 79 boom insert 6,1 m (20')	x 1
Length	6,27 m 20' 7"
Width	3,00 m 9' 10"
Height	3,09 m 10' 2"
Weight	3 553 kg 7,835 lb



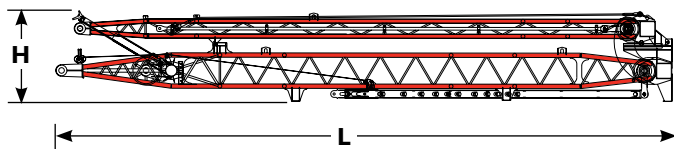
No. 79 boom insert 12,2 m (40')	x 1
Length	12,37 m 40' 7"
Width	3,00 m 9' 10"
Height	3,09 m 10' 2"
Weight	5 978 kg 13,180 lb



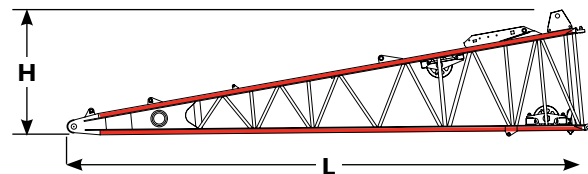
Extended upper boom point 7,6 m (25')	x 1
Length	10,49 m 34' 5"
Width	2,70 m 8' 10"
Height	2,34 m 7' 8"
Weight	5 198 kg 11,460 lb



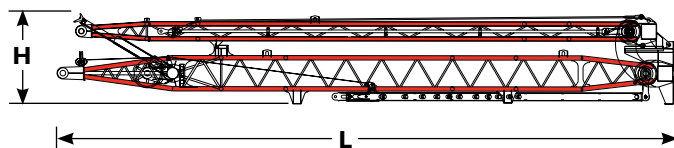
No. 79 luffing jib butt 6,1 m (20')	x 1
Length	6,63 m 21' 9"
Width	3,00 m 9' 10"
Height	3,09 m 10' 2"
Weight	13 527 kg 29,822 lb



No. 79 luffing jib main masts 12,2 m (40')	x 1
Length	16,15 m 53' 0"
Width	2,51 m 8' 3"
Height	2,36 m 7' 9"
Weight	10 544 kg 23,245 lb



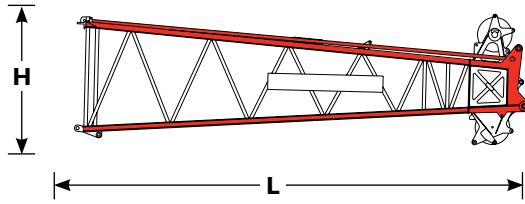
No. 44 luffing jib butt 12,2 m (40')	x 1
Length	12,78 m 41' 11"
Width	3,00 m 9' 10"
Height	3,00 m 9' 10"
Weight	5 194 kg 11,450 lb



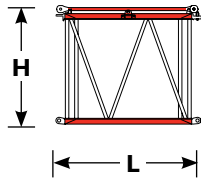
No. 44 luffing jib masts 12,2 m (40')	x 1
Length	16,15 m 53' 0"
Width	2,51 m 8' 3"
Height	2,36 m 7' 9"
Weight	10 544 kg 23,245 lb

Option

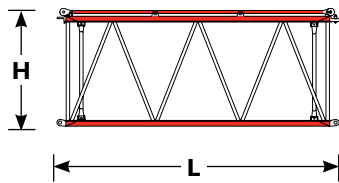
Outline dimensions



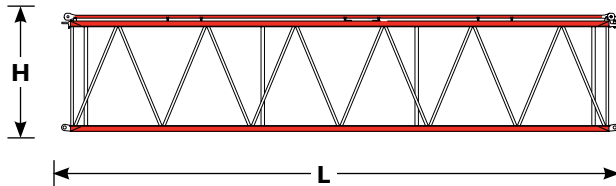
No. 44 boom top 9,1 m (30') and wire rope guide, straps, lower point	x 1	
Length	10,06 m	33' 0"
Width	2,59 m	8' 6"
Height	2,90 m	9' 6"
Weight	5 657 kg	12,475 lb



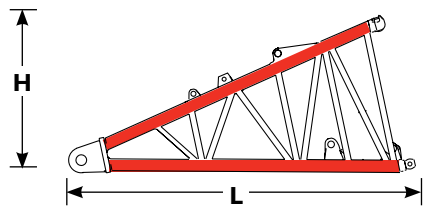
No. 44 luffing jib insert 3,0 m (10')	x 1	
Length	3,23 m	10' 7"
Width	2,59 m	8' 6"
Height	2,59 m	8' 6"
Weight	857 kg	1,890 lb



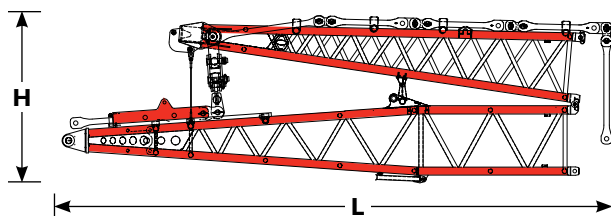
No. 44 luffing jib insert 6,1 m (20')	x 1	
Length	6,28 m	20' 7"
Width	2,59 m	8' 6"
Height	2,59 m	8' 6"
Weight	1 458 kg	3,215 lb



No. 44 luffing jib insert 12,2 m (40')	x 1	
Length	12,38 m	40' 7"
Width	2,59 m	8' 6"
Height	2,59 m	8' 6"
Weight	2 458 kg	5,420 lb



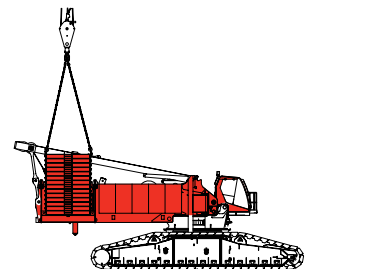
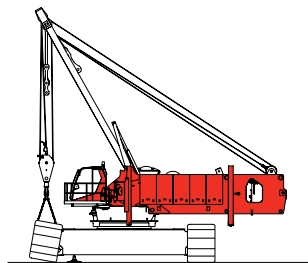
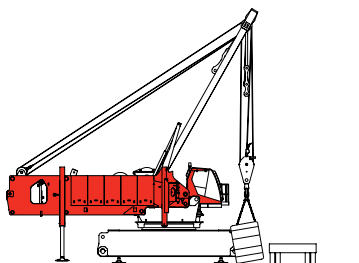
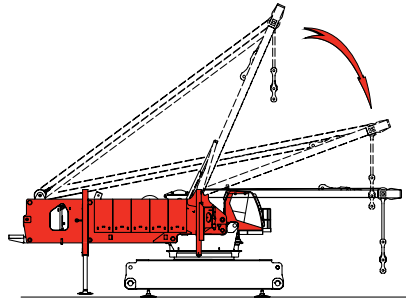
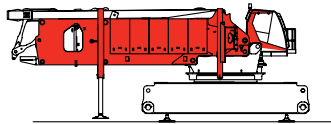
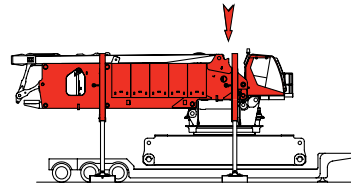
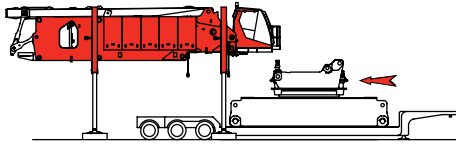
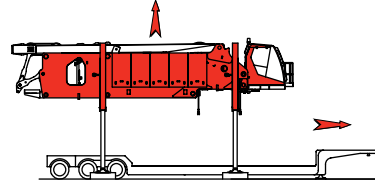
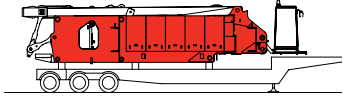
No. 79A fixed jib butt 6,1 m (20')	x 1	
Length	6,52 m	21' 5"
Width	3,00 m	9' 10"
Height	3,02 m	9' 11"
Weight	4 482 kg	9,880 lb



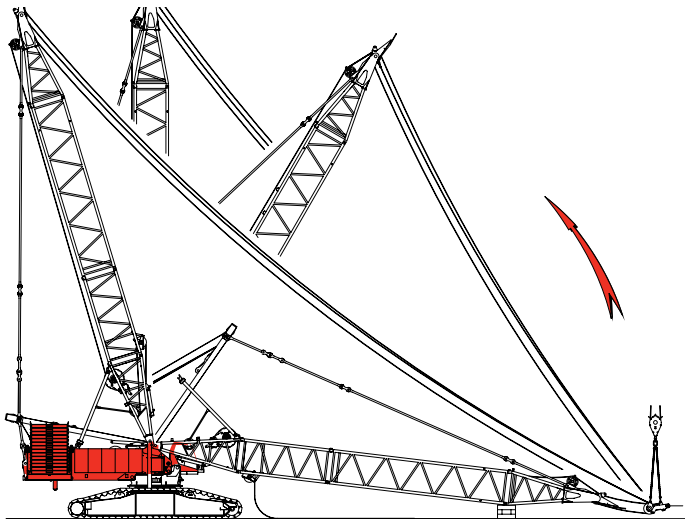
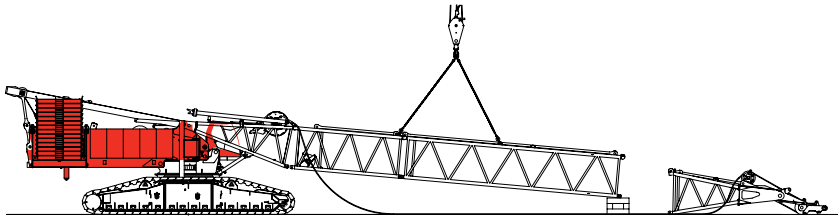
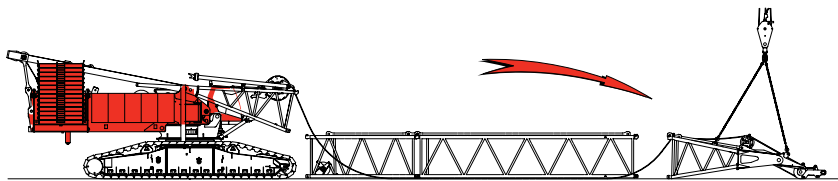
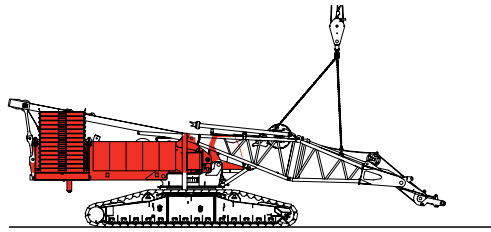
No. 79A fixed jib strut 12,2 m (40')	x 1	
Length	9,61 m	31' 6"
Width	2,97 m	9' 9"
Height	2,92 m	9' 7"
Weight	622 kg	16,802 lb

Option

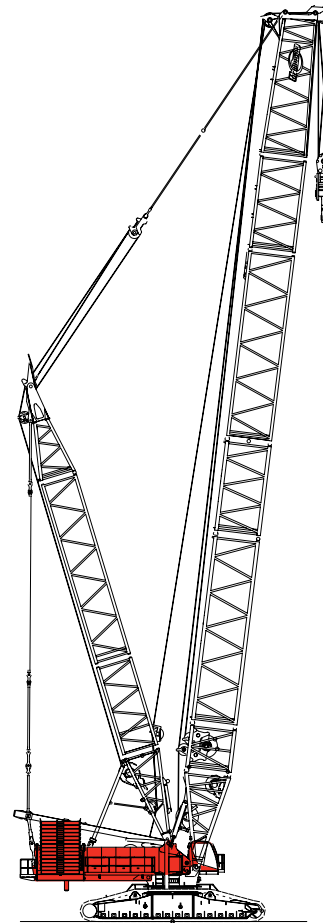
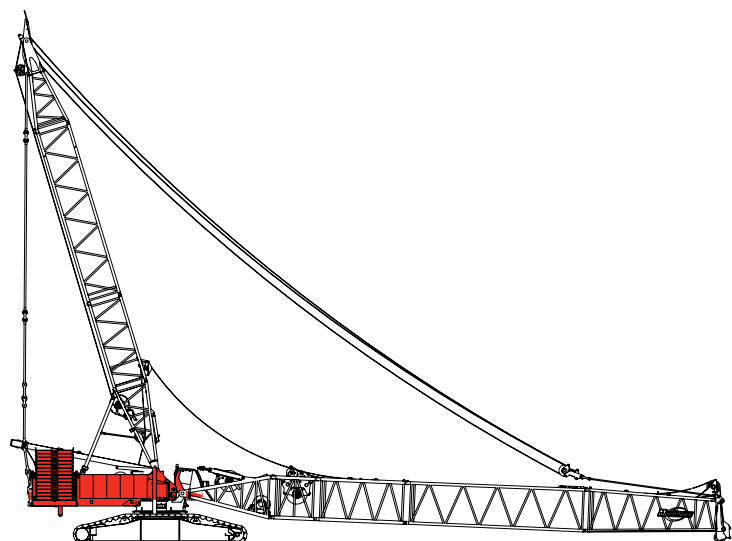
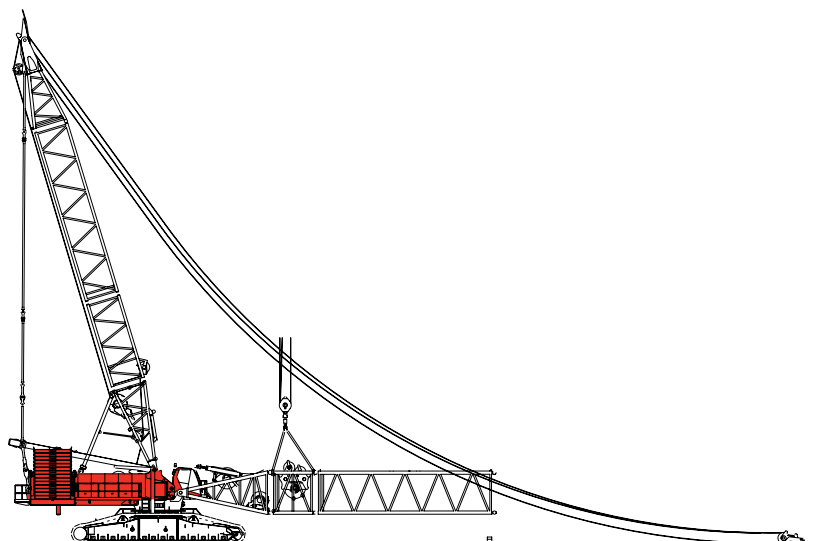
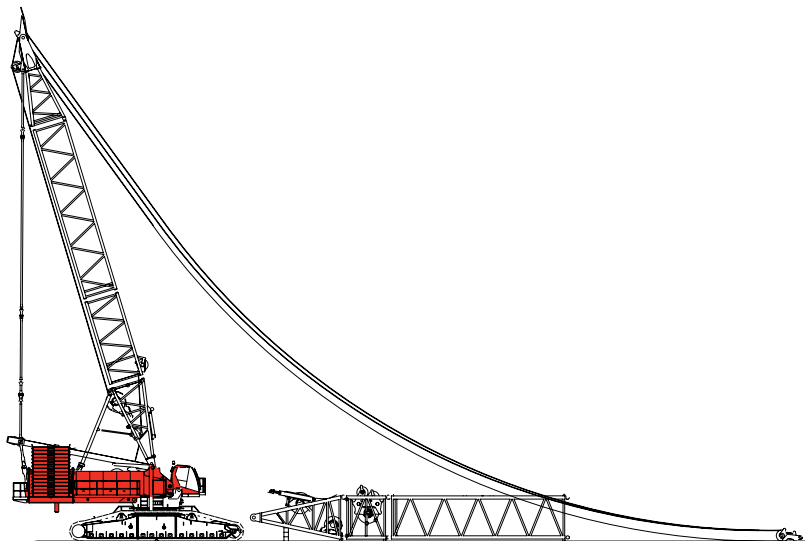
Crane assembly



Crane assembly



Crane assembly



Performance data

Wire rope lengths - tandem drums - 28 mm hoist line boom No. 55 or No. 55A

Boom or boom and fixed jib length	Whip line				Hoist line				Total parts of line
	Drum 3 (1 part of line)		Drum 3 (2 parts of line)		Drum 1		Drum 2		
	m	(ft)	m	(ft)	m	(ft)	m	(ft)	
36,6 (120)	91	(300)	130	(425)	579	(1900)	579	(1900)	28
42,7 (140)	99	(325)	145	(475)	671	(2200)	671	(2200)	28
48,8 (160)	114	(375)	168	(550)	762	(2500)	762	(2500)	28
54,9 (180)	122	(400)	183	(600)	853	(2800)	853	(2800)	28
61,0 (200)	137	(450)	206	(675)	853	(2800)	853	(2800)	24
67,1 (220)	152	(500)	221	(725)	914	(3000)	914	(3000)	24
73,2 (240)	160	(525)	236	(775)	975	(3200)	975	(3200)	24
79,2 (260)	175	(575)	259	(850)	975	(3200)	975	(3200)	20
85,3 (280)	183	(600)	274	(900)	975	(3200)	975	(3200)	20
91,4 (300)	198	(650)	297	(975)	975	(3200)	975	(3200)	16
97,5 (320)	213	(700)	312	(1025)	975	(3200)	975	(3200)	16

NOTE: Above hoist line lengths are based on tandem drums both reeved to the main load block. Each drum is dead-ended in main load block reeving. Total parts of line requires using both drums 1 and 2. Hoist and whip line lengths will allow hook to touch ground. When block travel below ground is required, add additional rope equal to parts of the line times the added travel distance. Hoisting distance or line pull may be limited when block travel below ground is required.

Hoist reeving for main load block two lead lines - 28 mm boom No. 55 or No. 55A

No. parts of line	Maximum load	
	kg	(lb)
8	130 180	287,000
12	195 270	430,500
16	260 360	574,000
20	325 500	717,600
24	390 540	861,000
28	455 600	1,004,600

Wire rope lengths - single hoist drum - 28 mm hoist line boom No. 55 or No. 55A

Boom length	Whip line - drum 2 or 3				Hoist line - drum 1		Maximum parts of line for full hoisting range
	1 part		2 part				
	m	(ft)	m	(ft)	m	(ft)	
36,6 (120)	91	(300)	130	(425)	1189	(3900)	30
42,7 (140)	99	(325)	145	(475)	1372	(4500)	30
48,8 (160)	114	(375)	168	(550)	1463	(4800)	28
54,9 (180)	122	(400)	183	(600)	1463	(4800)	24
61,0 (200)	137	(450)	206	(675)	1463	(4800)	22
67,1 (220)	152	(500)	221	(725)	1463	(4800)	20
73,2 (240)	160	(525)	236	(775)	1463	(4800)	18
79,2 (260)	175	(575)	259	(850)	1463	(4800)	16
85,3 (280)	183	(600)	274	(900)	1463	(4800)	14
91,4 (300)	198	(650)	297	(975)	1463	(4800)	14
97,5 (320)	213	(700)	312	(1025)	1463	(4800)	12

NOTE: Above hoist line lengths are based on single part lead line. Hoist and whip line lengths will allow hook to touch ground. When block travel below ground is required, add additional rope equal to parts of the line times the added travel distance. Hoisting distance or line pull may be limited when block travel below ground is required.

Hoist reeving for main load block single lead line - 28 mm boom No. 55 or No. 55A

No. parts of line	Maximum load	
	kg	(lb)
2	32 520	71,700
4	65 090	143,500
6	97 610	215,200
8	130 180	287,000
10	162 750	358,800
12	195 270	430,500
14	227 840	502,300
16	258 000	568,800
18	287 440	633,700
20	316 290	697,300
22	344 550	759,600
24	372 260	820,700
26	399 430	880,600
28	426 060	939,300
30	452,600	996,800

Performance data

Wire rope lengths - tandem drums - 32 mm hoist line boom No. 55 or No. 55A

Boom length	Whip line				Hoist line				Total parts of line
	Drum 3 (1 part of line)		Drum 3 (2 parts of line)		Drum 1		Drum 2		
	m	(ft)	m	(ft)	m	(ft)	m	(ft)	
36,6 (120)	91	(300)	130	(425)	579	(1900)	579	(1900)	28
42,7 (140)	99	(325)	145	(475)	579	(1900)	579	(1900)	24
48,8 (160)	114	(375)	168	(550)	671	(2200)	671	(2200)	24
54,9 (180)	122	(400)	183	(600)	671	(2200)	671	(2200)	20
61,0 (200)	137	(450)	206	(675)	701	(2300)	701	(2300)	20
67,1 (220)	152	(500)	221	(725)	701	(2300)	701	(2300)	16
73,2 (240)	160	(525)	236	(775)	701	(2300)	701	(2300)	16
79,2 (260)	175	(575)	259	(850)	732	(2400)	732	(2400)	16
85,3 (280)	183	(600)	274	(900)	792	(2600)	792	(2600)	16
91,4 (300)	198	(650)	297	(975)	792	(2600)	792	(2600)	12
97,5 (320)	213	(700)	312	(1025)	792	(2600)	792	(2600)	12

NOTE: Above hoist line lengths are based on tandem drums both reeved to the main load block. Each drum is dead-ended in main load block reeving. Total parts of line requires using both drums 1 and 2. Hoist and whip line lengths will allow hook to touch ground. When block travel below ground is required, add additional rope equal to parts of the line times the added travel distance. Hoisting distance or line pull may be limited when block travel below ground is required.

Hoist reeving for main load block two lead lines - 32 mm boom No. 55 or No. 55A

No. parts of line	Maximum load	
	kg	(lb)
8	177 080	390,400
12	265 620	585,600
16	354 160	780,800
20	442 710	976,000
24	531 250	1,171,200
28	600 000	1,322,800

Wire rope lengths - single hoist drum - 32 mm hoist line boom No. 55 or No. 55A

Boom length	Whip line - drum 2 or 3				Hoist line - drum 1		Maximum parts of line for full hoisting range
	1 Part		2 Part				
	m	(ft)	m	(ft)	m	(ft)	
36,6 (120)	91	(300)	130	(425)	1128	(3700)	28
42,7 (140)	99	(325)	145	(475)	1128	(3700)	24
48,8 (160)	114	(375)	168	(550)	1128	(3700)	20
54,9 (180)	122	(400)	183	(600)	1128	(3700)	18
61,0 (200)	137	(450)	206	(675)	1128	(3700)	16
67,1 (220)	152	(500)	221	(725)	1128	(3700)	14
73,2 (240)	160	(525)	236	(775)	1128	(3700)	14
79,2 (260)	175	(575)	259	(850)	1128	(3700)	12
85,3 (280)	183	(600)	274	(900)	1128	(3700)	12
91,4 (300)	198	(650)	297	(975)	1128	(3700)	10
97,5 (320)	213	(700)	312	(1025)	1128	(3700)	10

NOTE: Above hoist line lengths are based on single part lead line. Hoist and whip line lengths will allow hook to touch ground. When block travel below ground is required, add additional rope equal to parts of the line times the added travel distance. Hoisting distance or line pull may be limited when block travel below ground is required.

Hoist reeving for main load block single lead line - 32 mm boom No. 55 or No. 55A

No. parts of line	Maximum load	
	kg	(lb)
2	44 270	97,600
4	88 540	195,200
6	132 810	292,800
8	177 080	390,400
10	221 350	488,000
12	265 620	585,600
14	309 890	683,200
16	350 900	773,600
18	390 950	861,900
20	430 190	948,400
22	468 650	1,033,200
24	506 350	1,116,300
26	543 270	1,197,700
28	579 400	1,277,500

Performance data

Wire rope specifications 5:1 safety factor - 32 mm hoist line - boom No. 55 or No. 55A

Function	Rotation resistant, right hand lang lay wire rope with spelter button (except 719425) and pad eye		
	Hoist line (Drum 1)	Hoist or whip line (Drum 2)	Whip line (Drum 3)
MCC part number	A06005	A06005	719425
Size wire rope	32 mm	32 mm	28 mm
Minimum breaking strength	110 680 kg (244,000 lb)	110 680 kg (244,000 lb)	81 370 kg (179,400 lb)
Maximum load per line		22 140 kg (48,800 lb)	13 610 kg (30,000 lb)
Approximate weight	5.57 kg/m (3.74 lb/ft)	5.57 kg/m (3.74 lb/ft)	4.11 kg/m (2.76 lb/ft)

Maximum spooling capacities

Drum 1 (hoist line) 32 mm wire rope*	1 015 m (3,330 ft) 9 layers
Drum 2 (Hoist or Whip Line) (32 mm) Wire Rope*	1 015 m (3,330 ft) 9 layers
Drum 3 (Whip Line) 28 mm wire rope	579 m (1,900 ft) 8 layers

*7 m (23 ft) is deducted from maximum spooling capacities for 3 dead wraps per drum.

Refer to Drum and Lugging Chart No. 8512-A and Load Block Reeving Folio No. 2032

Wire rope lengths - single hoist drum - 28 mm hoist line boom No. 55-79A

Boom length	Whip line - drum 2 or 3		Hoist line - drum 1		Maximum parts of line for full hoisting range
	1 part	2 part			
m (ft)	m (ft)	m (ft)	m (ft)	m (ft)	
36,6 (120)	91 (300)	130 (425)	1189 (3900)		30
42,7 (140)	99 (325)	145 (475)	1372 (4500)		30
48,8 (160)	114 (375)	168 (550)	1463 (4800)		28
54,9 (180)	122 (400)	183 (600)	1463 (4800)		24
61,0 (200)	137 (450)	206 (675)	1463 (4800)		22
67,1 (220)	152 (500)	221 (725)	1463 (4800)		20
73,2 (240)	160 (525)	236 (775)	1463 (4800)		18
79,2 (260)	175 (575)	259 (850)	1463 (4800)		16
85,3 (280)	183 (600)	274 (900)	1463 (4800)		14
91,4 (300)	198 (650)	297 (975)	1463 (4800)		12
97,5 (320)	213 (700)	312 (1025)	1463 (4800)		12
103,6 (340)	221 (725)	328 (1075)	1463 (4800)		10
109,7 (360)	236 (775)	351 (1150)	1463 (4800)		10
115,8 (380)	244 (800)	366 (1200)	1463 (4800)		8
121,9 (400)	259 (850)	389 (1275)	1463 (4800)		8

NOTE: Hoist and whip line lengths will allow hook to touch ground. When block travel below ground is required, add additional rope equal to parts of the line times the added travel distance. Hoisting distance or line pull may be limited when block travel below ground is required.

Hoist reeving for main load block single lead line - 28 mm boom No. 55-79A

No. parts of line	Maximum load	
	kg	(lb)
2	32 520	71,700
4	65 090	143,500
6	97 610	215,200
8	130 180	287,000
10	162 750	358,800
12	195 270	430,500
14	227 840	502,300
16	258 000	568,800
18	287 440	633,700
20	316 290	697,300
22	344 550	759,600
24	372 260	820,700
26	399 430	880,600
28	426 060	939,300
30	453 500	1,000,000

Performance data

Wire rope specifications 5:1 safety factor - 28 mm boom No. 55 or No. 55A and boom No. 55-79A

Function	Rotation resistant, right hand lang lay wire rope with pad eye		
	Hoist line (Drum 1)	Hoist or whip line (Drum 2)	Whip line (Drum 3)
MCC part number	719425	719425	719425
Size wire rope	28 mm	28 mm	28 mm
Minimum breaking strength	81 370 kg (179,400 lb)	81 370 kg (179,400 lb)	81 370 kg (179,400 lb)
Maximum load per line		16 240 kg (35,800 lb)	13 610 kg (30,000 lb)
Approximate weight	4.11 kg/m (2.76 lb/ft)	4.11 kg/m (2.76 lb/ft)	4.11 kg/m (2.76 lb/ft)

Maximum spooling capacities

Drum 1 (hoist line) 28 mm wire rope*	1 440 m (4,723 ft) 11 layers
Drum 2 (hoist or whip line) (28 mm) wire rope*	1 440 m (4,723 ft) 11 layers
Drum 3 (whip line) 28 mm wire rope	579 m (1,900 ft) 8 layers

*7 m (23 ft) is deducted from maximum spooling capacities for 3 dead wraps per drum.

Refer to Drum and Lagging Chart No. 8512-A and Load Block Reeving Folio No. 2003 for Boom No. 55 or 55A.

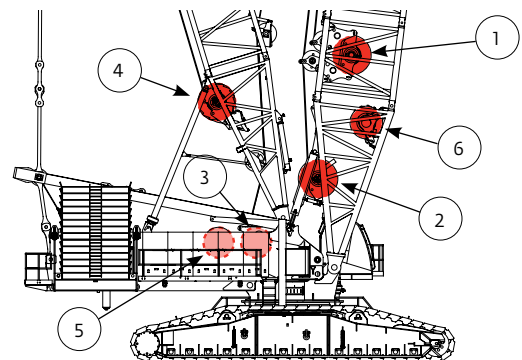
Refer to Drum and Lagging Chart No. 8512-A and Load Block Reeving Folio No. 2032 for Boom No. 55-79A.

Drum and lagging chart - liftcrane

Application	Drum number and location	Drum part number	Drum type	Drum diameter	Drum width	Grooved lagging part number	Lagging diameter	Minimum wire rope size
Hoist	Drum 1 (boom insert)	A05163	Bare	645 mm (25-3/8")	1248 mm (49-1/8")	A05084	714 mm (28-1/8")	28 mm
						A05085	714 mm (28-1/8")	32 mm
Hoist or whip	Drum 2 (boom butt)	A05163	Bare	645 mm (25-3/8")	1248 mm (49-1/8")	A05084	714 mm (28-1/8")	28 mm
						A05085	714 mm (28-1/8")	32 mm
Whip	Drum 3 (rotating bed)	A05302	Grooved	641 mm (25-1/4")	822 mm (32-3/8")			28 mm

Drum identification

Drum number	Function
1	Main load drum – standard
2	Main/auxiliary load drum – standard
3	Whip hoist – standard
4	Boom hoist – standard
5	Mast hoist – standard
6	Luffing jib drum – optional
7	Rigging winch – optional (not shown, located in butt)



Performance data

Wire rope lengths - single hoist drum - 32 mm hoist line boom No. 55-79A

Boom length	Whip line - drum 2 or 3				Hoist line - drum 1		Maximum parts of line for full hoisting range
	1 part		2 part				
m (ft)	m	(ft)	m	(ft)	m	(ft)	
36,6 (120)	91	(300)	130	(425)	884	(2900)	22
42,7 (140)	99	(325)	145	(475)	1036	(3400)	22
48,8 (160)	114	(375)	168	(550)	1067	(3500)	20
54,9 (180)	122	(400)	183	(600)	1097	(3600)	18
61,0 (200)	137	(450)	206	(675)	1097	(3600)	16
67,1 (220)	152	(500)	221	(725)	1097	(3600)	14
73,2 (240)	160	(525)	236	(775)	1128	(3700)	14
79,2 (260)	175	(575)	259	(850)	1128	(3700)	12
85,3 (280)	183	(600)	274	(900)	1128	(3700)	10
91,4 (300)	198	(650)	297	(975)	1128	(3700)	10
97,5 (320)	213	(700)	312	(1025)	1128	(3700)	10
103,6 (340)	221	(725)	328	(1075)	1128	(3700)	8
109,7 (360)	236	(775)	351	(1150)	1128	(3700)	6
115,8 (380)	244	(800)	366	(1200)	1128	(3700)	6
121,9 (400)	259	(850)	389	(1275)	1128	(3700)	6

NOTE: Hoist and whip line lengths will allow hook to touch ground. When block travel below ground is required, add additional rope equal to parts of the line times the added travel distance. Hoisting distance or line pull may be limited when block travel below ground is required.

Hoist reeving for main load block single lead line - 32 mm boom No. 55-79A

No. parts of line	Maximum load	
	kg	(lb)
2	44 270	97,600
4	88 540	195,200
6	132 810	292,800
8	177 080	390,400
10	221 350	488,000
12	265 620	585,600
14	309 890	683,200
16	350 900	773,600
18	390 950	861,900
20	430 190	948,400
22	453 500	1,000,000

Wire rope lengths - single hoist drum - 28 mm hoist line boom No. 55-79A with 7.6 m (25 ft) extended upper boom point

Boom length	Whip line - drum 2 or 3				Hoist line - drum 1		Total parts of line
	1 part		2 part				
m (ft)	m	(ft)	m	(ft)	m	(ft)	
61,0 (200)	152	(500)	229	(750)	640	(2100)	8
67,1 (220)	168	(550)	244	(800)	701	(2300)	8
73,2 (240)	175	(575)	259	(850)	762	(2500)	8
79,2 (260)	191	(625)	282	(925)	823	(2700)	8
85,3 (280)	206	(675)	297	(975)	884	(2900)	8
91,4 (300)	213	(700)	312	(1025)	914	(3000)	8
97,5 (320)	229	(750)	335	(1100)	975	(3200)	8
103,6 (340)	236	(775)	351	(1150)	1036	(3400)	8
109,7 (360)	251	(825)	373	(1225)	1097	(3600)	8
115,8 (380)	267	(875)	389	(1275)	1097	(3600)	6
121,9 (400)	274	(900)	404	(1325)	1097	(3600)	6

NOTE: Hoist and whip line lengths will allow hook to touch ground. When block travel below ground is required, add additional rope equal to parts of the line times the added travel distance. Hoisting distance or line pull may be limited when block travel below ground is required.

Hoist reeving for main load block single lead line - 28 mm boom No. 55-79A with 7.6 m (25 ft) extended upper boom point

No. parts of line	Maximum load	
	kg	(lb)
2	32 520	71,700
4	65 090	143,500
6	97 610	215,200
8	130 180	287,000

Performance data

Wire rope lengths - single hoist drum - 32 mm hoist line boom No. 55-79A with 7.6 m (25 ft) extended upper boom point

Boom length	Whip line - drum 2 or 3				Hoist line		Total parts of line
	1 part		2 part				
m (ft)	m	(ft)	m	(ft)	m	(ft)	
61,0 (200)	152	(500)	229	(750)	518	(1700)	6
67,1 (220)	168	(550)	244	(800)	549	(1800)	6
73,2 (240)	175	(575)	259	(850)	610	(2000)	6
79,2 (260)	191	(625)	282	(925)	640	(2100)	6
85,3 (280)	206	(675)	297	(975)	671	(2200)	6
91,4 (300)	213	(700)	312	(1025)	732	(2400)	6
97,5 (320)	229	(750)	335	(1100)	762	(2500)	6
103,6 (340)	236	(775)	351	(1150)	823	(2700)	6
109,7 (360)	251	(825)	373	(1225)	853	(2800)	6
115,8 (380)	267	(875)	389	(1275)	853	(2800)	4
121,9 (400)	274	(900)	404	(1325)	853	(2800)	4

NOTE: Hoist and whip line lengths will allow hook to touch ground. When block travel below ground is required, add additional rope equal to parts of the line times the added travel distance. Hoisting distance or line pull may be limited when block travel below ground is required.

Hoist reeving for main load block single lead line - 32 mm boom No. 55-79A with 7.6 m (25 ft) extended upper boom point

No. parts of line	Maximum load	
	kg	(lb)
2	44 270	97,600
4	88 540	195,200
6	132 810	292,800

Working weight

	kg(lb)
30,5 m (100') No. 56 mast with 36,6 m (120') No. 55 or No. 55A main boom, upper boom point, 661 t (600 USt) hook block.	686 611 (1,513,720)
30,5 m (100') No. 56 mast with 36,6 m (120') No. 55/79A main boom upper boom point, 454 t (500 USt) hook block.	670 831 (1,478,930)

Typical working weight includes hydraulic reservoir full, fuel half-full, drums with standard lengths of wire rope, upper boom point and 27 t (30 US) hook and weight ball.

Wire rope specifications 5:1 safety factor - 32 mm hoist line - boom No. 55-79A

Function	Rotation resistant, right hand lang lay wire rope with spelter button (except 719425) and pad eye		
	Hoist Line (Drum 1)	Hoist or Whip Line (Drum 2)	Whip Line (Drum 3)
MCC part number	A06005	A06005	719425
Size wire rope	32 mm	32 mm	28 mm
Minimum breaking strength	110 680 kg (244,000 lb)	110 680 kg (244,000 lb)	81 370 kg (179,400 lb)
Maximum load per line		22 140 kg (48,800 lb)	13 610 kg (30,000 lb)
Approximate weight	5.57 kg/m (3.74 lb/ft)	5.57 kg/m (3.74 lb/ft)	4.11 kg/m (2.76 lb/ft)

Hoist reeving for jib load block single lead line - 28 mm boom No. 55-79A and No. 55* or No. 55A*

No. parts of line	Maximum load	
	kg	(lb)
2	32 520	71,700
4	65 090	143,500
6	97 610	215,200
8	130 180	287,000
10	162 750	358,800
12	193 410	426,400
14	223 440	492,600
16	253 900	559,200
18*	284 580*	627,400*
20*	295 000*	650,400*

* Only for Boom No. 55 or No. 55A with fixed jib 79A

Maximum spooling capacities

Drum 1 (hoist line) 32 mm wire rope*	1 015 m (3,330 ft) 9 layers
Drum 2 (whip line) 32 mm wire rope*	1 015 m (3,330 ft) 9 layers
Drum 3 (whip line) 28 mm wire rope	579 m (1,900 ft) 8 layers

*7 m (23 ft) is deducted from maximum spooling capacities for 3 dead wraps per drum. Refer to Drum and Lagging Chart No. 8512-A and Load Block Reeving Folio No. 2032

Performance data

Wire rope lengths - 28 mm hoist line liftcrane - luffing jib No. 44 on boom No. 55-79A hoist line drum wire 1280 m (4,200 ft)

Luffing jib m (ft)	Boom length m (ft)							
	42,7 (140)	48,8 (160)	54,9 (180)	61,0 (200)	67,1 (220)	73,2 (240)	79,2 (260)	85,4 (280)
21,3 (70)	16	16	14	14	12	12	10	8
24,4 (80)	16	16	14	12	12	10	10	8
27,4 (90)	14	14	12	12	12	10	8	8
30,5 (100)	14	14	12	10	10	10	8	8
33,5 (110)	12	12	10	10	10	8	8	6
36,6 (120)	10	10	10	10	10	8	6	6
39,6 (130)	10	10	10	8	8	8	6	6
42,7 (140)	10	10	10	8	8	8	6	6
45,7 (150)	8	8	8	8	8	6	6	6
48,8 (160)	8	8	8	8	6	6	6	6
51,8 (170)	8	8	8	6	6	6	8	4
54,9 (180)	8	8	6	6	6	6	4	4
57,9 (190)	6	6	6	6	6	6	4	4
61,0 (200)	6	6	6	6	6	4	4	4
64,0 (210)	6	6	6	6	4	4	4	4
67,1 (220)	6	6	6	4	4	4	4	4
70,1 (230)	4	4	4	4	4	4	4	4
73,2 (240)	4	4	4	4	4	4	4	4

NOTE: Whip line lengths given in table will allow hook to touch ground. When block travel below ground is required, add additional rope equal to parts of the line times the added travel distance. Hoisting distance or line pull may be limited when block travel below ground is required.

Wire rope lengths - 28 mm hoist line liftcrane - luffing jib No. 44 on boom No. 55-79A

Boom length luffing jib length m (ft)	Whip line - drum 2 or 3			
	1 part		2 part	
	m	(ft)	m	(ft)
64,0 (210)	146	(480)	221	(725)
67,1 (220)	152	(500)	229	(750)
70,1 (230)	158	(520)	236	(775)
73,2 (240)	165	(540)	251	(825)
76,2 (250)	171	(560)	259	(850)
79,2 (260)	177	(580)	267	(875)
73,2 (270)	183	(600)	274	(900)
79,2 (280)	189	(620)	282	(925)
85,3 (290)	195	(640)	290	(950)
91,4 (300)	201	(660)	305	(1000)
94,5 (310)	207	(680)	312	(1025)
97,5 (320)	213	(700)	320	(1050)
100,6 (330)	219	(720)	328	(1075)
103,6 (340)	226	(740)	335	(1100)
106,7 (350)	232	(760)	343	(1125)
109,7 (360)	238	(780)	358	(1175)
112,8 (370)	244	(800)	366	(1200)
115,8 (380)	250	(820)	373	(1225)
118,9 (390)	256	(840)	381	(1250)
121,9 (400)	262	(860)	389	(1275)
125,0 (410)	268	(880)	404	(1325)
128,0 (420)	274	(900)	411	(1350)
131,1 (430)	280	(920)	419	(1375)
134,1 (440)	287	(940)	427	(1400)
137,2 (450)	293	(960)	434	(1425)
140,2 (460)	299	(980)	442	(1450)
143,3 (470)	305	(1000)	457	(1500)
146,3 (480)	311	(1020)	465	(1525)
149,4 (490)	317	(1040)	472	(1550)
152,4 (500)	323	(1060)	480	(1575)
155,5 (510)	329	(1080)	488	(1600)
158,5 (520)	335	(1100)	495	(1625)

NOTE: Whip line lengths given in table will allow hook to touch ground. When hook travel below ground is required, add additional rope equal to parts of the line times the added travel distance. Hoisting distance or line pull may be limited when block travel below ground is required.

Performance data

Wire rope lengths - single hoist drum 28 mm hoist line liftcrane - fixed jib No. 79A on boom No. 55 or No. 55A

Boom length m (ft)	Hoist line - drum 1 maximum parts of line				Hoist line drum 1 m (ft)	Whip line drum 2 or 3	
	Jib length m (ft)					1 part	2 part
	m (ft)	m (ft)	m (ft)	m (ft)		m (ft)	m (ft)
42,7 (140)	20	18	16	14	1250 (4100)	175 (575)	251 (825)
48,8 (160)	18	16	14	12	1250 (4100)	183 (600)	274 (900)
54,9 (180)	18	14	12	12	1341 (4400)	198 (650)	290 (950)
61,0 (200)	16	14	12		1341 (4400)	198 (650)	290 (950)
67,1 (220)	16				1402 (4600)	198 (650)	290 (950)

NOTE: Hoist and whip line lengths will allow hook to touch ground. When block travel below ground is required, add additional rope equal to parts of the line times the added travel distance. Hoisting distance or line pull may be limited when block travel below ground is required.

Wire rope lengths - single hoist drum - 28 mm hoist line liftcrane - fixed jib No. 79A on boom No. 55 or No. 55A

Boom length m (ft)	Hoist line - drum 1 Maximum parts of line												Hoist line drum 1 m (ft)
	Jib length m (ft)												
	27,4 (90)	33,5 (110)	39,6 (130)	45,7 (150)	51,8 (170)	57,9 (190)	64,0 (210)	70,1 (230)	76,2 (250)	82,3 (270)	88,4 (290)	94,5 (310)	
48,8 (160)	16	14	12	12	10	10	10	8	8	6	6	6	1311 (4300)
54,9 (180)	14	14	12	12	10	10	8	8	8	6	6	4	1341 (4400)
61,0 (200)	14	14	12	12	10	10							1433 (4700)

NOTE: Above hoist line lengths are based on single part lead line.

Performance for main hoist (drum #1) and also auxiliary hoist (drum #2) 28 mm wire rope - 11 layers maximum working - lagging groove root diameter 28.125 inches Single line speed in m (ft) per minute

Layer	1	2	3	4	5	6	7	8	9	10	11
Single line pull radius	371 mm (14.6")	399 mm (15.7")	427 mm (16.8")	455 mm (17.9")	483 mm (19.0")	511 mm (20.1")	538 mm (21.2")	566 mm (22.3")	594 mm (23.4")	625 mm (24.6")	650 mm (25.6")
Single line pull kg (lb)											
0 (0)	94 (309)	101 (333)	109 (356)	116 (379)	123 (402)	130 (426)	137 (449)	144 (472)	151 (496)	158 (519)	165 (542)
4 536 (10,000)	90 (295)	96 (316)	103 (337)	109 (358)	115 (378)	122 (399)	128 (419)	134 (439)	140 (459)	146 (479)	152 (498)
9 072 (20,000)	85 (280)	91 (299)	97 (318)	103 (338)	108 (354)	113 (371)	119 (389)	123 (405)	129 (422)	133 (436)	134 (441)
13 607 (30,000)	81 (266)	86 (283)	89 (293)	91 (297)	92 (302)	93 (306)	95 (311)	96 (315)	98 (320)	99 (324)	100 (329)
16 239 (35,800)	75 (247)	77 (252)	78 (256)	80 (261)	81 (265)	82 (270)	84 (274)	85 (279)	86 (283)	88 (288)	89 (292)

Performance data

Performance for main hoist (drum #1) and also auxiliary hoist (drum #2)
32 mm wire rope - 9 layers maximum working - lagging groove
Root diameter 28.125 inches single line speed in m (ft) per minute

Layer	1	2	3	4	5	6	7	8	9
Single line pull radius	371 mm (14.6")	406 mm (16.0")	437 mm (17.2")	470 mm (18.5")	500 mm (19.7")	533 mm (21.0")	566 mm (22.3")	570 mm (23.5")	630 mm (24.8")
Single line pull kg (lb)									
0 (0)	95 (311)	103 (338)	111 (364)	119 (391)	127 (417)	135 (444)	144 (471)	151 (497)	160 (524)
4 536 (10,000)	90 (296)	98 (320)	105 (344)	112 (368)	119 (391)	126 (415)	134 (438)	140 (460)	147 (483)
9 072 (20,000)	86 (282)	92 (303)	99 (324)	105 (345)	111 (365)	117 (385)	123 (404)	129 (423)	133 (437)
13 607 (30,000)	81 (267)	87 (286)	90 (294)	91 (299)	93 (305)	94 (310)	96 (315)	98 (320)	99 (325)
18 144 (40,000)	69 (228)	71 (233)	73 (238)	74 (243)	76 (248)	77 (254)	79 (259)	80 (264)	78 (256)
22 135 (48,800)	61 (199)	62 (203)	63 (208)	65 (213)	67 (218)	68 (223)	69 (228)	71 (234)	73 (239)

Performance for whip (drum #3) - 28 mm wire rope
8 layers maximum working - drum barrel groove root diameter 25.25 inches
Single line speed in m (ft) per minute

Layer	1	2	3	4	5	6	7	8
Single line pull radius	335 mm (13.2")	363 mm (14.3")	391 mm (15.4")	419 mm (16.5")	447 mm (17.6")	460 mm (18.1")	503 mm (19.8")	531 mm (20.9")
Single line pull kg (lb)								
0 (0)	85 (279)	92 (302)	99 (325)	104 (340)	113 (372)	120 (395)	128 (419)	135 (442)
2 268 (5,000)	81 (267)	88 (288)	94 (310)	101 (330)	107 (351)	113 (372)	119 (392)	126 (413)
4 536 (10,000)	78 (255)	84 (275)	90 (294)	95 (312)	101 (331)	106 (348)	112 (366)	117 (383)
6 804 (15,000)	74 (244)	80 (261)	85 (278)	89 (291)	90 (296)	91 (300)	93 (305)	94 (309)
9 072 (20,000)	68 (222)	69 (226)	70 (231)	72 (235)	73 (240)	74 (244)	76 (249)	77 (253)
11 340 (25,000)	57 (188)	59 (193)	60 (197)	62 (202)	63 (206)	64 (211)	66 (215)	69 (228)
13 607 (30,000)	51 (168)	52 (170)	53 (175)	55 (179)	56 (184)	57 (188)	59 (193)	60 (197)

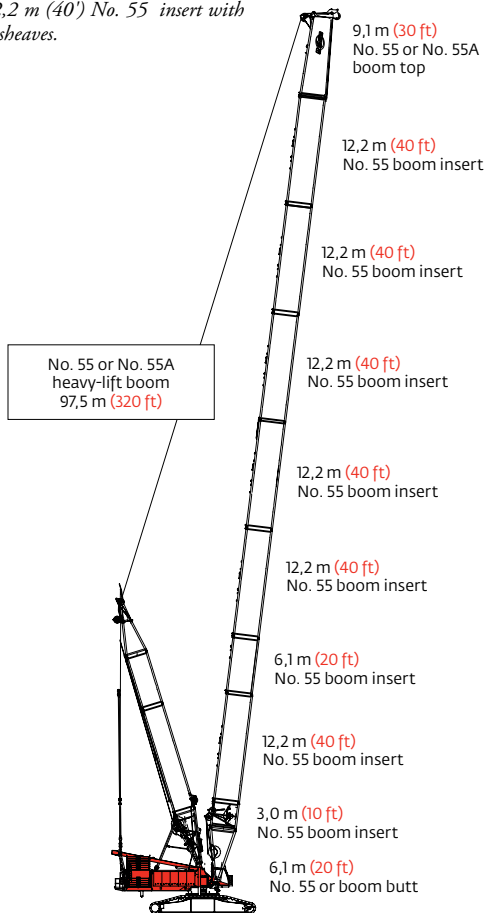
Boom combinations

No. 55 or No. 55A boom combinations

Boom length m (ft)	Boom inserts		
	3,0 m (10 ft)	6,1 m (20 ft)	12,2 m (40 ft)
36,6 (120)	1	1	1
42,7 (140)	1	-	2
48,8 (160)	1	1	2
54,9 (180)	1	2	2
61,0 (200)	1	1	3
67,1 (220)	1	2	3
73,2 (240)	1	1	4
79,2 (260)	1	2	4
85,3 (280)	1	1	5
91,4 (300)	1	2	5
97,5 (320)	1	1	6

NOTE: 36,6 m (120') basic boom consists of 6,1 m (20') butt, 3,0 m (10') insert with drum, 6,1 m (20') insert, 12,2 m (40'), and 9,1 m (30') top.

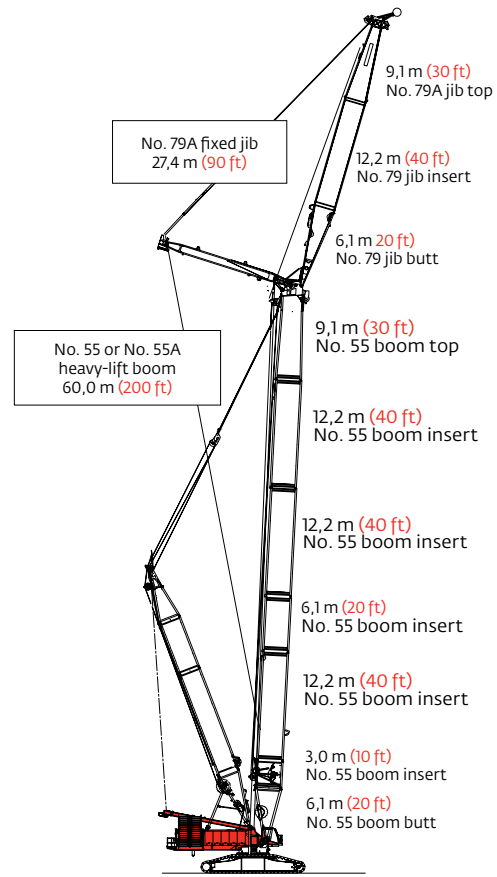
May use 12,2 m (40') No. 55 insert with or without sheaves.



Model 18000
No. 55 or No. 55A
heavy-lift main boom
97,5 m (320 ft)

No. 79A fixed jib combinations

Fixed jib Length m (ft)	Fixed jib inserts	
	6,1 m (20 ft)	12,2 m (40 ft)
27,4 (90)	-	-
33,5 (110)	1	-
39,6 (130)	-	1
45,7 (150)	1	1



Model 18000
No. 79A fixed jib on
No. 55 or No. 55A heavy-lift main boom
88,0 m (290 ft)

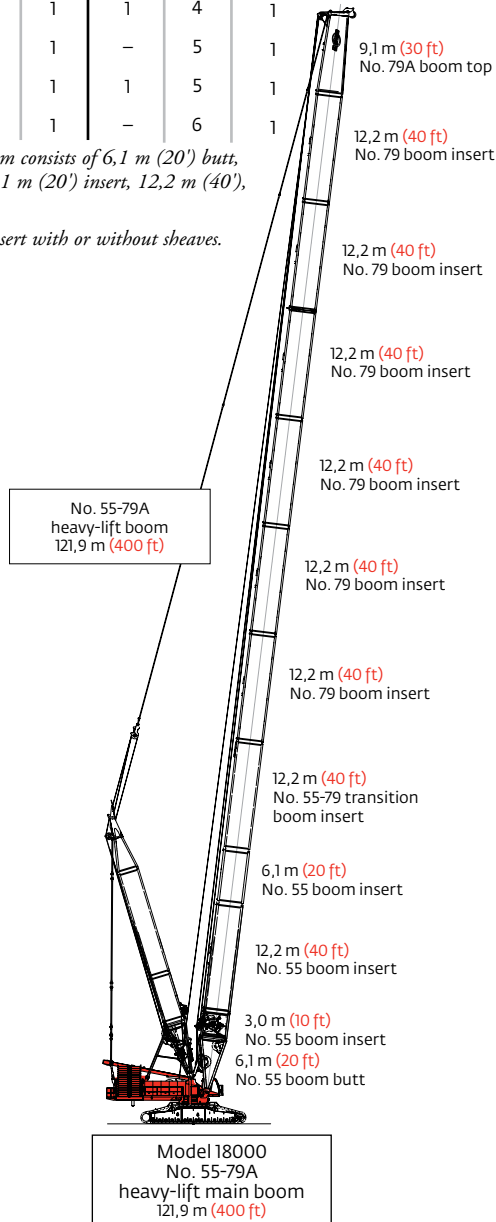
Boom combinations

No. 55-79A boom combinations

Boom length m (ft)	Boom inserts						
	55*			79			No. 55-79A transition
	3,0 m (10 ft)	6,1 m (20 ft)	12,2 m (40 ft)	6,1 m (20 ft)	12,2 m (40 ft)	12,2 m (40 ft)	
36,6 (120)	1	1	-	-	-	1	
42,7 (140)	1	-	1	-	-	1	
48,8 (160)	1	1	1	-	-	1	
54,9 (180)	1	1	1	1	-	1	
61,0 (200)	1	1	1	-	1	1	
67,1 (220)	1	1	1	1	1	1	
73,2 (240)	1	1	1	-	2	1	
79,2 (260)	1	1	1	1	2	1	
85,3 (280)	1	1	1	-	3	1	
91,4 (300)	1	1	1	1	3	1	
97,5 (320)	1	1	1	-	4	1	
103,6 (340)	1	1	1	1	4	1	
109,7 (360)	1	1	1	-	5	1	
115,8 (380)	1	1	1	1	5	1	
121,9 (400)	1	1	1	-	6	1	

NOTE: 36,6 m (120') basic boom consists of 6,1 m (20') butt, 3,0 m (10') insert with drum, 6,1 m (20') insert, 12,2 m (40'), and 9,1 m (30') top.

May use 12,2 m (40') No. 55 insert with or without sheaves.

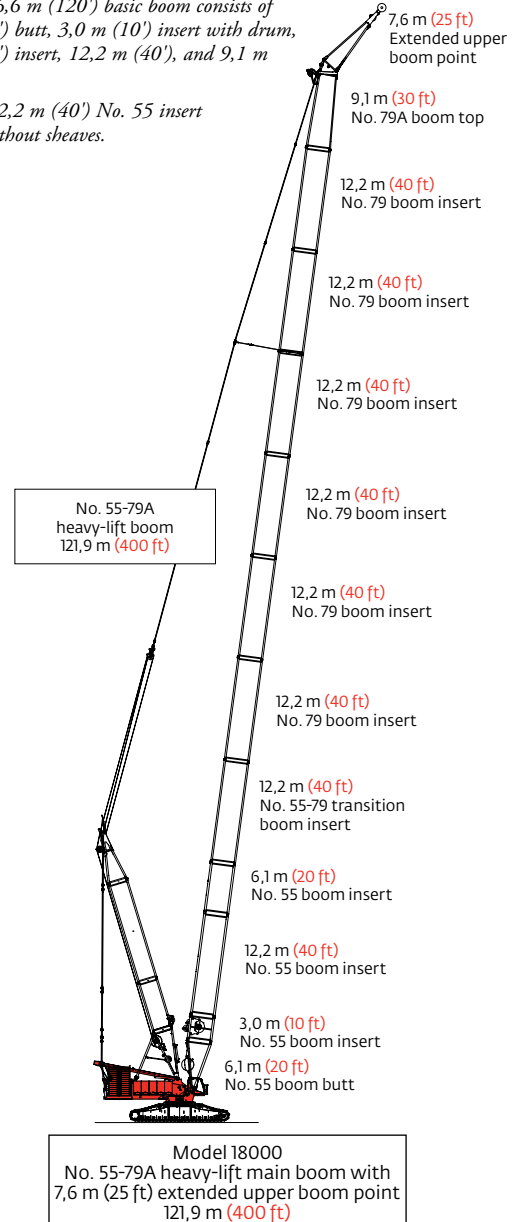


No. 55-79A boom combinations

Boom length m (ft)	Boom inserts						
	55*			79			No. 55-79A transition
	3,0 m (10 ft)	6,1 m (20 ft)	12,2 m (40 ft)	6,1 m (20 ft)	12,2 m (40 ft)	12,2 m (40 ft)	
61,0 (200)	1	1	1	-	1	1	
67,1 (220)	1	1	1	1	1	1	
73,2 (240)	1	1	1	-	2	1	
79,2 (260)	1	1	1	1	2	1	
85,3 (280)	1	1	1	-	3	1	
91,4 (300)	1	1	1	1	3	1	
97,5 (320)	1	1	1	-	4	1	
103,6 (340)	1	1	1	1	4	1	
109,7 (360)	1	1	1	-	5	1	
115,8 (380)	1	1	1	1	5	1	
121,9 (400)	1	1	1	-	6	1	

NOTE: 36,6 m (120') basic boom consists of 6,1 m (20') butt, 3,0 m (10') insert with drum, 6,1 m (20') insert, 12,2 m (40'), and 9,1 m (30') top.

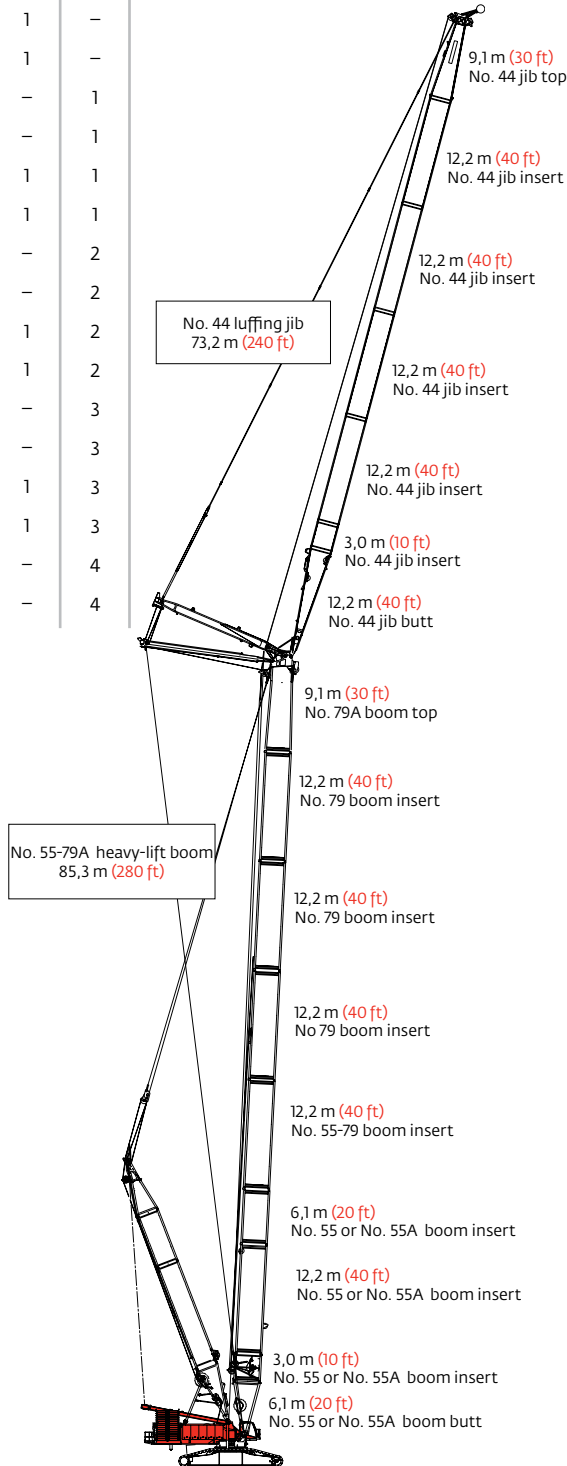
May use 12,2 m (40') No. 55 insert with or without sheaves.



Boom combinations

No. 44 luffing jib combinations

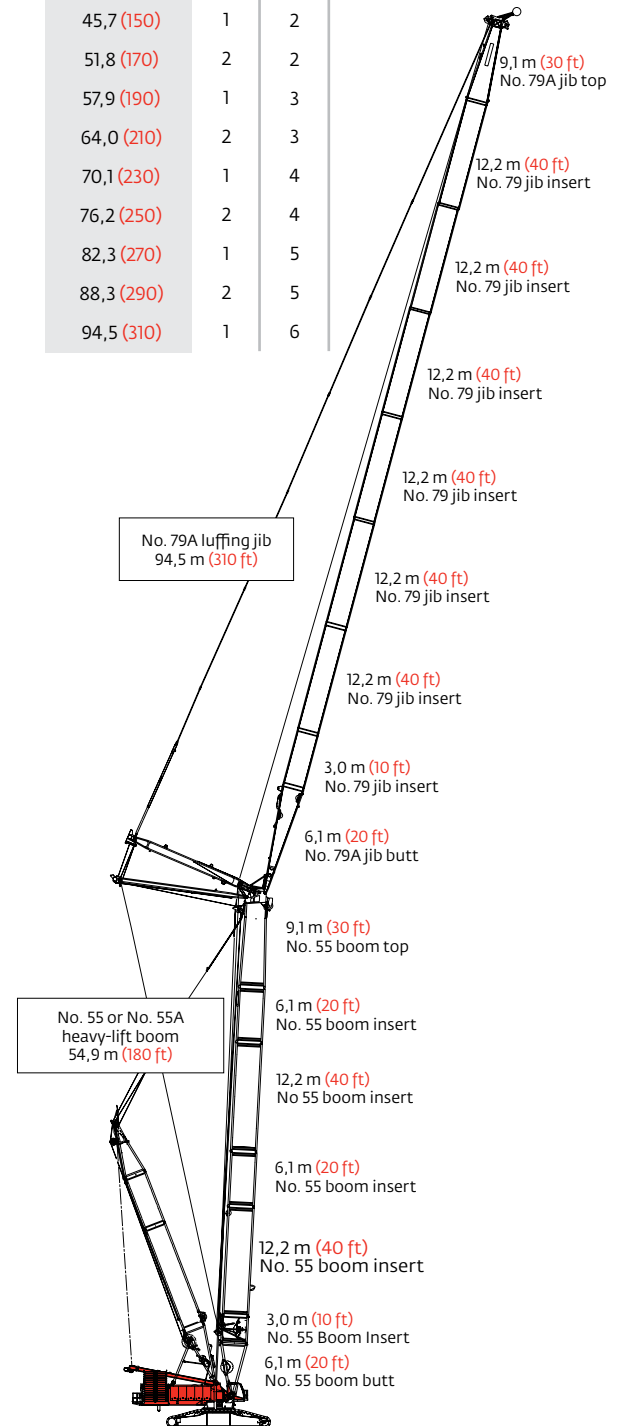
Luffing jib length m (ft)	Luffing jib inserts		
	3,0 m (10 ft)	6,1 m (20 ft)	12,2 m (40 ft)
21,3 (70)	-	-	-
24,4 (80)	1	-	-
27,4 (90)	-	1	-
30,5 (100)	1	1	-
33,5 (110)	-	-	1
36,6 (120)	1	-	1
39,6 (130)	-	1	1
42,7 (140)	1	1	1
45,7 (150)	-	-	2
48,8 (160)	1	-	2
51,8 (170)	-	1	2
54,9 (180)	1	1	2
57,9 (190)	-	-	3
61,0 (200)	1	-	3
64,0 (210)	-	1	3
67,1 (220)	1	1	3
70,1 (230)	-	-	4
73,2 (240)	1	-	4



Model 18000
No. 44 luffing jib on
No. 55-79A heavy-lift main boom
158,5 m (520 ft)

No. 79A luffing jib combinations

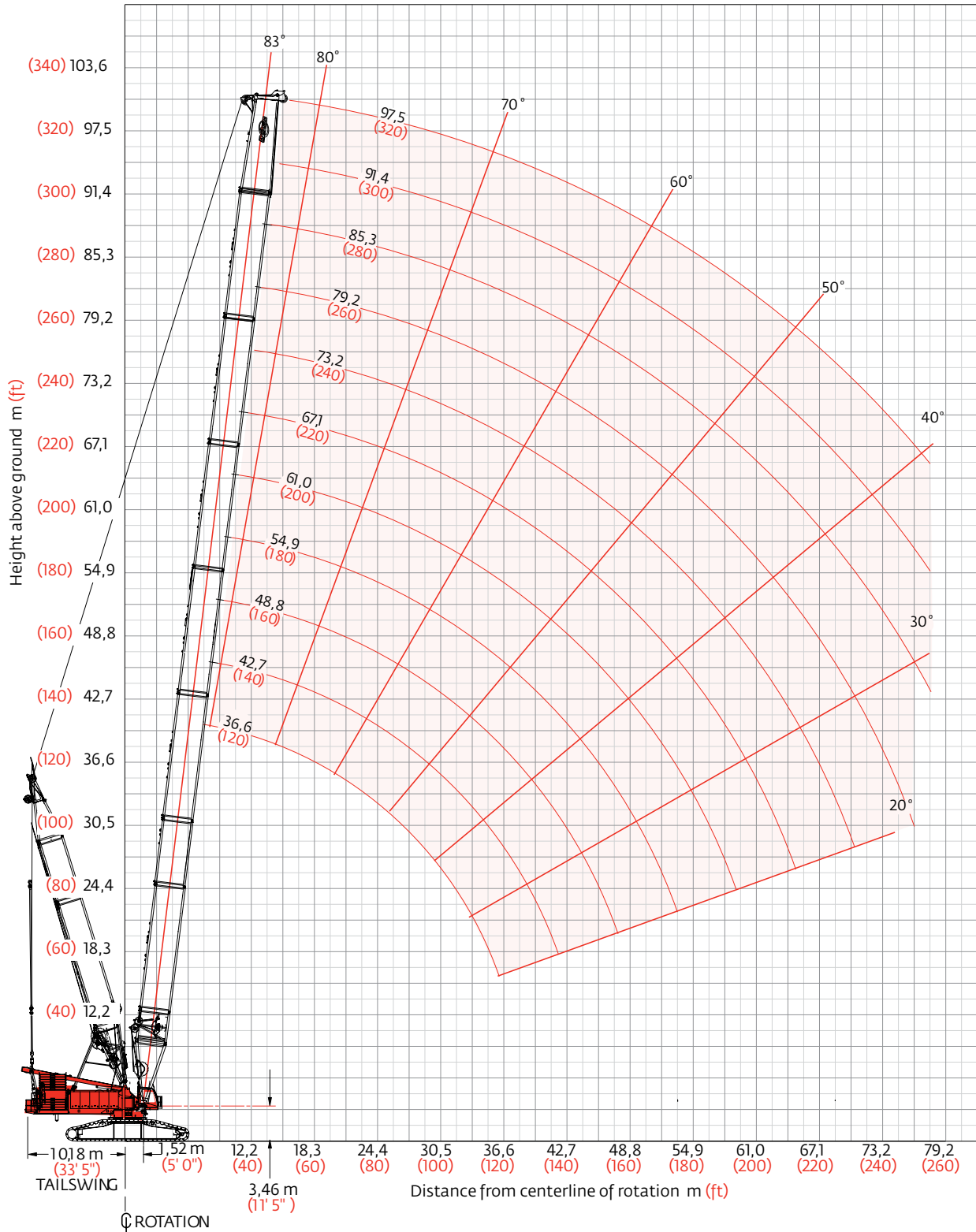
Luffing jib length m (ft)	Luffing jib inserts	
	6,1 m (20 ft)	12,2 m (40 ft)
27,4 (90)	2	-
33,5 (110)	1	1
39,6 (130)	2	1
45,7 (150)	1	2
51,8 (170)	2	2
57,9 (190)	1	3
64,0 (210)	2	3
70,1 (230)	1	4
76,2 (250)	2	4
82,3 (270)	1	5
88,3 (290)	2	5
94,5 (310)	1	6



Model 18000
No. 79A luffing jib on No. 55
or No. 55A heavy-lift main boom
149,3 m (490 ft)

Heavy-lift boom range diagram

No. 55 or No. 55A main boom



Heavy-lift boom load charts

Liftcrane boom capacities Boom No. 55 or No. 55A with 30,5 m (100 ft) mast No. 56

239 500 kg (528,000 lb) Counterweight 145 150 kg (320,000 lb) Carbody counterweight

360° Rating

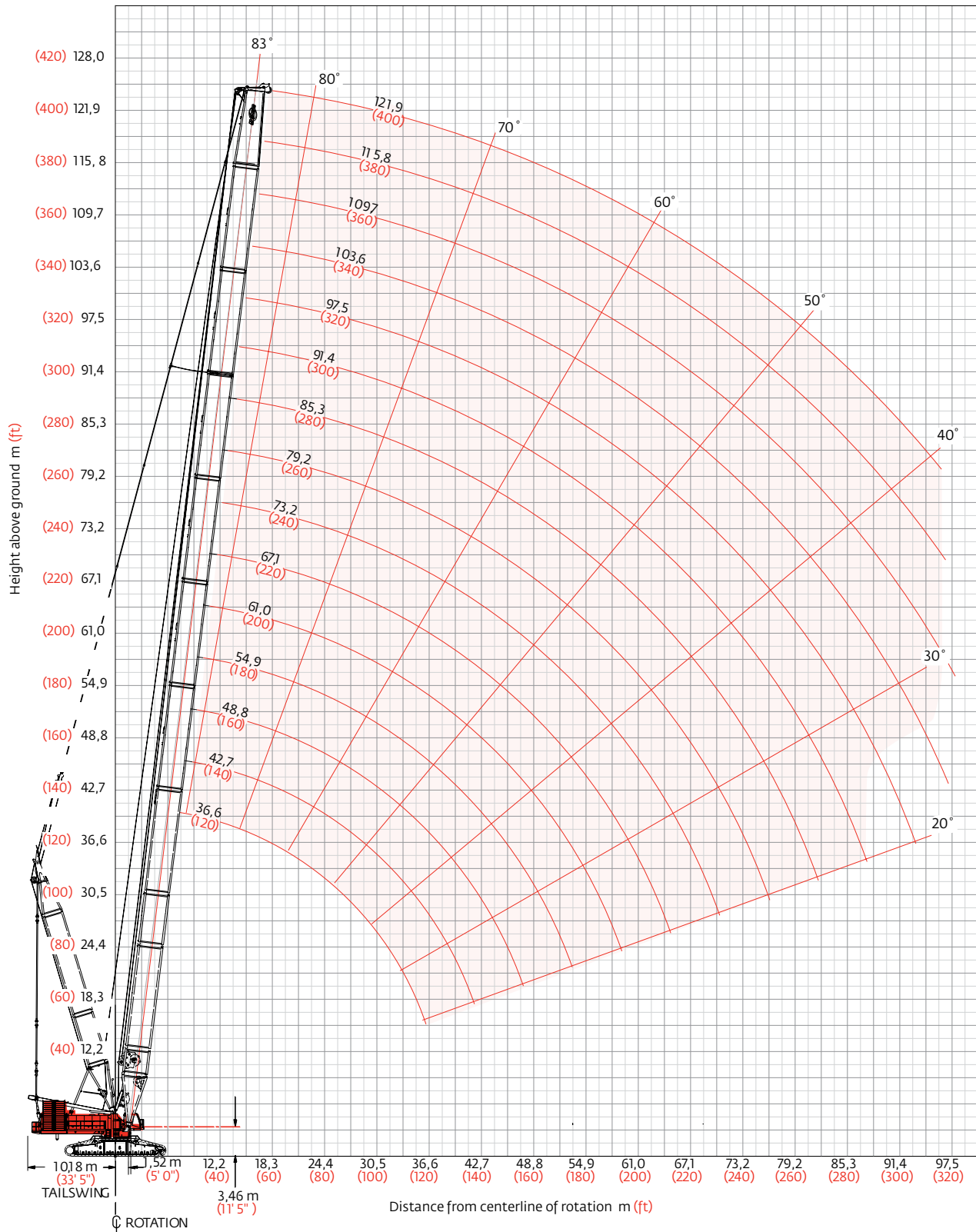
kg (lb) x 1 000

Boom m (ft)	36,6 (120)	42,7 (140)	48,8 (160)	54,9 (180)	61,0 (200)	67,1 (220)	73,2 (240)	79,2 (260)	85,4 (280)	91,4 (300)	97,5 (320)
Radius											
7,3 (24)	600,0 (1322.8)										
8,0 (26)	512,8 (1145.7)										
9,0 (30)	458,8 (995.9)	457,5 (992.2)	– (987.9)								
11,0 (36)	375,5 (830.1)	373,9 (826.6)	372,1 (822.5)	370,5 (818.9)	370,4 (816.7)						
12,0 (40)	343,8 (745.8)	342,3 (742.5)	340,4 (738.4)	338,8 (734.8)	337,7 (732.6)	336,1 (728.6)	– (725.9)				
14,0 (45)	291,5 (657.7)	290,3 (654.9)	288,7 (651.5)	287,3 (648.4)	286,5 (646.6)	285,0 (643.1)	283,9 (640.8)	282,5 (636.7)	281,1 (633.7)		
16,0 (50)	250,0 (583.2)	248,8 (580.4)	247,2 (577.0)	245,8 (573.8)	244,9 (572.0)	243,3 (568.5)	242,3 (566.2)	240,6 (562.4)	239,4 (559.8)	238,4 (556.0)	236,3 (546.6)
18,0 (60)	218,3 (472.6)	217,0 (469.9)	215,5 (466.5)	214,0 (463.3)	244,9 (461.5)	211,6 (457.9)	210,5 (455.5)	208,8 (451.7)	207,6 (449.0)	205,8 (445.1)	206,1 (445.1)
22,0 (70)	172,4 (394.4)	171,3 (391.9)	169,8 (388.5)	168,3 (385.3)	167,5 (383.4)	165,8 (379.8)	164,7 (377.4)	163,0 (373.5)	161,7 (368.7)	159,9 (366.8)	160,0 (366.9)
24,0 (80)	155,4 (336.3)	154,3 (333.8)	152,8 (330.5)	151,3 (327.2)	150,4 (325.9)	148,8 (321.7)	147,7 (319.2)	145,9 (315.4)	144,7 (312.6)	142,9 (308.6)	142,9 (308.7)
28,0 (90)	126,0 (286.3)	125,3 (284.7)	124,2 (282.4)	123,2 (279.9)	122,7 (278.9)	121,5 (276.1)	120,7 (274.3)	119,1 (270.4)	117,9 (267.6)	116,2 (263.7)	116,2 (263.7)
30,0 (100)	114,0 (245.7)	113,3 (244.2)	112,2 (241.8)	111,1 (239.2)	110,6 (238.1)	109,3 (235.2)	108,4 (233.4)	107,1 (223.3)	106,1 (228.1)	104,7 (224.8)	104,9 (225.3)
34,0 (110)	94,8 (213.5)	94,1 (212.0)	93,1 (209.7)	91,8 (207.0)	91,3 (205.8)	89,9 (202.8)	89,1 (200.9)	87,6 (197.7)	86,6 (195.5)	85,1 (192.1)	85,3 (192.6)
36,0 (120)	86,9 (187.1)	86,3 (185.9)	85,3 (183.6)	84,1 (180.9)	83,5 (179.6)	82,1 (176.5)	81,2 (174.6)	79,7 (171.3)	78,7 (169.0)	77,2 (165.6)	77,4 (166.1)
40,0 (130)		73,3 (164.2)	72,3 (161.9)	71,1 (159.2)	70,5 (157.9)	69,1 (154.8)	68,2 (152.8)	66,7 (149.5)	65,6 (147.1)	64,0 (143.7)	64,2 (144.1)
42,0 (140)		67,8 (145.7)	66,8 (143.6)	65,6 (140.9)	65,0 (139.6)	63,5 (132.2)	62,7 (134.5)	61,1 (131.1)	60,1 (128.7)	58,5 (125.2)	58,7 (125.6)
50,0 (160)			– (114.2)	48,3 (111.7)	47,8 (110.4)	46,3 (107.2)	45,4 (105.3)	43,9 (101.8)	42,8 (99.4)	41,1 (95.8)	41,3 (96.2)
54,0 (180)				41,7 (89.1)	41,2 (88.1)	39,8 (84.9)	38,9 (83.0)	37,3 (79.5)	36,2 (77.1)	36,6 (73.5)	34,7 (73.8)
60,0 (200)						31,6 (67.3)	30,7 (65.4)	29,2 (61.9)	28,1 (59.5)	26,4 (55.9)	26,6 (56.2)
66,0 (220)							21,3 (50.4)	22,3 (46.5)	21,1 (43.8)	19,0 (39.2)	19,3 (40.1)
72,0 (240)								15,6 (31.8)	14,4 (29.4)	12,4 (24.9)	12,8 (25.8)
76,0 (250)								11,6 (25.2)	10,6 (23.0)	8,6 (18.6)	– (19.5)
78,0 (255)								– (21.9)	8,7 (19.9)	– (15.6)	– (16.6)

Meets ANSI B30.5 Requirements - Capacities do not exceed 75% of static tipping load.
NOTICE: This capacity chart is for reference only and must not be used for lifting purposes.

Heavy-lift boom range diagram

No. 55-79A main boom



Heavy-lift boom load charts

Liftcrane boom capacities - 18000

Boom No. 55-79A with 30,5 m (100 ft) mast No. 56

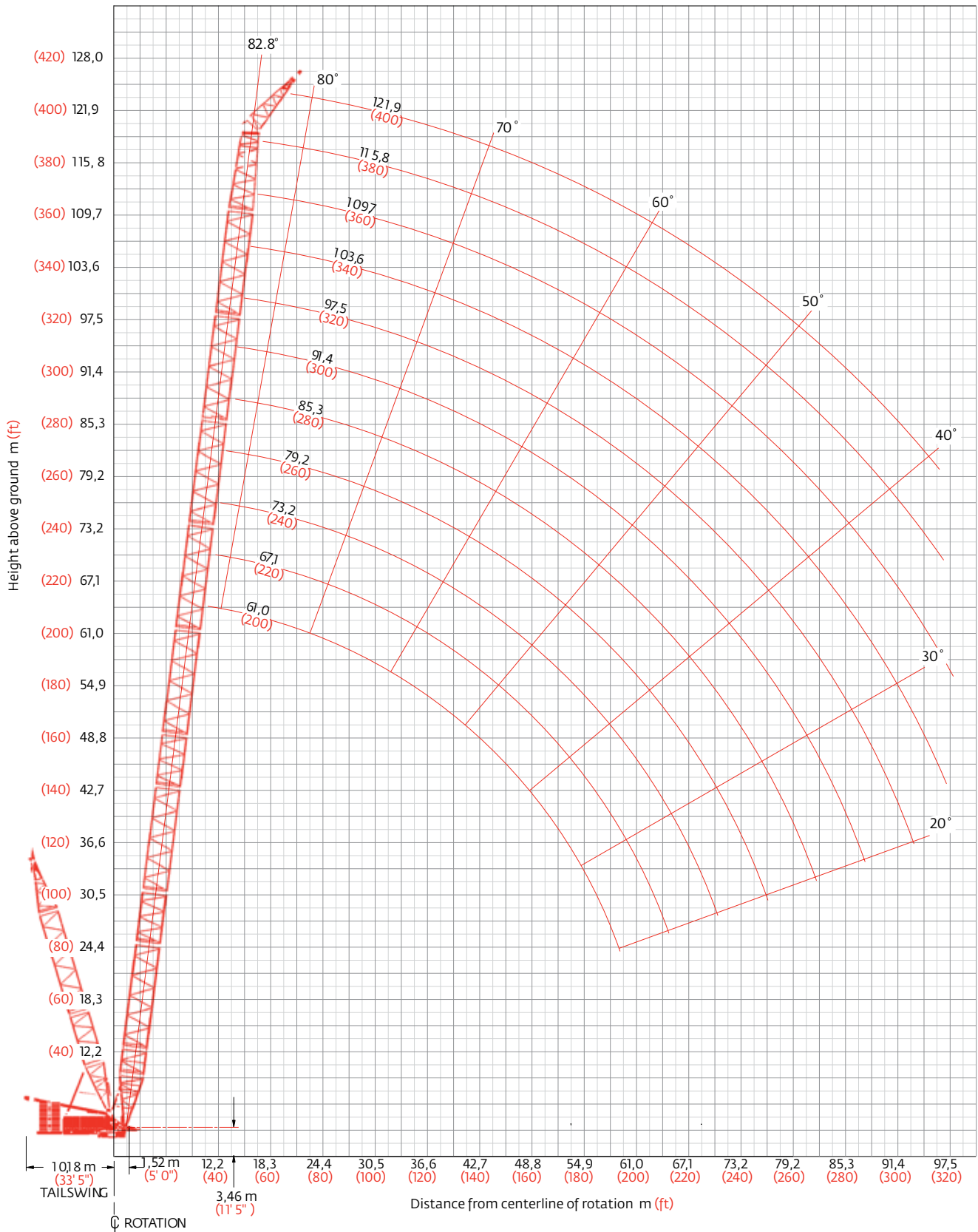
239 500 kg (528,000 lb) Counterweight 145 150 kg (320,000 lb) Carbody counterweight

360° Rating	kg (lb) x 1 000											
Boom m (ft)	36,6 (120)	42,7 (140)	48,8 (160)	61,0 (200)	67,1 (220)	73,2 (240)	85,3 (280)	91,4 (300)	97,5 (320)	109,7 (360)	115,8 (380)	121,9 (400)
Radius 7,9 (26)	453,5 (1000.0)											
9,1 (30)	453,5 (1000.0)	453,5 (1000.0)	426,0 (939.3)									
10,0 (34)	419,2 (891.6)	417,7 (888.6)	416,0 (884.8)									
12,0 (40)	349,5 (758.5)	348,2 (755.7)	346,6 (752.0)	340,7 (750.0)	309,8 (683.2)	– (633.7)						
14,0 (45)	297,2 (670.2)	296,2 (667.9)	294,8 (664.8)	294,2 (663.5)	287,1 (647.5)	268,0 (599.8)	220,7 (488.0)					
16,0 (50)	255,8 (595.8)	254,8 (593.6)	253,4 (590.5)	252,8 (589.2)	251,4 (582.7)	235,8 (543.9)	210,9 (481.2)	192,0 (430.5)	177,4 (397.5)			
18,0 (60)	224,1 (485.5)	223,1 (483.4)	221,8 (480.4)	221,2 (479.1)	220,6 (477.4)	211,8 (460.5)	186,8 (406.1)	177,3 (383.4)	167,3 (364.3)	135,3 (298.3)	– (257.4)	– (220.2)
20,0 (70)	199,0 (407.6)	198,0 (405.6)	196,6 (402.6)	196,1 (401.3)	195,3 (399.6)	192,6 (398.8)	169,7 (352.8)	159,9 (332.2)	151,7 (314.8)	133,7 (282.8)	116,0 (254.6)	99,8 (220.2)
24,0 (80)	161,5 (349.7)	160,6 (347.7)	159,3 (344.8)	158,7 (343.5)	157,9 (341.7)	157,5 (340.9)	143,8 (312.6)	135,2 (293.8)	127,8 (277.8)	114,7 (249.0)	109,5 (236.2)	99,5 (219.3)
26,0 (90)	146,0 (299.2)	145,6 (298.1)	144,7 (296.2)	144,4 (296.1)	143,6 (295.0)	143,2 (294.7)	133,7 (280.9)	125,6 (263.7)	118,7 (248.9)	106,0 (221.8)	100,3 (209.6)	95,6 (199.1)
30,0 (100)	120,0 (258.9)	119,5 (257.8)	118,6 (255.8)	118,5 (255.7)	118,0 (254.5)	117,8 (254.1)	116,5 (251.8)	110,0 (239.2)	103,8 (225.5)	92,1 (199.9)	86,8 (188.3)	82,1 (178.2)
36,0 (120)	91,1 (192.1)	92,7 (199.9)	91,7 (197.9)	91,6 (197.6)	91,1 (196.4)	90,9 (195.9)	89,8 (193.5)	89,0 (190.7)	87,2 (189.4)	76,7 (166.5)	71,9 (155.9)	67,6 (146.7)
42,0 (140)		74,2 (160.0)	73,4 (158.2)	73,3 (157.9)	72,7 (156.7)	72,5 (156.2)	71,4 (153.7)	75,5 (151.8)	70,0 (150.7)	65,4 (141.9)	60,9 (132.1)	57,0 (123.6)
48,0 (160)			59,9 (129.0)	59,9 (129.0)	59,3 (127.8)	59,2 (127.3)	58,0 (124.8)	57,2 (122.9)	56,6 (121.7)	54,9 (118.0)	52,4 (113.6)	48,9 (105.8)
54,0 (180)				49,7 (106.9)	49,2 (105.7)	49,0 (105.3)	47,8 (102.8)	47,0 (100.9)	46,4 (99.7)	44,7 (95.9)	43,8 (93.8)	42,2 (91.3)
60,0 (200)					41,1 (88.3)	41,0 (88.0)	39,8 (85.5)	39,0 (83.6)	38,4 (82.4)	36,7 (78.6)	35,8 (76.5)	35,1 (74.9)
66,0 (220)						34,5 (73.8)	33,4 (71.4)	32,5 (69.6)	32,0 (68.4)	30,3 (64.6)	29,3 (62.5)	28,6 (60.9)
72,0 (240)							28,0 (59.8)	27,2 (58.0)	26,6 (56.8)	24,9 (53.1)	24,0 (50.9)	23,2 (49.3)
78,0 (260)							23,5 (50.0)	22,7 (48.2)	22,2 (47.1)	20,4 (43.3)	19,5 (41.2)	18,8 (39.6)
84,0 (280)								18,8 (39.8)	18,3 (38.7)	16,6 (35.0)	15,7 (332.9)	14,9 (31.1)
88,0 (300)								16,4	16,0 (30.6)	14,3 (26.6)	13,1 (24.1)	12,2 (22.2)
92,0 (310)									13,5 (26.3)	11,7 (22.6)	10,5 (20.0)	9,7 (–)
96,0 (320)									10,9 (–)	9,3 (18.7)	8,2 (16.2)	7,4 (–)

Meets ANSI B30.5 Requirements - Capacities do not exceed 75% of static tipping load.
 NOTICE: This capacity chart is for reference only and must not be used for lifting purposes.

Extended upper boom point range diagram

No. 55-79A main boom with 7,6 m (25 ft) extended upper boom point



Extended upper boom point load chart

Liftcrane boom capacities - Model 18000 Boom No. 55-79A main boom with 7,6 m (25 ft) extended upper boom point

239 500 kg (528,000 lb) Counterweight
145 150 kg (320,000 lb) Carbody counterweight

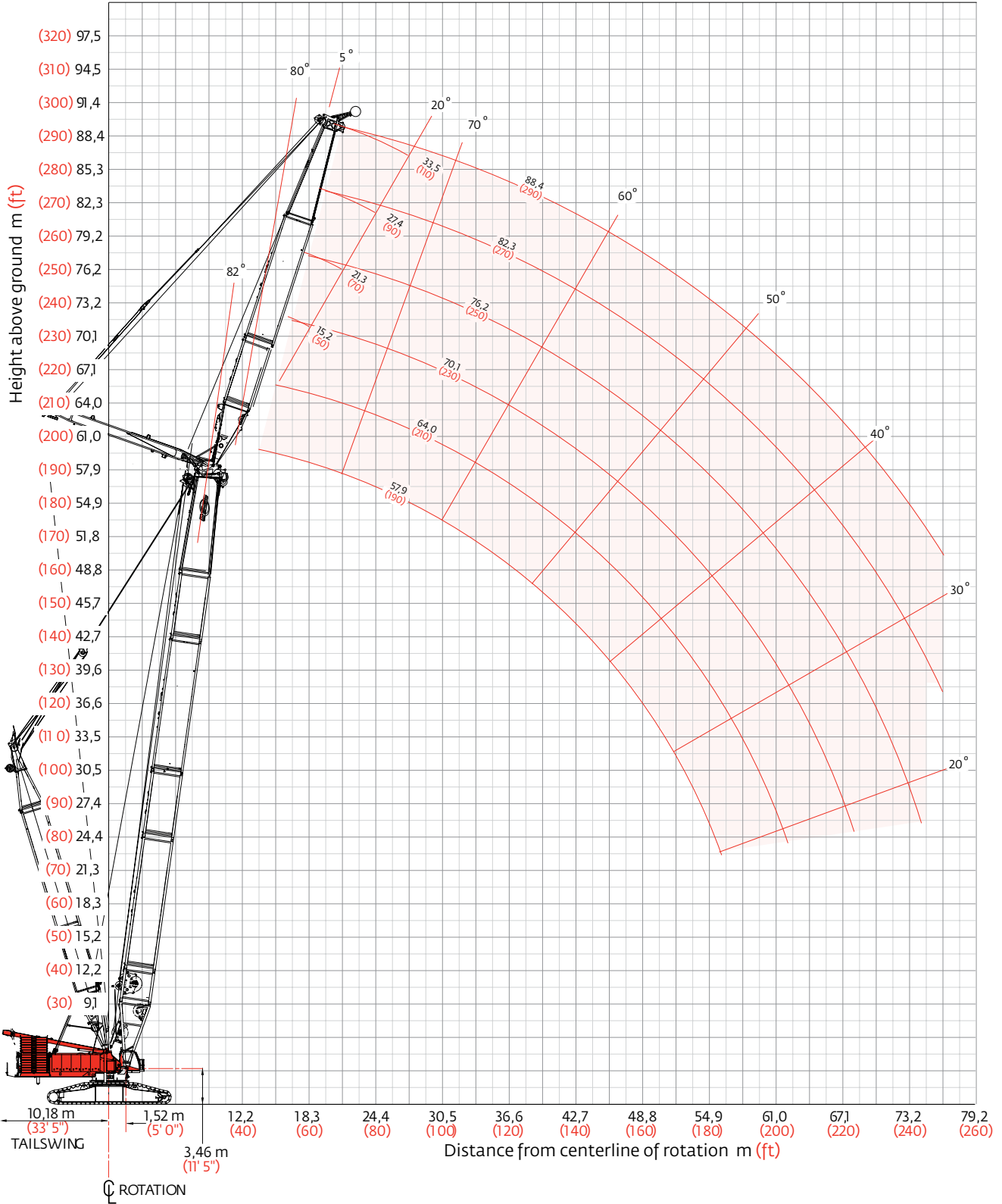
360° Rating kg (lb) x 1 000

Boom m (ft)	61,0 (200)	73,2 (240)	85,3 (280)	97,5 (320)	109,7 (360)	121,9 (400)
Radius						
15,2 (50)	132,8 (292.8)					
16,0 (55)	132,8 (292.8)					
18,0 (60)	132,8 (292.8)	132,8 (292.8)				
20,0 (65)	132,8 (292.8)	132,8 (292.8)	132,8 (292.8)	132,7 (292.8)		
22,0 (70)	132,8 (292.8)	132,8 (292.8)	132,8 (292.8)	131,6 (291.9)	99,9 (220.9)	
24,0 (80)	132,8 (292.8)	132,8 (292.8)	132,8 (292.8)	124,9 (270.1)	99,3 (218.7)	76,2 (167.8)
26,0 (85)	132,8 (292.8)	132,8 (292.8)	129,5 (286.3)	115,5 (255.5)	98,6 (217.7)	75,6 (166.9)
30,0 (100)	123,6 (265.3)	122,8 (263.6)	114,0 (248.0)	101,2 (220.0)	89,2 (194.0)	74,7 (164.5)
32,0 (105)	112,5 (248.0)	111,7 (246.3)	107,6 (237.4)	95,4 (210.3)	84,1 (185.6)	74,2 (163.7)
34,0 (110)	103,3 (232.4)	102,5 (230.7)	101,5 (227.6)	90,1 (201.4)	79,7 (178.0)	72,8 (162.2)
36,0 (120)	95,4 (205.8)	94,6 (204.0)	93,5 (201.6)	85,4 (185.7)	75,6 (164.3)	68,4 (148.5)
38,0 (125)	88,4 (194.3)	87,6 (192.4)	86,5 (190.0)	81,2 (178.6)	71,9 (158.2)	64,8 (142.6)
40,0 (130)	82,2 (183.7)	81,3 (181.8)	80,2 (179.4)	77,3 (172.0)	68,6 (152.6)	61,3 (136.7)
42,0 (140)	76,6 (165.1)	75,7 (163.2)	74,6 (160.7)	73,2 (157.8)	65,4 (142.2)	58,2 (126.2)
46,0 (150)	67,1 (149.3)	66,2 (147.3)	65,0 (144.7)	63,7 (141.8)	59,7 (132.5)	52,6 (116.8)
50,0 (165)	59,1 (129.3)	58,3 (127.4)	57,1 (124.8)	55,7 (121.7)	54,1 (118.1)	47,7 (104.6)
54,0 (175)	52,5 (118.0)	51,6 (116.1)	50,4 (113.5)	49,0 (110.5)	47,3 (106.7)	43,5 (97.4)
58,0 (190)	46,7 (103.4)	45,9 (101.6)	44,7 (99.0)	43,3 (95.9)	41,6 (92.1)	39,6 (87.7)
62,0 (205)	– (30.5)	41,0 (89.3)	39,8 (86.7)	38,4 (83.6)	36,7 (79.8)	35,1 (76.2)
68,0 (225)		34,7 (75.4)	33,6 (72.9)	32,2 (69.9)	30,5 (66.1)	28,8 (62.5)
74,0 (240)		– (17.1)	28,4 (64.2)	27,0 (61.2)	25,3 (57.3)	23,6 (53.7)
86,0 (280)				18,8 (42.5)	17,1 (38.7)	15,5 (35.1)
98,0 (320)					10,0 (22.7)	8,0 (18.3)

Meets ANSI B30.5 Requirements - Capacities do not exceed 75% of static tipping load.
NOTICE: This capacity chart is for reference only and must not be used for lifting purposes.

Fixed jib range diagram

No. 79A fixed Jib No. 79A with 15,2 m (50 ft) strut on boom No. 55 or 55A with 30,5 m (100 ft) mast No. 56



Fixed jib load charts

Liftcrane jib capacities - 18000 Series Jib No. 79A with 15,2 m (50 ft) strut on boom No. 55 or 55A with 30,5 m (100 ft) mast No. 56

239,500 kg (528,000 lb) Crane counterweight 145,150 kg (320,000 lb) Carbody counterweight

360° Rating

kg (lb) x 1 000

Boom m (ft)	5° Offset					20° Offset				
	42,7 (140)	48,8 (160)	54,9 (180)	61,0 (200)	67,1 (220)	42,7 (140)	48,9 (160)	54,9 (180)	61,0 (200)	67,1 (220)
Radius 13,7 (45)	295,0 (650.4)									
16,8 (55)	246,0 (512.6)	245,6 (510.1)	244,7 (508.0)	228,8 (504.5)	227,7 (72.4)					
22,0 (70)	165,7 (380.1)	164,3 (377.1)	163,0 (374.3)	167,2 (370.9)	160,1 (82.3)	170,4 (390.7)	169,3 (388.5)	168,5 (386.7)	167,2 (384.0)	166,5 (381.8)
26,0 (90)	133,3 (273.5)	131,8 (270.0)	130,3 (266.8)	133,5 (263.4)	127,2 (77.8)	137,0 (281.0)	135,8 (278.3)	134,7 (275.8)	133,5 (273.0)	132,2 (270.2)
36,0 (120)	79,8 (171.3)	78,5 (168.3)	77,1 (165.3)	79,3 (162.5)	74,5 (56.2)	82,3 (176.6)	81,2 (174.2)	80,2 (171.9)	79,3 (169.8)	78,1 (167.3)
42,0 (140)	60,4 (129.2)	58,9 (126.0)	57,5 (122.8)	56,2 (120.0)	54,7 (40.2)	62,1 (132.9)	61,0 (130.3)	59,8 (127.7)	58,8 (125.6)	57,5 (122.8)
48,0 (160)	46,1 (98.3)	44,6 (95.1)	43,1 (91.7)	41,9 (89.0)	40,3 (29.6)	47,2 (100.6)	46,1 (98.1)	44,8 (95.3)	43,9 (93.2)	42,5 (90.2)
54,0 (180)	34,6 (72.7)	33,4 (70.0)	31,7 (66.3)	30,4 (63.5)	28,3 (20.3)		34,5 (72.4)	33,2 (69.6)	32,3 (67.7)	30,4 (63.5)
60,0 (200)		22,8 (47.1)	21,3 (43.9)	20,2 (41.4)	18,2 (12.8)			22,3 (45.7)	21,6 (44.2)	19,8 (40.5)
68,0 (220)			- (24.6)	9,1 (22.8)	- (8.8)					8,2 (20.9)
72,0 (240)										

Boom m (ft)	5° Offset				20° Offset			
	15,2 (40)	48,0 (160)	54,0 (180)	61,0 (200)	15,2 (40)	48,0 (160)	54,0 (180)	61,0 (200)
Radius 13,7 (45)								
16,0 (55)	249,4 (518.4)	- (516.6)						
22,0 (70)	167,8 (384.8)	166,6 (382.3)	165,6 (380.1)	163,9 (376.4)	173,4 (397.5)	173,0 (396.1)		
26,0 (90)	135,1 (277.4)	133,8 (274.3)	132,5 (271.4)	130,8 (267.7)	139,6 (286.6)	138,7 (284.4)	137,9 (282.4)	136,5 (279.5)
36,0 (120)	81,8 (175.6)	80,5 (172.8)	79,3 (170.1)	77,9 (167.0)	85,0 (182.4)	84,1 (180.4)	83,2 (178.4)	82,1 (176.0)
42,0 (140)	62,1 (133.1)	60,8 (130.0)	59,4 (126.9)	58,0 (123.8)	64,5 (138.2)	63,4 (135.7)	62,3 (133.3)	61,3 (130.9)
48,0 (160)	47,8 (102.0)	46,3 (98.7)	44,8 (95.4)	43,4 (92.4)	49,5 (105.6)	48,3 (103.0)	47,2 (100.4)	46,0 (97.9)
54,0 (180)	36,7 (78.1)	35,2 (74.7)	33,6 (70.8)	32,2 (67.5)	37,9 (80.4)	35,2 (77.8)	35,4 (75.0)	34,4 (72.7)
60,0 (200)		25,1 (52.2)	23,3 (48.3)	21,9 (45.1)		25,1 (54.7)	25,0 (51.8)	24,0 (49.5)
68,0 (220)		- (32.8)	12,1 (29.4)	10,8 (26.6)				12,2 (29.7)
72,0 (240)								

Meets ANSI B30.5 Requirements - Capacities do not exceed 75% of static tipping load.
NOTICE: This capacity chart is for reference only and must not be used for lifting purposes.

Fixed jib load charts

Liftcrane jib capacities - 18000 series Jib No. 79A with 15,2 m (50 ft) strut on boom No. 55 or 55A with 30,5 m (100 ft) mast No. 56

113 040 kg (249,200 lb) Crane counterweight 54 430 kg (120,000 lb) Carbody counterweight

360° Rating

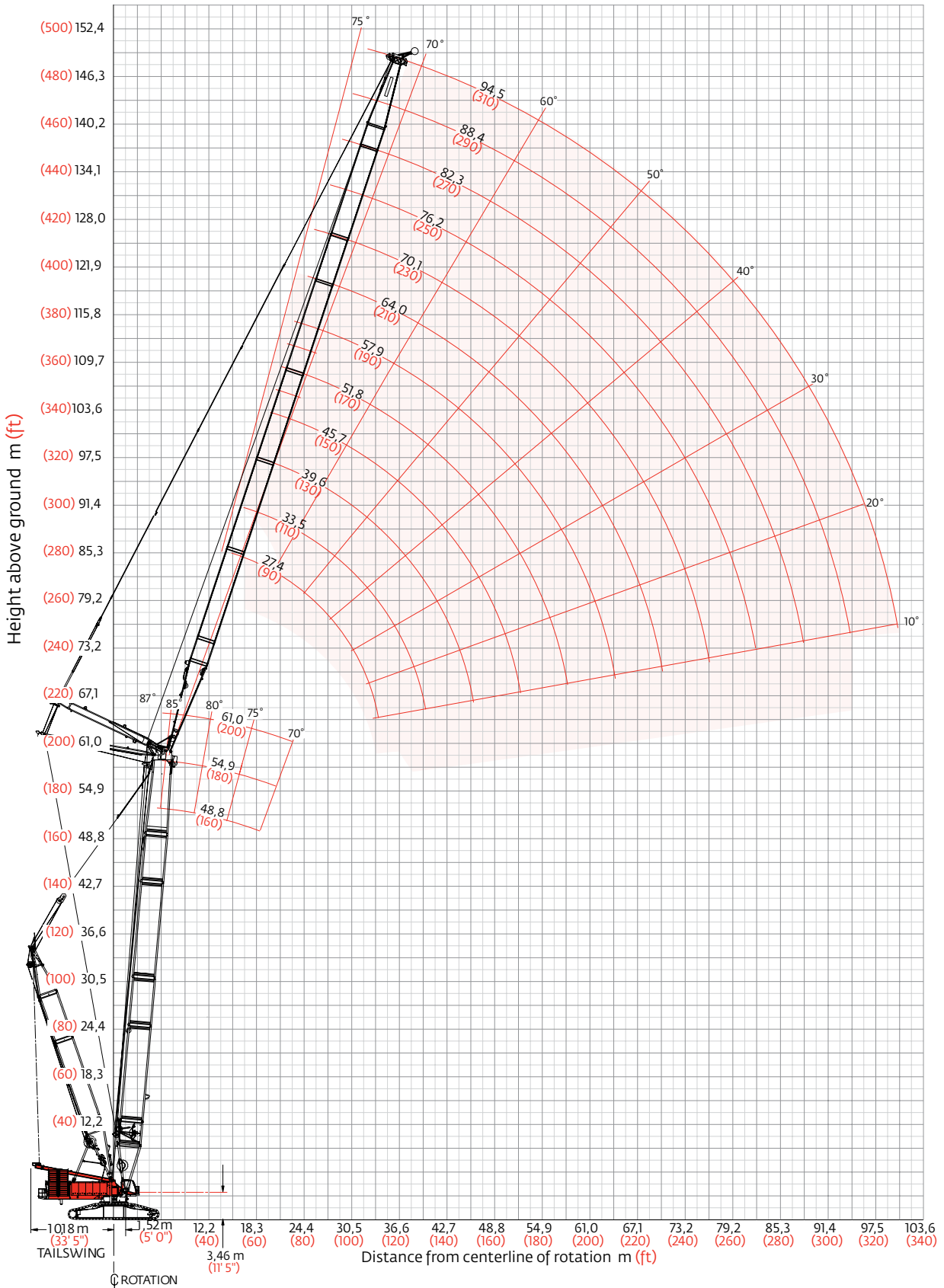
kg (lb) x1 000

		5° Offset				20° Offset			
Boom m (ft)		42,7 (140)	48,8 (160)	54,9 (180)	61,0 (200)	42,7 (140)	48,9 (160)	54,9 (180)	61,0 (200)
Jib length 27,4 m (90 ft)	Radius 13,7 (45)								
	16,0 (55)	- (520.8)							
	22,0 (70)	168,7 (386.8)	167,7 (384.7)	166,8 (382.9)	165,0 (370.9)				
	26,0 (90)	135,9 (279.0)	134,7 (276.2)	133,6 (273.6)	131,8 (269.7)	141,2 (289.9)	141,2 (288.2)	139,9 (286.6)	138,5 (283.6)
	36,0 (120)	82,9 (178.0)	81,7 (175.3)	80,6 (172.8)	79,0 (169.4)	86,8 (186.3)	86,8 (184.5)	85,3 (182.9)	84,1 (180.3)
	42,0 (140)	63,1 (135.3)	61,8 (132.2)	60,4 (129.3)	58,9 (125.9)	66,1 (141.7)	66,1 (139.4)	64,2 (137.3)	63,0 (134.6)
	48,0 (160)	48,7 (104.1)	47,2 (100.8)	45,8 (97.6)	44,3 (94.2)	51,1 (109.0)	51,1 (106.4)	48,8 (103.9)	47,5 (101.2)
	54,0 (180)	37,7 (80.2)	36,2 (76.8)	34,6 (73.4)	33,0 (69.3)	37,7 (83.9)	39,4 (81.1)	37,0 (78.4)	35,8 (75.7)
	60,0 (200)	28,1 (58.9)	26,4 (55.1)	24,6 (51.0)	22,8 (47.3)	28,1 (62.3)	28,5 (59.5)	27,0 (56.2)	25,7 (53.3)
	68,0 (220)	16,7 (39.8)	15,3 (36.5)	13,5 (32.4)	11,8 (28.8)	16,7 -	16,5 (39.3)	15,0 (36.1)	13,9 (33.5)
	72,0 (240)		10,4 (20.0)	8,7 (16.4)				9,9 (18.8)	8,8 (16.6)
	Jib length 33,5 m (110 ft)	Radius 13,7 (45)							
16,0 (55)									
22,0 (70)		169,2 (387.8)	168,3 (386.1)	167,9 (384.6)					
26,0 (90)		136,4 (280.2)	135,3 (277.6)	134,3 (275.3)		142,3 (292.5)	141,9 (291.2)	- (290.1)	
36,0 (120)		83,8 (180.0)	82,7 (177.5)	81,7 (175.2)		88,3 (189.6)	87,6 (188.1)	87,1 (186.9)	
42,0 (140)		64,1 (137.4)	62,7 (134.4)	61,5 (131.6)		67,6 (145.0)	66,7 (142.9)	65,9 (141.0)	
48,0 (160)		49,7 (106.3)	48,2 (103.0)	46,9 (99.9)		52,6 (112.3)	51,5 (109.9)	50,4 (107.5)	
54,0 (180)		38,7 (82.5)	37,2 (79.1)	35,7 (75.7)		41,0 (87.3)	39,8 (84.5)	38,6 (81.9)	
60,0 (200)		29,7 (62.4)	27,9 (58.4)	26,0 (54.2)		31,8 (67.3)	30,5 (64.2)	29,1 (60.9)	
68,0 (220)		18,8 (44.1)	17,0 (40.1)	15,0 (35.7)		20,3 (47.6)	17,0 (44.6)	17,3 (41.1)	
76,0 (250)			8,0 (17.4)				8,0 -	7,7 (16.5)	

Meets ANSI B30.5 Requirements - Capacities do not exceed 75% of static tipping load.
NOTICE: This capacity chart is for reference only and must not be used for lifting purposes.

Luffing jib range diagram

No. 79A luffing jib on No. 55 or No. 55A main boom



Luffing jib load charts

Liftcrane luffing jib capacities - 18000

Luffing jib No. 79A on boom No. 55 or No. 55A with 30,5 m (100 ft) mast No. 56

239 500 kg (528,000 lb) Counterweight 145 150 kg (320,000 lb) Carbody counterweight

360° Rating

87° Boom angle

Luffing jib length 26,0 m (90 ft)	Boom m (ft)	61,0 (200)
	Radius	
16,0 (55)	225,3 (537.4)	
18,0 (60)	200,3 (488.0)	
20,0 (70)	180,1 (411.0)	
24,0 (80)	163,2 (353.5)	
26,0 (90)	149,0 (308.8)	
30,0 (100)	126,0 (272.8)	
36,0 (120)		
42,0 (140)		
48,0 (160)		
54,0 (180)		
60,0 (200)		

Luffing jib length 33,5 m (110 ft)	Boom m (ft)	61,0 (200)
	Radius	
16,0 (55)	- (527.7)	
18,0 (60)	224,3 (486.9)	
20,0 (70)	199,9 (410.1)	
24,0 (80)	162,9 (352.9)	
26,0 (90)	148,8 (308.6)	
30,0 (100)	126,1 (273.1)	
36,0 (120)	101,5 (219.5)	
42,0 (140)		
48,0 (160)		
54,0 (180)		
60,0 (200)		

Luffing jib length 45,7 m (150 ft)	Boom m (ft)	61,0 (200)
	Radius	
16,0 (55)		
18,0 (60)		
20,0 (70)	176,5 (380.4)	
24,0 (80)	160,9 (348.8)	
26,0 (90)	146,9 (304.7)	
30,0 (100)	124,5 (269.6)	
36,0 (120)	100,3 (217.0)	
42,0 (140)	82,7 (178.4)	
48,0 (160)	68,4 (140.7)	
54,0 (180)		

Luffing jib length 57,9 m (190 ft)	Boom m (ft)	61,0 (200)
	Radius	
16,0 (55)		
18,0 (60)		
20,0 (70)		
24,0 (80)	131,8 (289.2)	
26,0 (90)	127,9 (275.3)	
30,0 (100)	119,1 (260.2)	
36,0 (120)	98,3 (212.6)	
42,0 (140)	81,0 (175.0)	
48,0 (160)	67,1 (144.7)	
54,0 (180)	56,4 (121.5)	
	47,8 (102.8)	

Meets ANSI B30.5 Requirements - Capacities do not exceed 75% of static tipping load.
 NOTICE: This capacity chart is for reference only and must not be used for lifting purposes.

Luffing jib load charts

Liftcrane luffing jib capacities - 18000

Luffing jib No. 79A on boom No. 55 or No. 55A with 30,5 m (100 ft) mast No. 56

239 500 kg (529,007 lb) Counterweight 145 150 kg (320,000 lb) Carbody counterweight

360° Rating

85° Boom angle

	Boom m (ft)	48,8 (160)	54,9 (180)	61,0 (200)
Luffing jib length 27,4 m (90 ft)	Radius 16,8 (55)	240,7 (530.7)		
	18,0 (60)	222,8 (482.0)	– (478.0)	225,3 (474.1)
	20,0 (70)	197,9 (406.0)	196,2 (402.6)	200,3 (399.3)
	24,0 (80)	161,2 (349.2)	159,9 (346.3)	163,2 (343.5)
	26,0 (90)	147,2 (305.1)	145,9 (302.6)	149,0 (300.1)
	30,0 (100)	124,6 (269.6)	123,5 (267.4)	126,0 (265.3)
	34,0 (115)			– (223.2)
	42,0 (140)			
	44,0 (150)			
	46,0 (155)			

	Boom m (ft)	48,8 (160)	54,9 (180)	61,0 (200)
Luffing jib length 36,9 m (130 ft)	Radius 16,8 (55)			
	18,0 (60)			
	20,0 (70)	– (402.0)	180,7 (398.4)	– (394.9)
	24,0 (80)	159,6 (345.7)	158,2 (342.6)	156,7 (339.5)
	26,0 (90)	145,7 (302.2)	144,4 (299.4)	143,1 (296.7)
	30,0 (100)	123,5 (267.4)	122,3 (264.9)	121,2 (262.5)
	34,0 (115)	106,5 (226.6)	105,5 (224.4)	104,6 (222.4)
	42,0 (140)	80,8 (174.4)	80,4 (173.5)	80,0 (172.5)
	44,0 (150)	75,6 (157.6)	75,3 (157.0)	74,9 (156.2)
	46,0 (155)			70,1 (148.4)

	Boom m (ft)	48,8 (160)	54,9 (180)
Luffing jib length 70,1 m (230 ft)	Radius		
	29,0 (95)	132,5 (271.7)	
	30,5 (100)	118,2 (255.5)	114,6 (252.7)
	36,0 (120)	94,3 (204.0)	93,3 (201.7)
	48,0 (160)	63,2 (136.2)	62,7 (135.2)
	60,0 (200)	44,7 (96.0)	44,3 (95.2)
	70,0 (230)	34,2 (75.2)	33,9 (74.6)
	76,0 (250)	29,0 (63.7)	28,8 (63.2)
	82,0 (270)		
	88,0 (290)		

	Boom m (ft)	48,8 (160)	54,9 (180)
Luffing jib length 94,5 m (310 ft)	Radius		
	29,0 (95)		
	30,5 (100)		
	36,0 (120)	– (153.0)	
	48,0 (160)	58,9 (126.7)	58,4 (125.5)
	60,0 (200)	40,4 (86.7)	40,0 (85.7)
	70,0 (230)	29,9 (65.7)	29,1 (64.0)
	76,0 (250)	24,6 (53.9)	23,9 (52.4)
	82,0 (270)	– (43.8)	– (42.4)
	88,0 (290)	16,1 (35.0)	15,5 (33.7)

Meets ANSI B30.5 Requirements - Capacities do not exceed 75% of static tipping load.
 NOTICE: This capacity chart is for reference only and must not be used for lifting purposes.

Luffing jib load charts

Liftcrane luffing jib capacities - 18000

Luffing jib No. 79A on boom No. 55 or No. 55A with 30,5 m (100 ft) mast No. 56

239 500 kg (529,007 lb) Counterweight 145 150 kg (320,000 lb) Carbody counterweight

360° Rating

80° Boom angle

Boom m (ft)	48,0 (160)	54,9 (180)	61,0 (200)
Radius			
26,0 (90)	139,1 (288.5)	136,5 (283.1)	134,0 (277.9)
30,0 (100)	117,9 (255.2)	115,7 (250.4)	113,5 (245.7)
36,0 (120)	94,0 (202.6)	92,6 (199.6)	91,0 (196.5)
42,0 (140)			
48,0 (160)			
54,0 (180)			
60,0 (200)			
64,0 (210)			
66,0 (220)			
70,0 (230)			

Luffing jib length 27,4 m (90 ft)

Boom m (ft)	48,0 (160)	54,9 (180)	61,0 (200)
Radius			
26,0 (90)			
30,0 (100)	116,0 (251.0)	113,6 (245.8)	– (240.8)
36,0 (120)	93,1 (200.8)	91,2 (197.2)	89,4 (193.5)
42,0 (140)	75,2 (162.3)	73,9 (159.3)	72,5 (156.3)
48,0 (160)	62,0 (133.5)	60,9 (131.2)	59,8 (128.7)
54,0 (180)			
60,0 (200)			
64,0 (210)			
66,0 (220)			
70,0 (230)			

Luffing jib length 36,9 m (130 ft)

Boom m (ft)	48,0 (160)	54,9 (180)
Radius		
38,0 (130)	– (168.4)	
40,0 (135)	75,3 (159.5)	– (155.8)
44,0 (145)	65,5 (143.5)	64,0 (140.2)
48,0 (160)	57,5 (123.7)	56,1 (120.7)
54,0 (180)	47,8 (102.8)	46,6 (100.2)
66,0 (220)	34,0 (73.0)	33,0 (70.9)
78,0 (260)	24,2 (51.4)	23,0 (48.7)
82,0 (270)		– (43.3)
88,0 (290)		
94,0 (310)		

Luffing jib length 70,1 m (230 ft)

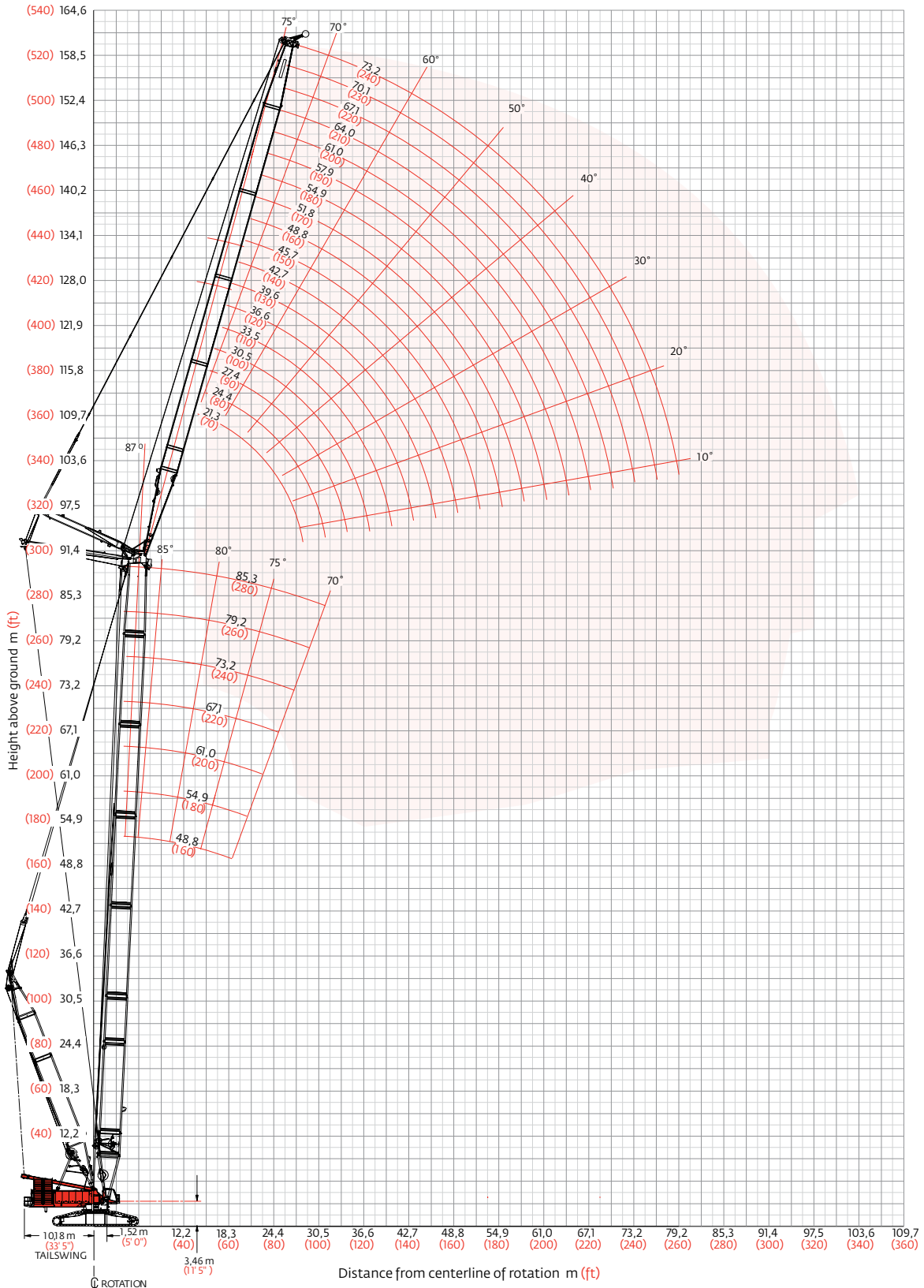
Boom m (ft)	48,0 (160)	54,9 (180)
Radius		
38,0 (130)		
40,0 (135)		
44,0 (145)	– (138.2)	
48,0 (160)	51,1 (118.5)	53,6 (115.3)
54,0 (180)	45,5 (97.7)	44,2 (94.8)
66,0 (220)	31,7 (67.6)	30,0 (64.1)
78,0 (260)	21,5 (45.5)	20,1 (42.6)
82,0 (270)	– (40.9)	– (38.1)
88,0 (290)	14,9 (32.5)	13,7 (29.9)
94,0 (310)		– (21.9)

Luffing jib length 82,3 m (270 ft)

Meets ANSI B30.5 Requirements - Capacities do not exceed 75% of static tipping load.
NOTICE: This capacity chart is for reference only and must not be used for lifting purposes.

Luffing jib range diagram

No. 44 luffing jib on No. 55/79A main boom



Luffing jib load charts

Liftcrane luffing jib capacities - 18000

Luffing jib No. 44 on boom No. 55-79A with 30,5 m (100 ft) mast No. 56

239 500 kg (528,000 lb) Counterweight 145 150 kg (320,000 lb) Carbody counterweight

360° Rating

kg (lb) x1000

85° / 87°* Boom angle

Boom m (ft)	48,8 (160)	54,9 (180)	61,0* (200)*	73,2* (240)*	85,4* (280)*
Radius			194,7 (429.3)	167,6 (369.5)	
Luffing jib length 21,3 m (70 ft)					
13,7 (45)					
15,2 (50)	247,5 (545.8)	216,6 (477.7)	– (415.9)	– (359.8)	123,3 (272.0)
18,0 (60)	189,2 (405.1)	197,4 (427.4)	170,8 (368.2)	150,0 (327.7)	119,5 (262.7)
24,0 (80)	117,7 (253.3)	122,2 (262.7)	109,9 (236.6)	115,1 (247.0)	101,0 (220.1)
30,0 (100)					
36,0 (120)					
48,0 (160)					
62,0 (200)					
66,0 (220)					
74,0 (240)					
78,0 (260)					

Boom m (ft)	48,8 (160)	54,9 (180)	61,0* (200)*	73,2* (240)*	85,4* (280)*
Radius					
Luffing jib length 36,6 m (120 ft)					
13,7 (45)					
15,0 (50)					
18,0 (60)			144,8 (317.7)	115,1 (253.5)	– (192.3)
24,0 (80)	132,3 (285.0)	135,1 (294.9)	123,2 (266.0)	109,1 (238.2)	83,4 (183.4)
30,0 (100)	94,4 (203.4)	97,0 (208.8)	89,4 (192.7)	92,9 (199.3)	77,4 (168.8)
36,0 (120)	72,0 (155.2)	73,6 (158.6)	68,7 (148.2)	70,7 (152.4)	67,6 (147.0)
48,0 (160)					
62,0 (200)					
66,0 (220)					
74,0 (240)					
78,0 (260)					

Boom m (ft)	48,8 (160)	54,9 (180)	61,0* (200)*	73,2* (240)*	85,4* (280)*
Radius					
Luffing jib length 54,9 m (180 ft)					
30,0 (100)	86,5 (188.7)	85,8 (187.4)	80,7 (176.2)	71,9 (158.5)	56,5 (124.4)
32,0 (110)	82,7 (176.3)	82,3 (175.7)	77,4 (165.6)	70,8 (152.8)	56,0 (122.3)
36,0 (120)	74,2 (159.3)	75,1 (162.8)	70,6 (152.3)	66,8 (146.0)	53,6 (117.2)
46,0 (140)	51,2 (126.6)	52,1 (129.0)	49,3 (121.6)	50,3 (124.3)	46,2 (107.1)
48,0 (160)	47,9 (103.3)	48,8 (105.0)	46,2 (99.6)	47,2 (101.6)	44,8 (97.8)
54,0 (180)	39,8 (85.7)	40,5 (87.1)	38,5 (82.8)	39,2 (84.4)	38,9 (83.9)
62,0 (200)	– (59.6)	– (66.9)		– (58.8)	– (68.7)
66,0 (220)					
74,0 (240)					
78,0 (260)					

Boom m (ft)	48,8 (160)	54,9 (180)	61,0* (200)*	73,2* (240)*	85,4* (280)*
Radius					
Luffing jib length 73,2 m (240 ft)					
30,0 (100)	– (128.0)	– (123.5)	53,1 (116.8)	46,0 (101.5)	38,6 (85.1)
32,0 (110)	– (125.9)	55,6 (121.6)	52,5 (114.9)	45,8 (100.6)	38,3 (84.2)
36,0 (120)	55,0 (119.8)	54,3 (119.0)	51,2 (112.3)	45,3 (99.9)	37,8 (83.4)
46,0 (140)	43,9 (104.8)	44,0 (104.7)	41,7 (99.1)	41,0 (96.8)	35,5 (81.3)
48,0 (160)	41,8 (90.6)	42,0 (91.1)	39,8 (86.3)	39,4 (85.4)	34,7 (75.9)
54,0 (180)	36,0 (77.8)	36,3 (78.5)	34,5 (74.6)	34,5 (74.6)	32,3 (70.5)
62,0 (200)	29,3 (66.5)	29,7 (67.3)	28,2 (64.0)	28,5 (64.5)	28,4 (64.3)
66,0 (220)	26,3 (56.6)	26,7 (57.3)	25,4 (54.6)	25,7 (55.3)	25,9 (55.7)
74,0 (240)	21,2 (48.0)	21,5 (48.7)	20,5 (46.4)	20,9 (47.2)	21,2 (47.8)
78,0 (260)	16,9 (31.2)	19,0 (35.9)		17,8 (31.1)	19,0 (37.5)

Meets ANSI B30.5 Requirements - Capacities do not exceed 75% of static tipping load.
 NOTICE: This capacity chart is for reference only and must not be used for lifting purposes.

Luffing jib load charts

Liftcrane luffing jib capacities - 18000

Luffing jib No. 44 on boom No. 55-79A with 30,5 m (100 ft) mast No. 56

239 500 kg (528,000 lb) Counterweight 145 150 kg (320,000 lb) Carbody counterweight

360° Rating

kg (lb) x 1 000

80° Boom angle

Boom m (ft)	48,8 (160)	54,9 (180)	61,0 (200)	73,2 (240)	85,4 (280)	Boom m (ft)	48,8 (160)	54,9 (180)	61,0 (200)	73,2 (240)	85,4 (280)
Radius 20,0 (70)	- (405.8)	- (401.2)				Radius 20,0 (70)					
22,0 (75)	178,3 (376.7)	176,3 (372.5)	- (368.1)			22,0 (75)					
24,0 (80)	160,9 (347.6)	160,2 (347.3)	158,0 (341.9)	- (296.4)		24,0 (80)					
26,0 (90)	138,9 (276.7)	146,8 (298.7)	144,1 (298.6)	124,8 (258.6)	- (227.2)	26,0 (90)	145,1 (305.8)	- (302.0)			
30,0 (100)	106,2 (227.5)	113,6 (243.2)	121,1 (260.9)	105,5 (228.4)	92,7 (200.6)	30,0 (100)	119,9 (256.6)	124,2 (269.1)	120,1 (259.9)	- (223.3)	
32,0 (110)	90,6 (-)	100,4 (173.3)	107,3 (215.7)	97,7 (203.7)	85,8 (178.7)	32,0 (110)	106,8 (217.4)	113,3 (229.7)	111,4 (232.6)	95,6 (199.5)	82,1 (173.5)
36,0 (120)				84,2 (181.8)	74,1 (160.2)	36,0 (120)	87,3 (187.6)	91,8 (197.1)	96,4 (207.5)	83,0 (179.7)	72,1 (156.1)
42,0 (140)						42,0 (140)	67,5 (145.0)	70,5 (151.3)	73,6 (157.9)	68,8 (148.8)	59,5 (128.7)
48,0 (160)						48,0 (160)		53,2 (104.3)	58,1 (124.4)	58,0 (125.3)	50,0 (108.1)
50,0 (170)						50,0 (170)				54,9 (114.8)	47,3 (99.3)

Boom m (ft)	48,8 (160)	54,9 (180)	61,0 (200)	73,2 (240)	85,4 (280)	Boom m (ft)	48,8 (160)	54,9 (180)	61,0 (200)	73,2 (240)	85,4 (280)
Radius - (110)	- (194.8)					Radius - (110)					
36,0 (120)	83,8 (182.6)	84,2 (183.7)	84,1 (183.5)			36,0 (120)					
42,0 (140)	69,3 (148.9)	72,5 (155.2)	74,7 (162.0)	66,7 (144.2)	56,4 (123.7)	42,0 (140)	53,2 (115.7)	53,0 (116.3)	- (111.1)		
48,0 (160)	55,5 (119.4)	57,6 (123.8)	59,8 (128.5)	56,3 (121.7)	48,0 (103.8)	48,0 (160)	46,7 (101.1)	47,2 (102.5)	47,6 (103.5)	44,0 (97.1)	37,1 (82.0)
54,0 (180)	45,6 (98.0)	47,2 (101.3)	48,8 (104.8)	48,2 (104.1)	40,9 (88.3)	54,0 (180)	40,4 (87.4)	41,3 (89.2)	41,9 (90.7)	42,7 (92.5)	37,1 (81.8)
62,0 (200)	35,9 (81.7)	37,0 (84.3)	38,2 (86.9)	39,8 (90.0)	33,5 (75.9)	62,0 (200)	33,1 (75.0)	33,9 (76.9)	34,7 (78.5)	36,0 (81.3)	31,0 (70.3)
68,0 (230)				34,0 (65.2)	29,0 (60.9)	68,0 (230)	28,3 (59.1)	29,1 (60.8)	29,8 (62.4)	31,2 (65.5)	26,7 (56.1)
78,0 (260)						78,0 (260)	21,7 (46.3)	22,3 (47.7)	23,0 (49.1)	24,3 (51.9)	21,0 (45.1)
84,0 (280)						84,0 (280)		18,6 (30.0)	19,5 (41.1)	20,8 (44.3)	18,2 (38.9)
88,0 (290)						88,0 (290)				17,3 (36.1)	16,5 (36.0)

Meets ANSI B30.5 Requirements - Capacities do not exceed 75% of static tipping load.
 NOTICE: This capacity chart is for reference only and must not be used for lifting purposes.

Luffing jib load charts

Liftcrane luffing jib capacities - 18000 Luffing jib No. 44 on boom No. 55-79A with 30,5 m (100 ft) Mast No. 56

239 500 kg (528,000 lb) Counterweight 145 150 kg (320,000 lb) Carbody counterweight
360° Rating kg (lb) x 1 000

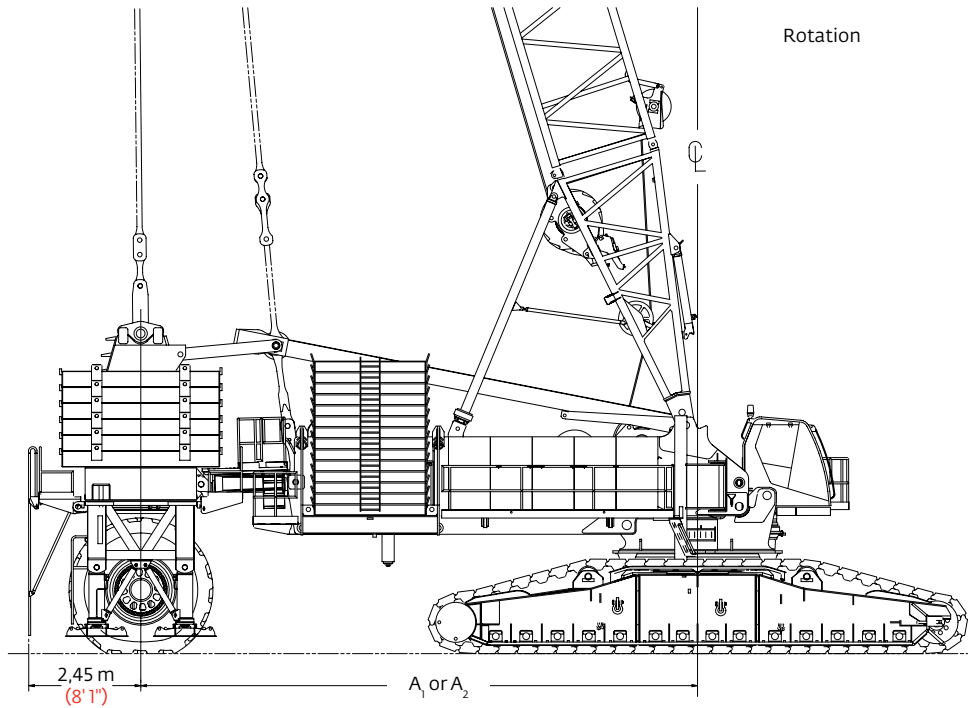
70° Boom angle

	Boom m (ft)	48,8 (160)	54,9 (180)	61,0 (200)	73,2 (240)	85,4 (280)		Boom m (ft)	48,8 (160)	54,9 (180)	61,0 (200)	73,2 (240)	85,4 (280)
Luffing jib length 21,3 m (70 ft)	Radius 32,0 (105)	107,3 (236.6)						Radius 32,0 (105)					
	34,0 (115)	99,4 (210.9)	- (205.7)					34,0 (115)					
	36,0 (120)	92,4 (199.8)	90,2 (194.9)	- (190.2)				36,0 (120)					
	42,0 (140)		73,8 (159.3)	72,2 (156.1)	68,0 (147.0)			42,0 (140)	74,8 (161.7)	- (157.0)			
	48,0 (160)				57,0 (122.9)	52,5 (113.5)		48,0 (160)	63,1 (136.3)	61,2 (132.4)	59,5 (128.7)	- (119.8)	
	50,0 (170)					49,7 (104.3)		50,0 (170)	59,8 (125.9)	58,1 (122.4)	56,5 (118.9)	52,6 (110.7)	
	54,0 (180)							54,0 (180)	54,0 (116.5)	52,5 (113.4)	51,1 (110.3)	47,5 (102.6)	42,4 (91.5)
	62,0 (200)							62,0 (200)				39,3 (88.9)	34,9 (78.9)
	64,0 (210)							64,0 (210)				37,4 (82.6)	33,2 (73.4)
	66,0 (220)							66,0 (220)					31,7 (68.2)
Luffing jib length 54,9 m (180 ft)	Radius 50,0 (170)	- (122.9)	- (118.9)					Radius 50,0 (170)					
	54,0 (180)	52,8 (114.1)	51,1 (110.3)	- (106.8)				54,0 (180)					
	62,0 (200)	43,9 (99.2)	42,5 (95.9)	41,1 (92.7)	37,8 (85.4)			62,0 (200)	40,7 (92.0)				
	66,0 (220)	40,3 (87.1)	39,0 (84.1)	37,7 (81.3)	34,6 (74.7)	29,4 (63.4)		66,0 (220)	37,1 (79.8)	37,0 (79.9)	35,6 (76.9)		
	74,0 (240)	- (73.2)	33,0 (74.2)	31,9 (71.7)	29,3 (65.9)	24,5 (55.2)		74,0 (240)	30,4 (68.6)	31,3 (70.4)	30,1 (67.7)	27,3 (61.3)	21,4 (48.4)
	78,0 (260)				27,1 (58.2)	22,4 (48.2)		78,0 (260)	27,4 (58.6)	28,9 (61.9)	27,8 (59.9)	25,1 (54.1)	19,5 (41.8)
	84,0 (280)					19,6 (41.8)		84,0 (280)	23,4 (50.0)	24,8 (52.9)	24,7 (53.3)	22,3 (47.9)	16,8 (36.1)
	90,0 (300)							90,0 (300)	20,0 (42.4)	21,2 (45.0)	22,1 (47.4)	19,8 (42.5)	14,6 (31.1)
	96,0 (320)							96,0 (320)			19,1 (41.9)	17,6 (37.7)	12,5 (26.6)
	104,0 (340)							104,0 (340)					10,0 (22.4)

Meets ANSI B30.5 Requirements - Capacities do not exceed 75% of static tipping load.
NOTICE: This capacity chart is for reference only and must not be used for lifting purposes.

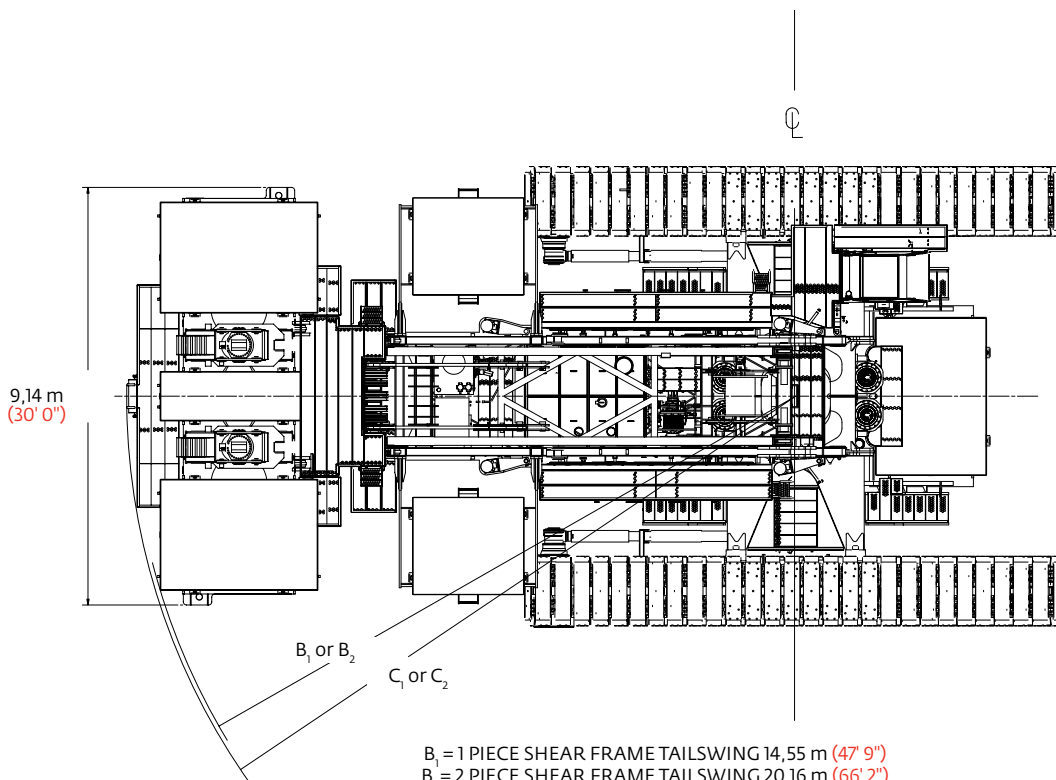
Outline dimensions

MAX-ER®



A₁ = 1 PIECE SHEAR FRAME 12,19 m (40' 0")
 A₂ = 2 PIECE SHEAR FRAME 17,98 m (59' 0")

WHEELED COUNTERWEIGHT (ONE PIECE SHEAR FRAME FOR 40' RADIUS SHOWN.)

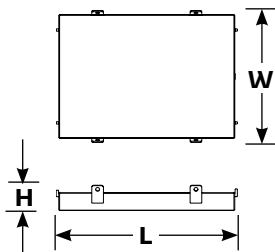
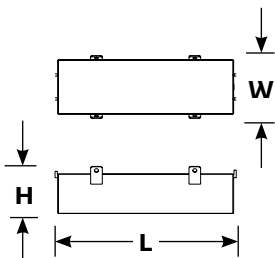
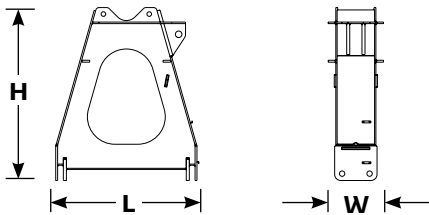
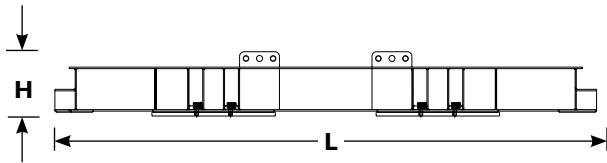
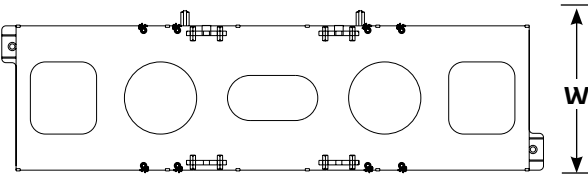
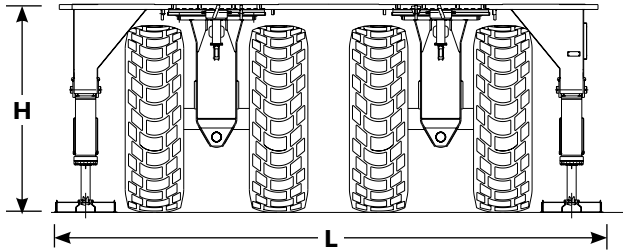
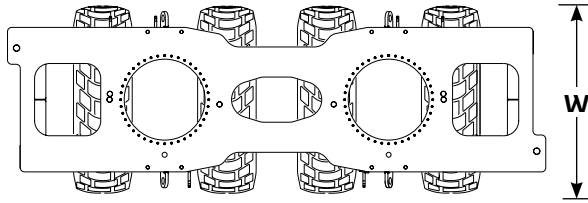


B₁ = 1 PIECE SHEAR FRAME TAILSWING 14,55 m (47' 9")
 B₂ = 2 PIECE SHEAR FRAME TAILSWING 20,16 m (66' 2")

C₁ = 1 PIECE SHEAR FRAME TAILSWING 14,66 m (48' 1")
 C₂ = 2 PIECE SHEAR FRAME TAILSWING 20,44 m (67' 1")

Outline dimensions

MAX-ER®



Wheeled carrier with tires x 1

Length	9,27 m	30' 5"
Width	3,55 m	11' 8"
Height	3,55 m	11' 8"
Weight	43 252 kg	95,355 lb

Wheeled carrier without tires x 1

Length	9,27 m	30' 5"
Width	3,30 m	10' 10"
Height	3,55 m	11' 8"
Weight	17 872 kg	39,400 lb

Counterweight tray x 1

Length	9,14 m	30' 0"
Width	2,71 m	8' 11"
Height	1,03 m	3' 5"
Weight	15 381 kg	33,910 lb

A-Frame x 2

Length	2,38 m	7' 10"
Width	0,92 m	3' 1"
Height	2,87 m	9' 5"
Weight	3 807 kg	8,395 lb

Center counterweight box x 4

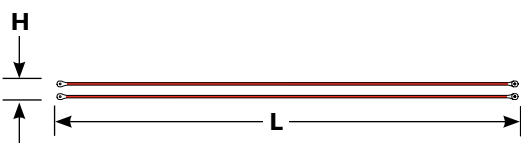
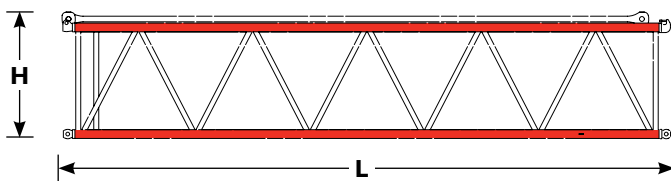
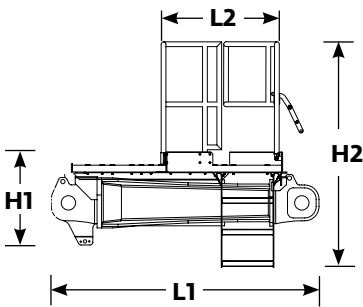
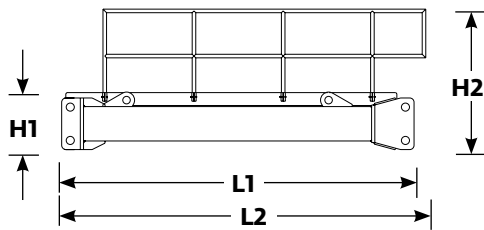
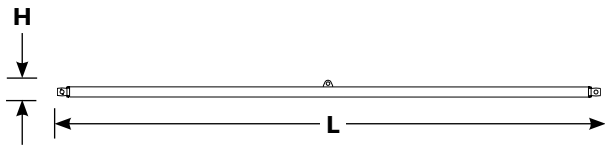
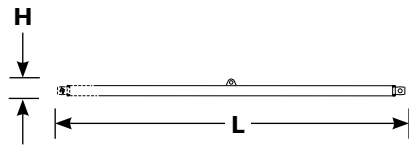
Length	3,56 m	11' 8"
Width	1,24 m	4' 10"
Height	0,93 m	3' 1"
Weight	19 958 kg	44,000 lb

Side counterweight box x 12

Length	3,56 m	11' 8"
Width	2,59 m	8' 6"
Height	0,50 m	1' 8"
Weight	19 958 kg	44,000 lb

Outline dimensions

MAX-ER®



Struts - 5,5 m (18')		x 2
Length	5,79 m	19' 0"
Width	0,28 m	0' 11"
Height	0,28 m	0' 11"
Weight	757 kg	1,670 lb

Note: For wheeled counterweight.

Struts - 9,1 m (30')		x 2
Length	9,45 m	31' 0"
Width	0,28 m	0' 11"
Height	0,28 m	0' 11"
Weight	1183 kg	2,610 lb

Note: For wheeled counterweight.

Front shear frame		x 1
Length	3,96 m	13' 0"
Width	3,40 m	11' 2"
Height 1	0,81 m	2' 8"
Weight	3199 kg	7,051 lb

Note: Shown with railings attached in operating position.

Height 2	0,61 m	2' 0"
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Rear shear frame and railings		x 1
Length 1	4,54 m	14' 11"
Width	3,40 m	11' 2"
Height 1	0,68 m	2' 3"
Weight	3556 kg	7,840 lb

Note: Shown with railings attached in operating position.

Length 2	4,40 m	14' 5"
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Height 2	1,66 m	5' 6"
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Shear frame adapter and railings		x 1
Length 1	2,61 m	8' 7"
Width	3,40 m	11' 2"
Height 1	0,83 m	2' 8"
Weight	2857 kg	6,298 lb

Note: Shown with railings attached in operating position.

Length 2	1,05 m	3' 5"
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Height 2	2,00 m	6' 7"
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No. 56 mast insert 12,2 m (40') and straps		x 1
Length	12,45 m	40' 10"
Width	3,00 m	9' 10"
Height	2,49 m	8' 2"
Weight	8085 kg	17,825 lb

Straps 8,1 m (26' 8')		x 2
Length	8,41 m	27' 6"
Width	0,08 m	0' 3"
Height	0,28 m	0' 11"
Weight	1238 kg	2,730 lb

Boom combinations

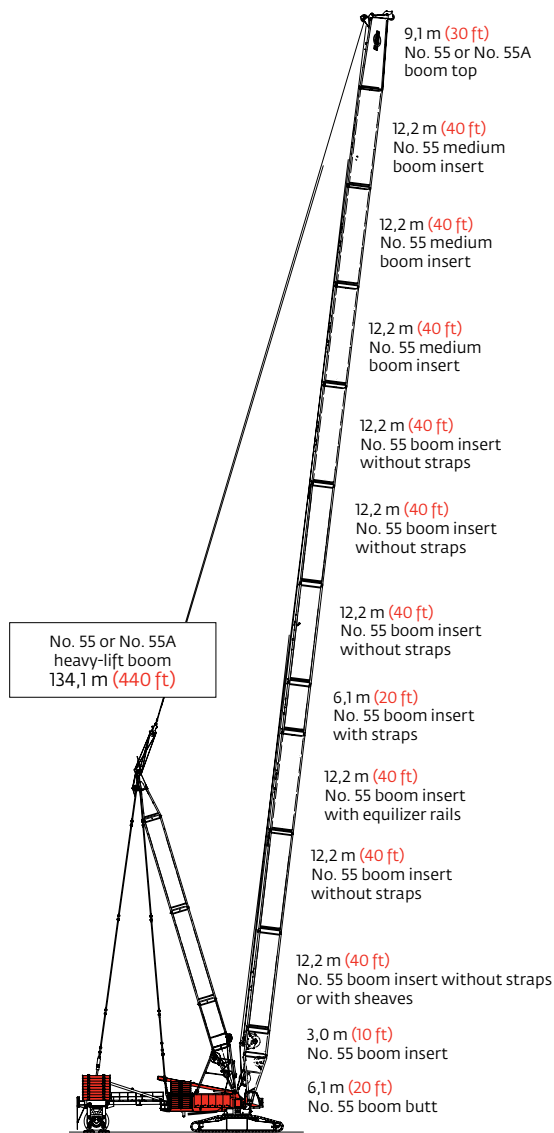
MAX-ER®

No. 55 or No. 55A boom combinations			
Boom length m (ft)	Boom inserts		
	3,0 m (10 ft)	6,1 m (20 ft)	12,2 m (40 ft)
42,7 (140)	1	–	2
48,8 (160)	1	1	2
54,9 (180)	1	–	3
61,0 (200)	1	1	3
67,1 (220)	1	2	3
73,2 (240)	1	1	4
79,2 (260)	1	2	4
85,3 (280)	1	1	5
91,4 (300)	1	2	5
97,5 (320)	1	1	6
103,7 (340)	1	2	6
109,8 (360)	1	1	7
115,9 (380)	1	2	7
122,0 (400)	1	1	8
128,0 (420)	1	2	8
134,1 (440)	1	1	9

Note: 36,6 m (120') basic boom consists of 6,1 m (20') butt, 3,0 m (10') insert with drum, 6,1 m (20') insert, 12,2 m (40'), and 9,1 m (30') top.

Note: The first 12,2 m (40') insert is always a 12,2 m (40') with equalizer platform. The second 12,2 m (40') insert can be with or without a 12,2 m (40') luffing drum storage.

May use a 12,2 m (40') No. 55 insert with or without sheaves.



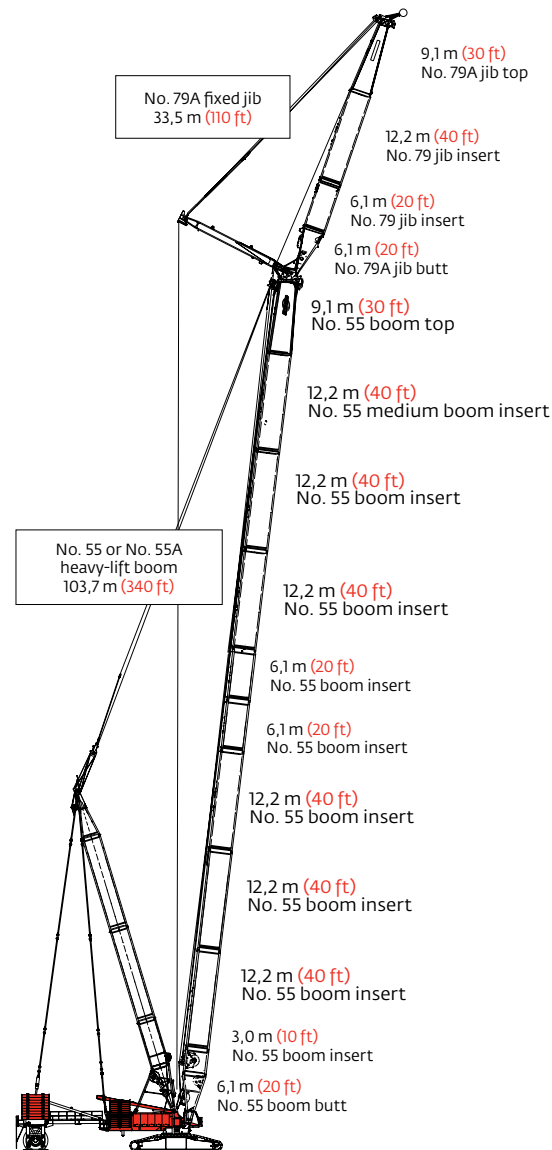
Model 18000 with MAX-ER No. 55 or No. 55A heavy-lift main boom 134,1 m (440 ft)

Boom combinations

MAX-ER®

No. 79A fixed jib combinations

Luffing jib length m (ft)	Fixed jib inserts	
	6,1 m (20 ft)	12,2 m (40 ft)
27,4 (90)	-	-
33,5 (110)	1	-
39,6 (130)	-	1
45,7 (150)	1	1

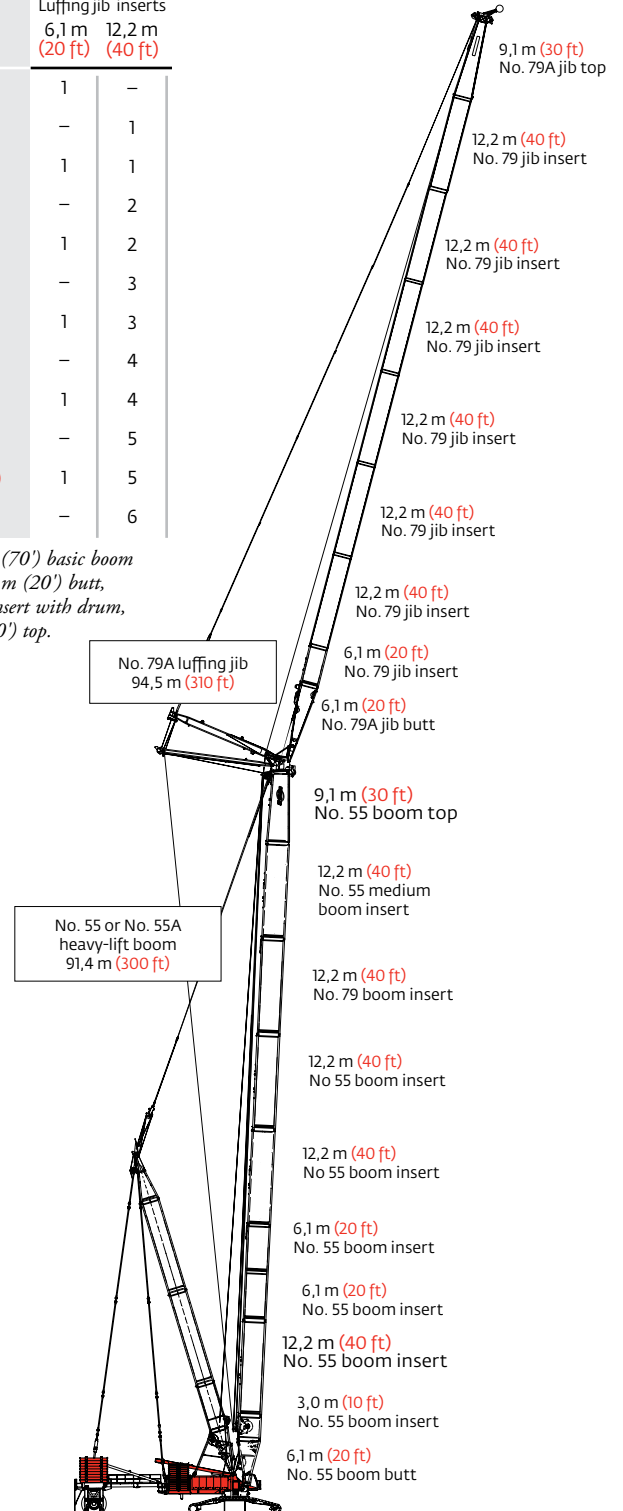


Model 18000 with MAX-ER
No. 79A fixed jib on
No. 55 or No. 55A heavy-lift main boom
137,2 m (450 ft)

No. 79A luffing jib combinations

Luffing jib length m (ft)	Luffing jib inserts	
	6,1 m (20 ft)	12,2 m (40 ft)
27,4 (90)	1	-
33,5 (110)	-	1
39,6 (130)	1	1
45,7 (150)	-	2
51,8 (170)	1	2
57,9 (190)	-	3
64,0 (210)	1	3
70,1 (230)	-	4
76,2 (250)	1	4
82,3 (270)	-	5
88,3 (290)	1	5
94,5 (310)	-	6

Note: 21,3 m (70') basic boom consists of 6,1 m (20') butt, 6,1 m (20') insert with drum, and 9,1 m (30') top.

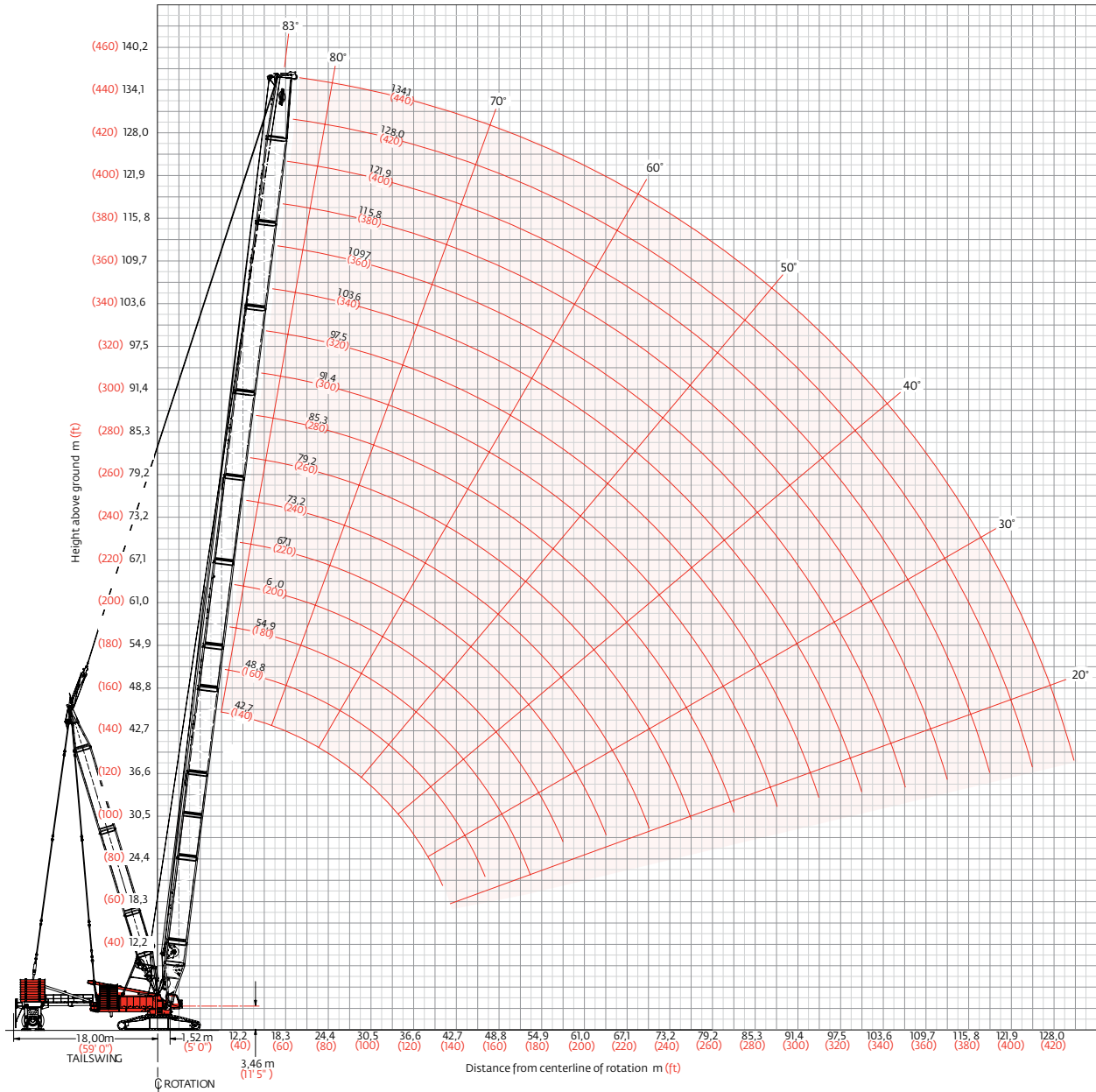


Model 18000 with MAX-ER
No. 79A luffing jib on
No. 55 or No. 55A heavy-lift main boom
185,9 m (610 ft)

Heavy-lift boom range diagram

MAX-ER®

No. 55 or No. 55A main boom



Heavy-lift boom load charts

MAX-ER®

18000 MAX-ER®

Boom No. 55 or No. 55A , with 42,7 m (140 ft)

No. 56 mast with 18 m (59 ft) position

223 170 kg (492,000 lb) Counterweight 145 150 kg (320,000 lb) Carbody counterweight

390 090 kg (860,000 lb) Wheeled counterweight or 391 810 kg (863,800 lb) hanging counterweight

360° Rating kg (lb) x 1 000

Boom m (ft)	42,7 (140)	54,9 (180)	67,1 (220)	79,2 (260)	91,4 (300)	103,6 (340)	115,8 (380)	134,0 (440)
Radius								
8,5 (28)	750,0 (1653.5)							
10,0 (34)	750,0 (1653.5)	684,8 (1509.8)						
12,0 (40)	715,7 (1543.3)	684,8 (1509.8)	570,9 (1258.0)					
14,0 (50)	649,9 (1310.1)	647,9 (1303.8)	565,8 (1240.2)	405,6 (894.4)	– (655.0)			
18,0 (60)	502,1 (1089.4)	499,3 (1083.3)	497,8 (1075.8)	405,6 (894.4)	297,1 (655.0)	223,1 (491.9)	– (374.2)	
20,0 (70)	450,8 (929.9)	448,0 (923.9)	444,6 (916.3)	405,6 (894.4)	297,1 (655.0)	223,1 (491.9)	169,7 (374.2)	117,2 (258.5)
24,0 (80)	373,1 (809.2)	370,4 (803.3)	367,0 (795.7)	364,8 (789.4)	297,1 (655.0)	223,1 (491.9)	169,7 (374.2)	117,2 (258.5)
30,0 (100)	294,5 (638.4)	291,9 (632.8)	288,5 (625.2)	285,6 (618.9)	284,2 (612.1)	223,1 (491.9)	169,7 (374.2)	117,2 (258.5)
36,0 (120)	233,1 (502.2)	239,1 (518.0)	235,6 (510.4)	232,8 (504.2)	229,7 (497.4)	223,1 (491.9)	169,5 (373.7)	116,4 (256.5)
42,0 (140)	181,4 (387.5)	201,0 (435.4)	197,6 (427.7)	194,8 (421.6)	191,8 (414.9)	189,9 (410.9)	167,2 (368.2)	115,1 (253.4)
48,0 (160)		167,5 (359.6)	168,9 (365.4)	166,1 (359.3)	163,1 (352.6)	161,3 (348.7)	159,4 (343.7)	113,6 (250.1)
54,0 (180)		134,5 (285.7)	146,4 (316.6)	143,7 (310.6)	140,7 (304.0)	138,9 (300.1)	136,6 (295.1)	112,0 (246.5)
66,0 (220)				– (237.2)	– (232.7)	106,2 (229.0)	103,9 (224.0)	110,3 (216.2)
72,0 (240)				– (197.2)	– (205.8)	– (202.1)	– (197.2)	– (189.4)
78,0 (260)					82,7 (175.8)	83,3 (179.3)	81,1 (174.5)	77,6 (166.7)
84,0 (280)					– (145.6)	– (157.4)	– (154.9)	– (147.2)
90,0 (300)					– (–)	62,3 (131.6)	64,2 (137.8)	60,7 (130.2)
96,0 (320)						– (107.9)	– (115.2)	– (115.3)
102,0 (340)							45,3 (94.8)	47,4 (99.6)
108,0 (360)							– (75.6)	– (81.6)
114,0 (380)								31,7 (65.3)
130,0 (430)								13,9 (28.0)

Meets ANSI B30.5 Requirements - Capacities do not exceed 75% of static tipping load.
 NOTICE: This capacity chart is for reference only and must not be used for lifting purposes.

Heavy-lift boom load charts

MAX-ER®

18000 MAX-ER®

Boom No. 55 or No. 55A , with 42,7 m (140 ft)

No. 56 mast with 12 m (40 ft) position

223 170 kg (492,000 lb) Counterweight 145 150 kg (320,000 lb) Carbody counterweight
 390 090 kg (860,000 lb) Wheeled counterweight or 391 810 kg (863,800 lb) hanging counterweight
 360° Rating kg (lb) x1 000

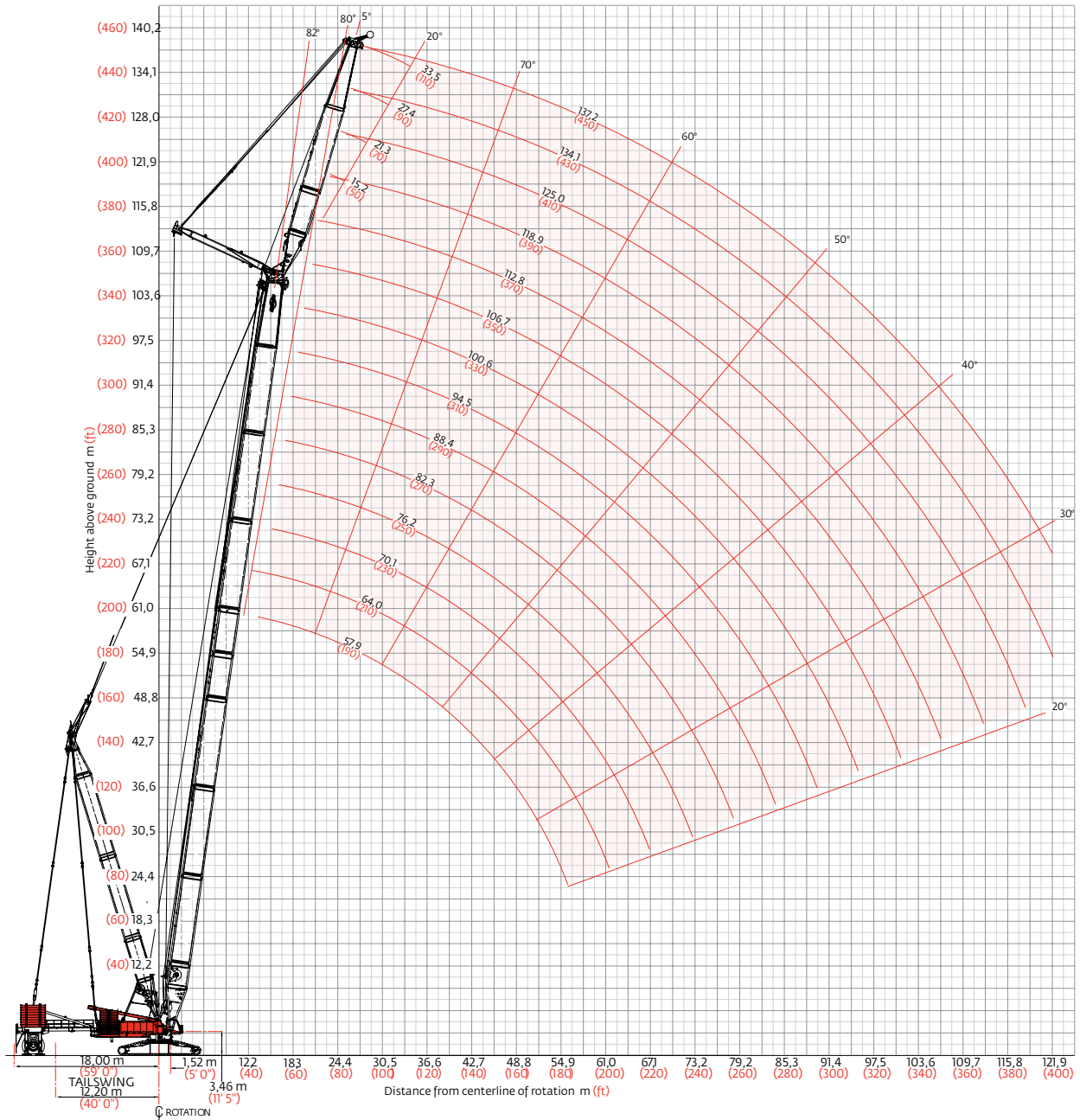
Boom m (ft)	42,7 (140)	54,9 (180)	67,1 (220)	79,2 (260)	91,4 (300)	103,6 (340)	115,8 (380)	134,0 (440)
Radius								
8,5 (28)	750,0 (1653.5)							
10,0 (34)	729,8 (1543.3)	684,8 (1509.8)						
12,0 (40)	614,4 (1333.6)	611,4 (1327.0)	570,9 (1258.0)					
14,0 (50)	526,7 (1066.1)	523,8 (1059.8)	522,6 (1052.4)	405,6 (894.4)	– (655,0)			
18,0 (60)	407,8 (884.7)	405,0 (878.6)	401,6 (871.1)	394,8 (864.8)	297,1 (655,0)	223,1 (491.9)	– (374.2)	
20,0 (70)	365,7 (753.6)	362,9 (747.6)	359,5 (740.0)	356,7 (733.8)	297,1 (655,0)	223,1 (491.9)	169,7 (374.2)	117,2 (258.5)
24,0 (80)	299,3 (646.1)	299,1 (648.4)	295,7 (640.9)	292,8 (634.6)	287,8 (627.8)	223,1 (491.9)	169,7 (374.2)	117,2 (258.5)
30,0 (100)	222,7 (480.4)	234,6 (508.3)	231,1 (500.7)	228,3 (494.4)	225,2 (487.6)	220,5 (483.6)	169,7 (374.2)	117,2 (258.5)
36,0 (120)	171,3 (368.6)	189,2 (407.2)	187,7 (406.3)	184,8 (400.1)	181,8 (393.3)	180,0 (389.3)	169,5 (373.7)	116,4 (256.5)
42,0 (140)	131,4 (280.0)	149,8 (322.1)	156,4 (338.3)	153,6 (332.1)	150,5 (325.4)	148,7 (321.5)	146,4 (316.4)	115,1 (253.4)
48,0 (160)		119,9 (256.9)	128,7 (276.3)	130,0 (280.9)	126,9 (274.2)	125,2 (270.3)	122,9 (265.3)	113,6 (250.1)
54,0 (180)		94,7 (199.7)	104,6 (223.9)	110,8 (237.1)	108,5 (234.2)	106,8 (230.3)	104,5 (225.3)	100,9 (217.4)
66,0 (220)				74,3 (158.1)	77,4 (165.0)	79,8 (171.8)	77,5 (166.8)	74,0 (159.0)
72,0 (240)				– (127.1)	– (134.6)	– (142.0)	– (144.7)	– (136.9)
78,0 (260)					51,5 (108.5)	54,8 (115.8)	56,3 (119.2)	55,2 (118.2)
84,0 (280)					– (85.1)	– (93.2)	– (96.4)	– (98.3)
90,0 (300)					– (–)	35,2 (73.2)	36,7 (76.5)	37,4 (78.0)
96,0 (320)						– (54.7)	– (59.0)	– (60.2)
102,0 (340)							21,4 (43.1)	22,0 (44.6)
108,0 (360)							– (28.2)	– (30.7)
114,0 (380)								9,8 (18.0)
130,0 (430)								

Meets ANSI B30.5 Requirements - Capacities do not exceed 75% of static tipping load.
 NOTICE: This capacity chart is for reference only and must not be used for lifting purposes.

Fixed jib range diagram

MAX-ER®

No. 79A fixed jib No. 79A with 15,2 m (50 ft) strut on boom No. 55 or 55A with 42,7 m (140 ft) mast No. 56



Luffing jib load charts

MAX-ER®

Liftcrane jib capacities - 18000 MAX-ER® Jib No. 79A with 15,2 m (50 ft) strut on boom No. 55 or 55A with 42,7 m (140 ft) mast No. 56

223,170 kg (528,000 lb) Crane counterweight 145,150 kg (320,000 lb) Carbody counterweight
390,090 kg (860,000 lb) Wheeled counterweight at 18 m (59') position
360° Rating kg (lb) x1 000

	5° Offset					20° Offset				
	42,7 (140)	61,0 (200)	79,3 (260)	91,4 (300)	103,7 (340)	42,7 (140)	61,0 (200)	79,3 (260)	91,4 (300)	103,7 (340)
Radius 13,7 (45)	500,0 (1102.4)									
20,0 (70)	444,9 (915.9)	391,7 (855.8)	262,5 (578.8)	- (437.3)		290,8 (619.0)	311,4 (670.5)			
30,0 (100)	286,4 (620.5)	281,3 (609.2)	262,5 (578.8)	198,3 (437.3)	148,6 (327.4)	230,1 (502.6)	264,2 (578.5)	246,0 (542.5)	182,4 (402.3)	131,6 (290.3)
32,0 (120)	266,4 (503.9)	261,2 (492.4)	255,9 (480.6)	198,3 (435.3)	148,0 (323.6)	221,2 (448.8)	256,6 (498.7)	246,0 (488.5)	182,4 (402.3)	131,6 (290.3)
48,0 (160)	151,5 (325.2)	159,9 (344.7)	154,1 (332.8)	150,8 (325.5)	142,6 (313.9)	154,2 (330.9)	161,3 (348.5)	156,6 (338.0)	153,6 (331.4)	130,9 (288.2)
60,0 (200)		114,8 (245.4)	112,9 (243.1)	109,5 (235.7)	107,2 (230.7)		117,3 (250.5)	114,4 (246.5)	111,4 (239.8)	109,3 (235.3)
72,0 (240)		75,7 (179.4)	83,8 (195.8)	81,6 (188.4)	79,4 (170.2)			85,8 (182.5)	82,9 (177.9)	80,9 (173.4)
84,0 (280)			54,7 (144.2)	57,3 (149.8)	59,3 (126.3)				59,1 (123.9)	60,3 (128.7)
90,0 (300)			- (86.4)	- (94.4)	- (100.2)				- (96.8)	- (103.8)
102,0 (340)					- (56.5)					
112,0 (370)					- (28.0)					

	5° Offset					20° Offset				
	42,7 (140)	61,0 (200)	79,3 (260)	91,4 (300)	103,7 (340)	42,7 (140)	61,0 (200)	79,3 (260)	91,4 (300)	103,7 (340)
Radius 13,7 (45)										
20,0 (70)	400,8 (877.6)	340,0 (749.6)	- (464.2)			271,8 (577.6)	-			
30,0 (100)	288,0 (623.8)	283,0 (612.8)	210,5 (464.2)	171,9 (379.1)	130,2 (286.9)	212,4 (463.5)	231,9 (507.5)	206,7 (455.7)	158,3 (349.2)	117,0 (258.0)
32,0 (120)	267,8 (506.9)	262,8 (495.4)	210,5 (464.2)	171,9 (374.8)	129,8 (284.0)	203,6 (410.4)	224,7 (463.6)	206,7 (455.7)	158,3 (349.2)	117,0 (258.0)
48,0 (160)	157,0 (337.5)	160,7 (347.2)	155,3 (335.2)	152,0 (328.0)	125,5 (276.1)	154,5 (337.0)	163,0 (352.2)	158,3 (341.8)	155,3 (335.5)	117,0 (258.0)
60,0 (200)	104,9 (223.3)	119,0 (255.7)	113,8 (245.1)	110,4 (237.7)	108,1 (232.6)		120,6 (260.0)	115,9 (249.6)	112,9 (243.0)	111,1 (238.5)
72,0 (240)		81,3 (172.4)	85,7 (184.2)	82,4 (176.8)	80,0 (171.7)			87,2 (187.2)	84,1 (180.5)	82,1 (176.0)
84,0 (280)			58,5 (123.0)	60,5 (127.3)	59,8 (127.8)			60,4 (126.7)	63,1 (132.5)	61,3 (130.8)
90,0 (300)			- (96.7)	- (101.4)	- (106.1)				- (105.3)	- (111.3)
102,0 (340)				- (57.0)	- (62.3)					- (65.3)
112,0 (370)					16,7 (34.7)					

Meets ANSI B30.5 Requirements - Capacities do not exceed 75% of static tipping load.
NOTICE: This capacity chart is for reference only and must not be used for lifting purposes.

Luffing jib load charts

MAX-ER®

Liftcrane jib capacities - 18000 MAX-ER® Jib No. 79A with 15,2 m (50 ft) strut on boom No. 55 or 55A with 42,7 m (140 ft) mast No. 56

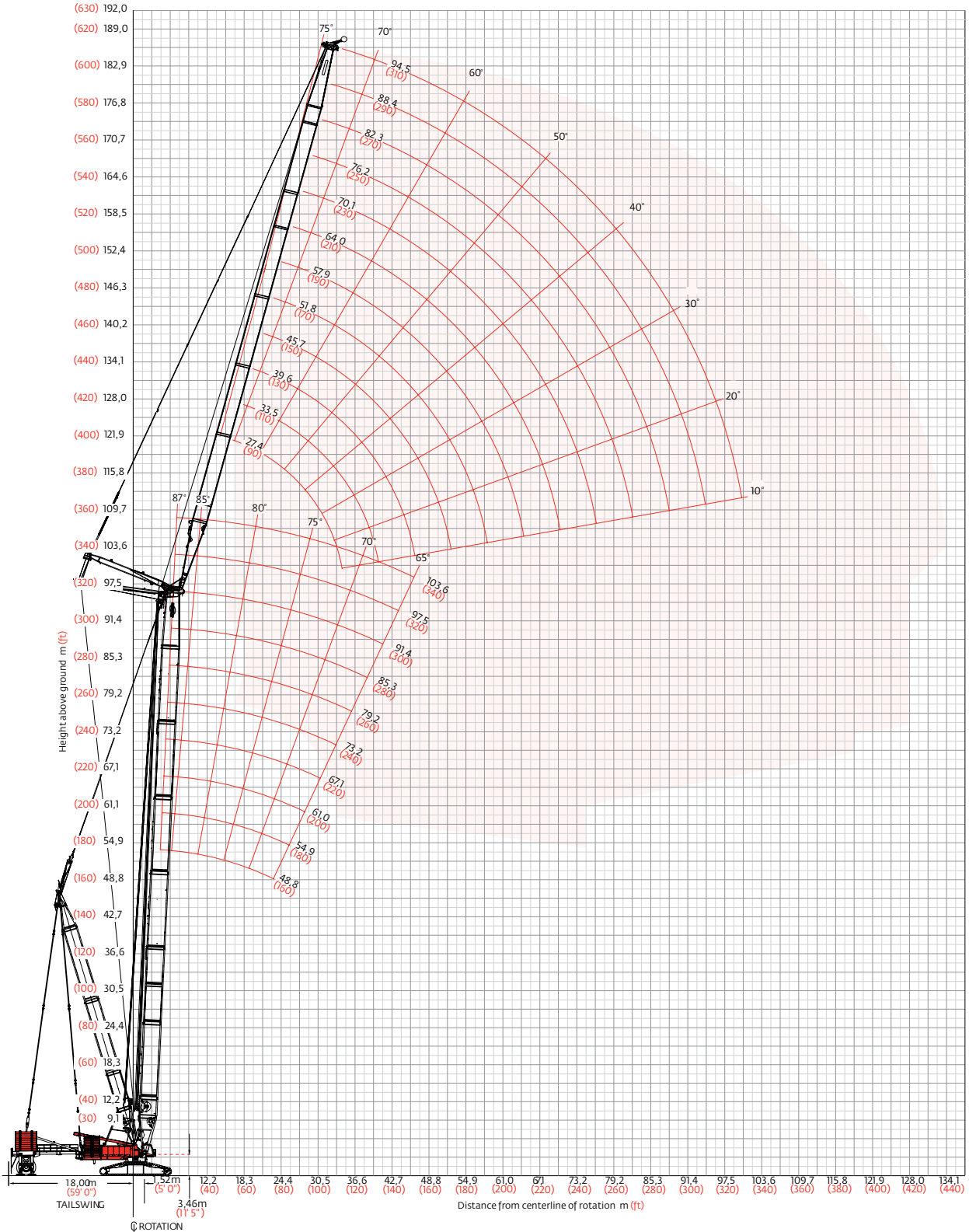
223,170 kg (528,000 lb) Crane counterweight 145,150 kg (320,000 lb) Carbody counterweight
390,090 kg (860,000 lb) Wheeled counterweight at 18 m (59') position
360° Rating kg (lb) x 1 000

		5° Offset					20° Offset					
Boom m (ft)		42,7 (140)	61,0 (200)	79,3 (260)	91,4 (300)	103,7 (340)	42,7 (140)	61,0 (200)	79,3 (260)	91,4 (300)	103,7 (340)	
Jib length 27,4 m (90 ft)	Radius 13,7 (45)											
	20,0 (70)	344,1 (755.6)	289,5 (638.4)									
	30,0 (100)	282,4 (614.9)	282,0 (614.3)	182,4 (402.2)	134,5 (296.7)	99,7 (220.0)	208,1 (453.9)	213,4 (466.8)	178,2 (392.9)	– (304.5)		
	32,0 (120)	268,1 (598.1)	263,4 (496.7)	182,4 (402.2)	134,5 (296.7)	99,7 (220.0)	198,9 (398.2)	206,5 (423.7)	178,2 (392.9)	138,1 (304.5)	104,3 (230.0)	
	48,0 (160)	160,3 (345.0)	161,2 (348.3)	155,7 (336.2)	134,5 (296.7)	99,7 (220.0)	147,0 (320.3)	163,7 (354.6)	159,4 (344.3)	138,1 (304.5)	104,3 (230.0)	
	60,0 (200)	110,1 (235.5)	119,7 (258.1)	114,1 (245.8)	110,8 (238.5)	99,7 (220.0)	113,0 (241.6)	121,6 (262.2)	116,8 (251.6)	113,8 (245.1)	103,7 (228.6)	
	72,0 (240)		85,0 (180.8)	86,1 (185.0)	82,7 (177.5)	80,3 (172.2)		87,8 (186.7)	88,0 (189.0)	84,9 (182.3)	82,8 (177.7)	
	84,0 (280)			61,3 (129.2)	62,4 (132.4)	60,0 (128.2)			64,0 (134.9)	64,0 (136.8)	61,9 (132.2)	
	90,0 (300)			– (103.6)	– (106.5)	– (110.4)			– (107.8)	– (112.4)	– (113.8)	
	102,0 (340)				– (63.0)	– (66.6)					– (71.3)	
	112,0 (370)				16,6 (34.4)	18,8 (39.4)					20,3 (42.5)	
	122,0 (400)					– (15.0)						
	Jib length 33,5 m (110 ft)	Radius 13,7 (45)										
20,0 (70)		– (703.3)										
30,0 (100)		261,7 (569.7)	245,7 (541.8)	158,4 (349.3)			201,0 (438.4)	202,5 (442.9)	– (343.8)			
32,0 (120)		248,2 (488.0)	245,7 (498.0)	158,4 (349.3)	119,7 (264.1)	85,7 (189.0)	192,2 (385.4)	195,7 (400.5)	155,9 (343.8)	121,6 (268.3)	– (201.4)	
48,0 (160)		163,0 (350.9)	161,8 (349.7)	155,7 (337.4)	119,7 (264.1)	85,7 (189.0)	142,3 (310.1)	153,4 (334.9)	158,3 (343.8)	121,6 (268.3)	91,3 (201.4)	
60,0 (200)		113,8 (243.9)	120,3 (259.6)	114,7 (247.2)	111,4 (239.8)	85,7 (189.0)	117,7 (251.9)	122,8 (264.9)	117,9 (254.1)	115,0 (247.7)	91,2 (201.4)	
72,0 (240)		78,5 (166.4)	88,3 (188.2)	86,7 (186.4)	83,3 (173.5)	80,9 (173.5)		92,1 (196.3)	89,1 (191.5)	86,1 (184.8)	82,1 (178.3)	
84,0 (280)			60,7 (128.0)	64,1 (135.4)	63,1 (134.9)	60,6 (129.5)		63,0 (132.6)	67,8 (143.1)	65,1 (139.3)	63,0 (134.6)	
90,0 (300)			– (101.1)	– (110.2)	– (112.1)	– (111.8)			– (116.5)	– (120.0)	– (116.2)	
102,0 (340)				– (67.1)	– (69.2)	– (71.7)				– (74.4)	– (78.2)	
112,0 (370)					20,0 (42.1)	21,2 (44.8)					23,5 (49.6)	
122,0 (400)						– (21.3)						

Luffing jib range diagram

MAX-ER®

No. 79A luffing jib on No. 55 or No. 55A main boom



Luffing jib load charts

MAX-ER®

Liftcrane luffing jib capacities - 18000 MAX-ER®

Luffing jib No. 79A on boom No. 55 or No. 55A with 42,7 m (140 ft) mast No. 56

223 170 kg (492,000 lb) Counterweight 145 150 kg (320,000 lb) Carbody counterweight

390 090 kg (860,000 lb) Wheeled counterweight or hanging counterweight

360° Rating kg (lb) x 1 000

85° Boom angle

	Luffing jib length 27,4 m (90 ft)				Luffing jib length 45,7 m (150 ft)					
	Boom m (ft)	48,8 (160)	61,0 (200)	79,2 (260)	91,4 (300)	Boom m (ft)	48,8 (160)	61,0 (200)	79,2 (260)	91,4 (300)
Radius										
16,8 (55)		334,6 (737.7)								
18,0 (60)		327,0 (717.0)	– (632.0)							
20,0 (70)		315,9 (681.7)	274,9 (584.0)	189,0 (409.5)	– (313.5)					
24,0 (80)		282,5 (602.7)	243,7 (530.6)	175,2 (382.8)	139,3 (305.7)		223,8 (490.8)	– (390.4)		
26,0 (90)		248,0 (504.9)	227,8 (478.5)	166,8 (354.5)	134,1 (286.8)		215,1 (459.0)	173,3 (371.2)	125,6 (271.0)	100,5 (218.0)
30,0 (100)		196,5 (416.7)	199,5 (433.3)	150,4 (327.6)	122,8 (268.1)		195,0 (424.5)	159,0 (346.6)	117,3 (256.5)	95,0 (207.8)
36,0 (120)				128,8 (271.8)	110,1 (241.6)		160,2 (345.1)	136,0 (295.2)	103,3 (224.9)	85,0 (185.2)
42,0 (140)							128,3 (276.5)	115,3 (249.8)	89,8 (195.1)	74,9 (162.9)
48,0 (160)							103,7 (216.6)	99,4 (215.7)	78,9 (171.5)	66,5 (144.6)
54,0 (180)									73,5 (163.4)	61,5 (135.7)

	Luffing jib length 70,1 m (230 ft)				Luffing jib length 94,5 m (310 ft)					
	Boom m (ft)	48,8 (160)	61,0 (200)	79,2 (260)	91,4 (300)	Boom m (ft)	48,8 (160)	61,0 (200)	79,2 (260)	91,4 (300)
Radius										
28,0 (95)		– (279.7)								
32,0 (105)		117,8 (273.8)	103,3 (227.9)	77,2 (170.2)						
36,0 (120)		112,0 (258.3)	98,3 (215.2)	73,7 (161.5)	59,8 (131.1)					
42,0 (140)		101,0 (234.3)	89,6 (195.3)	67,8 (147.9)	55,2 (120.6)		68,4 (150.6)	60,1 (131.8)	45,2 (99.2)	36,3 (79.6)
54,0 (180)		77,9 (183.9)	71,0 (153.9)	54,7 (118.8)	45,1 (97.9)		53,8 (116.2)	53,0 (115.5)	39,9 (87.1)	31,9 (69.6)
66,0 (220)		59,2 (133.0)	55,8 (120.8)	43,8 (94.9)	36,4 (79.0)		38,8 (83.0)	39,3 (84.3)	33,7 (73.2)	26,8 (58.2)
78,0 (260)				38,4 (83.6)	32,0 (71.2)		26,2 (55.3)	27,0 (57.2)	25,5 (54.1)	22,1 (45.5)
90,0 (300)							– (33.3)	– (34.9)	– (34.3)	– (35.4)
96,0 (320)							11,9 (24.2)	12,6 (25.6)	12,5 (25.6)	13,1 (26.8)
102,0 (340)									– (18.2)	– (19.2)

Meets ANSI B30.5 Requirements - Capacities do not exceed 75% of static tipping load.
 NOTICE: This capacity chart is for reference only and must not be used for lifting purposes.

Luffing jib load charts

MAX-ER®

Liftcrane luffing jib capacities - 18000 MAX-ER*

Luffing jib No. 79A on boom No. 55 or No. 55A with 42,7 m (140 ft) mast No. 56

223 170 kg (492,000 lb) Counterweight 145 150 kg (320,000 lb) Carbody counterweight

390 090 kg (860,000 lb) Wheeled counterweight or hanging counterweight

360° Rating kg (lb) x 1 000

80° Boom angle

	Boom m (ft)				Boom m (ft)				
	48,8 (160)	61,0 (200)	79,2 (260)	91,4 (300)	48,8 (160)	61,0 (200)	79,2 (260)	91,4 (300)	
Luffing jib length 27,4 m (90 ft)	Radius 22,0 (75)				Radius 22,0 (75)				
	24,0 (80)	- (700.0)			24,0 (80)				
	26,0 (90)	309,2 (650.5)	295,3 (631.2)		26,0 (90)				
	30,0 (100)	251,4 (539.5)	267,5 (581.5)	191,5 (420.9)	30,0 (100)	- (485.3)			
	32,0 (110)	225,0 (458.4)	251,8 (512.9)	177,4 (395.5)	32,0 (110)	215,5 (464.9)	189,5 (410.2)		
	36,0 (120)	177,0 (363.5)	204,5 (438.3)	169,2 (368.0)	36,0 (120)	192,2 (411.9)	178,9 (390.4)	130,9 (287.0)	
	42,0 (140)			148,2 (323.7)	42,0 (140)	149,5 (321.5)	157,4 (341.5)	119,5 (260.3)	97,6 (213.0)
	48,0 (160)				48,0 (160)	121,0 (260.1)	130,1 (279.4)	105,9 (229.7)	88,1 (191.5)
	54,0 (180)				54,0 (180)	97,7 (198.1)	106,9 (229.6)	92,9 (201.3)	78,4 (170.2)
	60,0 (200)				60,0 (200)			83,6 (183.1)	70,6 (153.9)
Luffing jib length 70,1 m (230 ft)	Radius 38,0 (130)				Radius 38,0 (130)				
	46,0 (150)	112,0 (248.1)	105,0 (232.0)	79,0 (174.7)	46,0 (150)				
	50,0 (170)	104,3 (222.2)	100,5 (216.2)	76,3 (164.7)	50,0 (170)	64,8 (138.4)	- (128.4)		
	60,0 (200)	81,6 (175.2)	85,6 (185.5)	66,5 (144.4)	60,0 (200)	51,9 (111.8)	53,1 (114.7)	45,8 (101.0)	37,0 (81.2)
	70,0 (230)	62,5 (137.5)	65,9 (145.1)	55,9 (123.2)	70,0 (230)	39,5 (86.9)	41,4 (91.1)	39,3 (86.5)	34,0 (74.9)
	78,0 (260)	48,8 (95.5)	53,8 (115.1)	48,8 (105.7)	78,0 (260)	30,7 (64.9)	32,6 (69.3)	32,0 (68.1)	30,9 (67.2)
	88,0 (290)			- (105.7)	88,0 (290)	- (46.4)	23,1 (50.3)	23,4 (51.1)	24,7 (53.8)
	96,0 (320)				96,0 (320)	- (30.8)	16,6 (34.2)	17,4 (36.0)	18,7 (38.9)
	106,0 (350)				106,0 (350)		- (21.0)	- (23.1)	- (25.7)
	112,0 (370)				112,0 (370)				8,7 -
Luffing jib length 94,5 m (310 ft)	Radius 38,0 (130)				Radius 38,0 (130)				
	46,0 (150)				46,0 (150)				
	50,0 (170)				50,0 (170)	64,8 (138.4)	- (128.4)		
	60,0 (200)				60,0 (200)	51,9 (111.8)	53,1 (114.7)	45,8 (101.0)	37,0 (81.2)
	70,0 (230)				70,0 (230)	39,5 (86.9)	41,4 (91.1)	39,3 (86.5)	34,0 (74.9)
	78,0 (260)				78,0 (260)	30,7 (64.9)	32,6 (69.3)	32,0 (68.1)	30,9 (67.2)
	88,0 (290)				88,0 (290)	- (46.4)	23,1 (50.3)	23,4 (51.1)	24,7 (53.8)
	96,0 (320)				96,0 (320)	- (30.8)	16,6 (34.2)	17,4 (36.0)	18,7 (38.9)
	106,0 (350)				106,0 (350)		- (21.0)	- (23.1)	- (25.7)
	112,0 (370)				112,0 (370)				8,7 -

Meets ANSI B30.5 Requirements - Capacities do not exceed 75% of static tipping load.
 NOTICE: This capacity chart is for reference only and must not be used for lifting purposes.

Luffing jib load charts

MAX-ER®

Liftcrane luffing jib capacities - 18000 MAX-ER*

Luffing jib No. 79A on boom No. 55 or No. 55A with 42,7 m (140 ft) mast No. 56

223 170 kg (492,000 lb) Counterweight 145 150 kg (320,000 lb) Carbody counterweight

390 090 kg (860,000 lb) Wheeled counterweight or hanging counterweight

360° Rating kg (lb) x 1 000

70° Boom angle

Boom m (ft)	48,8 (160)	61,0 (200)	79,2 (260)	91,4 (300)	Boom m (ft)	48,8 (160)	61,0 (200)	79,2 (260)	91,4 (300)
Radius 30,0 (100)					Radius 30,0 (100)				
Luffing jib length 27,4 m (90 ft)					Luffing jib length 45,7 m (150 ft)				
36,0 (120)	- (503.0)				36,0 (120)				
38,0 (130)	219,1 (462.0)	- (447.0)			38,0 (130)				
42,0 (140)	196,7 (426.4)	190,4 (412.8)			42,0 (140)				
44,0 (150)	186,1 (367.7)	181,1 (382.9)	- (360.7)		44,0 (150)	- (389.0)			
50,0 (170)		157,0 (-)	148,2 (314.0)	- (299.4)	50,0 (170)	150,7 (310.8)	- (326.5)		
56,0 (190)			130,1 (-)	124,3 (263.7)	56,0 (190)	122,0 (252.9)	135,7 (288.1)	- (269.1)	
64,0 (210)					64,0 (210)	94,4 (208.2)	108,1 (238.3)	108,7 (239.7)	99,3 (219.0)
66,0 (220)					66,0 (220)		101,6 (217.2)	104,8 (226.8)	98,7 (214.8)
70,0 (230)					70,0 (230)			97,6 (215.0)	92,5 (203.6)

Boom m (ft)	48,8 (160)	61,0 (200)	79,2 (260)	91,4 (300)	Boom m (ft)	48,8 (160)	61,0 (200)	79,2 (260)	91,4 (300)
Radius 48,0 (160)					Radius 48,0 (160)				
Luffing jib length 70,1 m (230 ft)					Luffing jib length 94,5 m (310 ft)				
52,0 (180)					52,0 (180)				
60,0 (200)	100,3 (217.7)				60,0 (200)				
70,0 (230)	77,6 (170.8)	87,3 (192.0)	73,8 (162.8)		70,0 (230)				
78,0 (260)	63,0 (134.6)	70,1 (149.7)	73,8 (162.8)	60,3 (133.1)	78,0 (260)	39,6 (84.5)	43,5 (93.0)		
88,0 (290)	47,9 (104.5)	54,4 (118.9)	63,8 (139.4)	58,4 (128.3)	88,0 (290)	29,1 (63.4)	33,1 (72.2)	34,8 (87.1)	34,3 (75.8)
96,0 (320)			52,2 (110.9)	52,7 (114.0)	96,0 (320)	21,8 (45.3)	25,4 (53.1)	28,1 (59.2)	30,6 (64.9)
106,0 (350)					106,0 (350)	- (30.0)	- (36.7)	- (43.4)	- (49.8)
112,0 (370)					112,0 (370)	10,2 (21.6)	12,8 (27.3)	15,8 (33.9)	18,7 (40.1)
128,0 (420)					128,0 (420)				8,8 (19.4)

Meets ANSI B30.5 Requirements - Capacities do not exceed 75% of static tipping load.
 NOTICE: This capacity chart is for reference only and must not be used for lifting purposes.

Manitowoc Crane Care

Crane Care is Manitowoc's comprehensive service and support program. It includes classroom and on-site training, prompt parts availability, expert field service, technical support and documentation.

That's commitment you won't find anywhere else.

That's Crane Care.

Service training

Manitowoc specialists work with you in our training centers and in the field to make sure you know how to get maximum performance, reliability and life from your cranes.

Manitowoc Cranes Technical Training Centers provide valuable multi-level training, which is available for all models and attachments, in the following format:

- **Intro to Canbus and Canbus 1, 2, 3**
- **Intro to EPIC and EPIC 1, 2, 3**
- **Small Crawler 1**
- **Canbus 1 and 2 assembly, operation and maintenance**
- **EPIC 1 and 2 assembly, operation and maintenance**

Refer to www.manitowoc.com for course descriptions.

Parts availability

Genuine Manitowoc replacement parts are accessible through your distributor 24 hours a day, 7 days a week, 365 days a year.

Service interval kits

200 hour kit

1,000 hour kit

2,000 hour kit

Hydraulic test kit

U.S. standard tools kit

Field service

Factory-trained service experts are always ready to help maintain your crane's peak performance.

For a worldwide listing of dealer locations, please consult our website at: www.manitowoc.com

Technical support

Manitowoc's dealer network and factory personnel are available 24 hours a day, 7 days a week, 365 days a year to answer your technical questions and more, with the help of computerized programs that simplify crane selection, lift planning, and ground-bearing calculations.

For a worldwide listing of dealer locations, please consult our website at: www.manitowoc.com

Technical documentation

Manitowoc has the industry's most extensive documentation; available in major languages and formats that include print, videotape, and DVD/CD.

Additional copies available through your Authorized Manitowoc Distributor.

- Crane operator's manual
- Crane parts manual
- Crane capacity manual
- Crane vendor manual
- Crane service manual
- Luffing jib operator's/parts manual
- Capacity chart manual - attachments

CD rom versions of the operator's and parts manuals are shipped with each crane. Also available are the following CDs:

- Crane Care Owner CD –
- Ground Bearing Pressure Estimator CD
- Crane Selection and Planning Software (CompuCRANE®)
- EPIC® Crane Library CD consisting of capacity charts, range diagrams, wire rope specifications, travel specifications, crane weights, counterweight arrangements, luffing jib raising procedures, operating range diagrams, drum and lagging charts, boom rigging drawings, jib rigging drawings, outline dimensions and wind condition charts.

Available from your Authorized Manitowoc Cranes Distributor, these videos are available in NTSC, PAL, SECAM, and DVD formats.

- Your Capacity Chart Video
- Respect the Limits Video
- Crane Safety Video
- Boom Inspection/Repair Video

Crane Care Package

Manitowoc has assembled all of the available literature, CD's and videos listed above plus several Manitowoc premiums into one complete Crane Care Package.

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