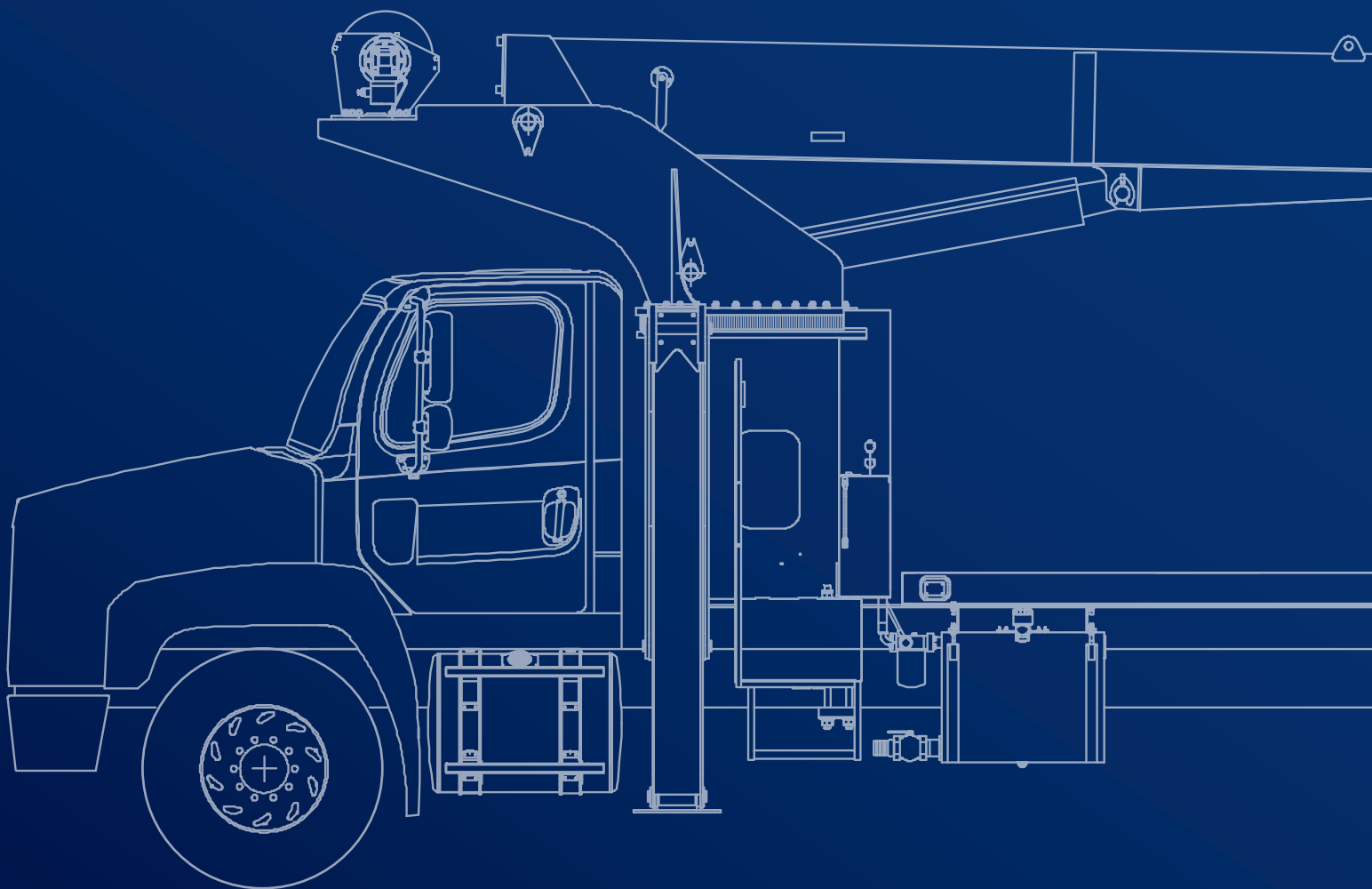


CM 300.1

SERIES PRODUCT GUIDE

30 TON (27 MT) TELESCOPIC CRANE

Manitex





November 2025. Unless otherwise specified, all information in this brochure refers to a standard crane equipment, and it is intended as general information only. No liability is assumed. Errors reserved. Product specifications and prices are subject to changes without notice. The photographs and/or drawings in this brochure are for illustrative purposes only. For correct and safe crane operation, the original operating manual and lifting capacity charts are essential. Failure to follow the corresponding Operator's Manual when using our equipment or failure to otherwise act responsibly may result in property damage, serious injury or death. The sole warranty applicable with respect to our equipment is the standard warranty as per general terms and conditions of sales and service (ask your local Tadano dealer for details), and Tadano makes no other warranty, express or implied. All rights reserved. Any use of the trademarks, logos, brand names and model names used herein is prohibited.

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Key

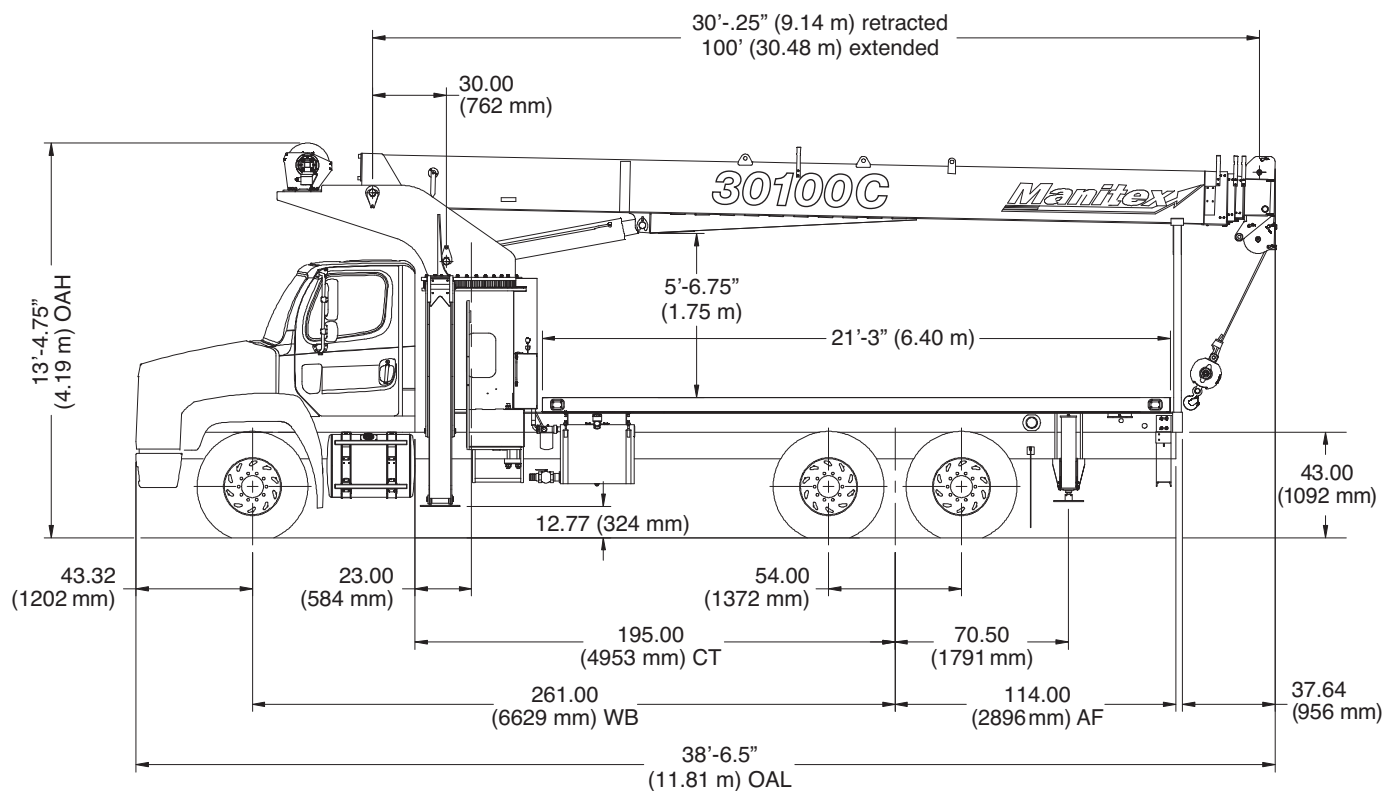
	Operator aids		Radio remote control
	Cab		Hook block
	Heating / Air conditioning		Distance from hook to head sheave pin
	Controls		Hook and ball
	Hoist speed		Hydraulics
	1 - Main hoist 2 - Auxiliary winch 3 - Recovery winch		Boom elevation angle
	Rope length		Max. boom length with extension
	Rope – Standard / optional		Boom with extension retracted
	Rope diameter		Boom angle
	Permissible line pull		Telescoping mode
	Maximum line pull		Working radius
	Slewing / Allowable slewing range		Boom length
	Slewing gears		Hydraulic actuated boom
	Slewing brake		Full power mechanical synchronized
	Outriggers / Lifting on outriggers		Boom head / Hook block dimension
	A-Frame outriggers		Main boom with auxiliary head
	2-person man basket		Tip height
	Counterweight		

CM 300.1



30102C / 30100C Chassis Data

30100C – Dimensions



Chassis Data

Model	30102C / 30100C
Wheelbase (WB)	261 in. (6,629 mm)
Cab to tandem (CT)	195 in. (4,953 mm)
After frame (AF)	114 in. (2,896 mm)
Nominal frame width	34 in. (864 mm)
Frame section modulus at 180° / 360° area of operation*	30 in ³ (491.6 cm ³) 110,000 psi · 758,423 kPa

* Frame selection modulus at 360° area of operation requires front bumper stabilizer.

Truck Axle Weight

Front axle gross weight rating	18,000 lbs (8,165 kg)
Rear axle gross weight rating	34,000 lbs (15,422 kg)
Min. truck axle weight – Front**	8,400 lbs (3,810 kg)
Min. truck axle weight – Rear**	8,400 lbs (3,810 kg)

** Minimum chassis weight is required to meet 85% stability requirements.
Chassis data is general – not for engineering. Some dimensions depend on truck selection.

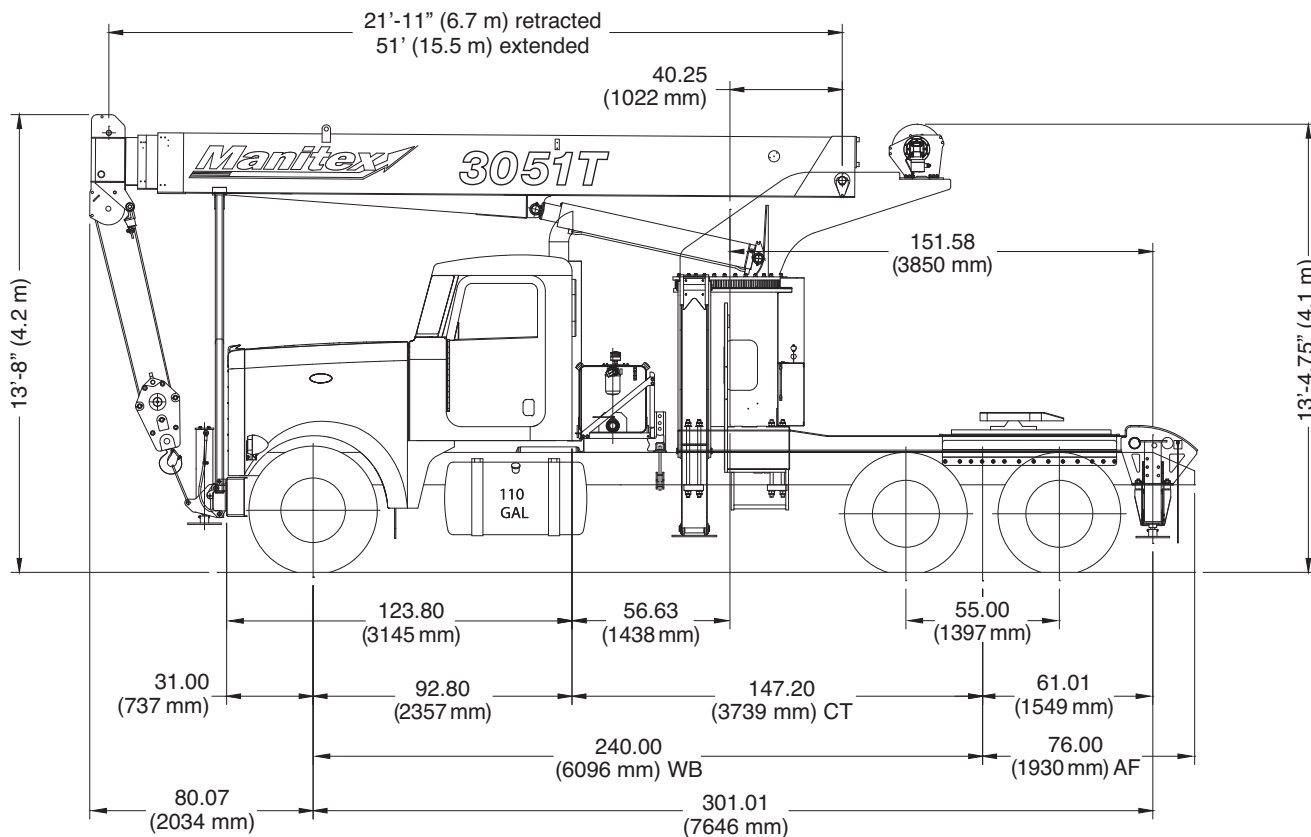
Crane Weight

Model	30102C / 30100C
Total crane 30102C A-Frame	22,212 lbs (10,075 kg)
Total crane 30102C Out & Down	23,040 lbs (10,451 kg)
Total crane 30100C A-Frame	22,485 lbs (10,199 kg)
Total crane 30100C Out & Down	23,047 lbs (10,454 kg)
Flatbed 22 ft (6.7 m)	2,552 lbs (1,144 kg)
Fixed jib 26 ft (7.9 m)	832 lbs (377 kg)
Telescoping jib 26 ft (7.92 m) to 46 ft (14.0 m)	1,220 lbs (553 kg)

Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

3051T Chassis Data

3051T – Dimensions



Chassis Data

Model	3051T
Wheelbase (WB)	240 in. (6,096 mm)
Cab to tandem (CT)	147.2 in. (3,739 mm)
After frame (AF)	76 in. (1,930 mm)
Nominal frame width	34 in. (864 mm)
Frame section modulus at 180° / 360° area of operation*	30 in ³ (491.6 cm ³) 110,000 psi · 758,423 kPa

* Frame selection modulus at 360° area of operation requires front bumper stabilizer.

Truck Axle Weight

Front axle gross weight rating	18,000 lbs (8,165 kg)
Rear axle gross weight rating	34,000 lbs (15,422 kg)
Min. truck axle weight – Front**	8,400 lbs (3,810 kg)
Min. truck axle weight – Rear**	8,400 lbs (3,810 kg)

** Minimum chassis weight is required to meet 85% stability requirements.
Chassis data is general – not for engineering. Some dimensions depend on truck selection.

Crane Weight

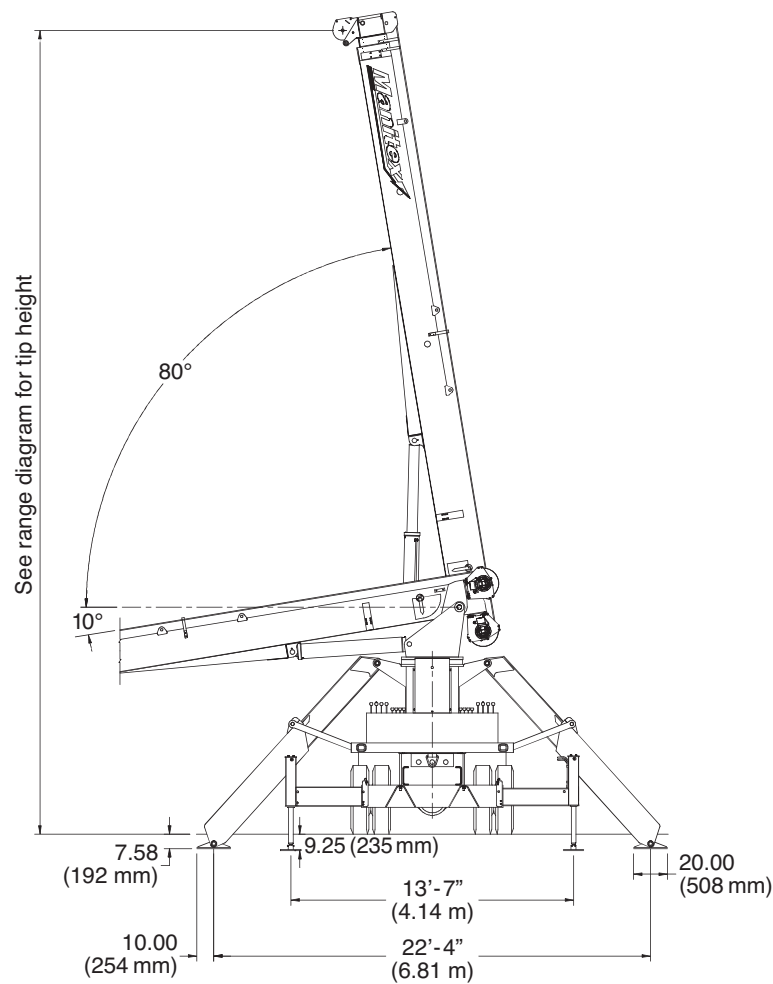
Model	3051T
Total crane (standard)	16,129 lbs (7,316 kg)

Notes:
Additional axles required for federal bridge legal configuration – consult Manitex.
Manitex highly recommends addition of a front stabilizer and may be required on some installations – consult Manitex.

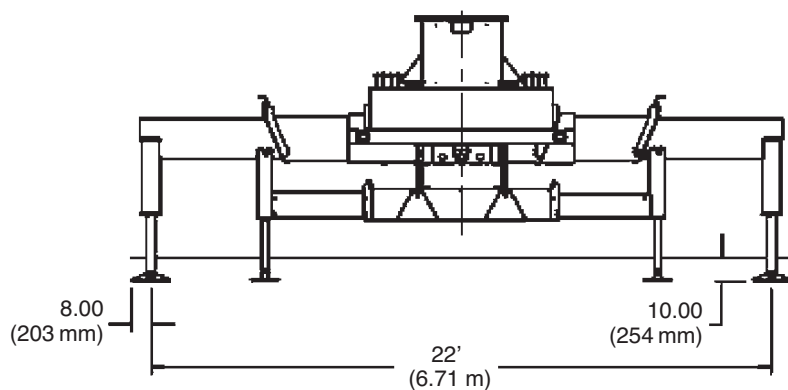
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Outrigger Extension

Standard Outrigger Stabilizer Combination – Fully Extended



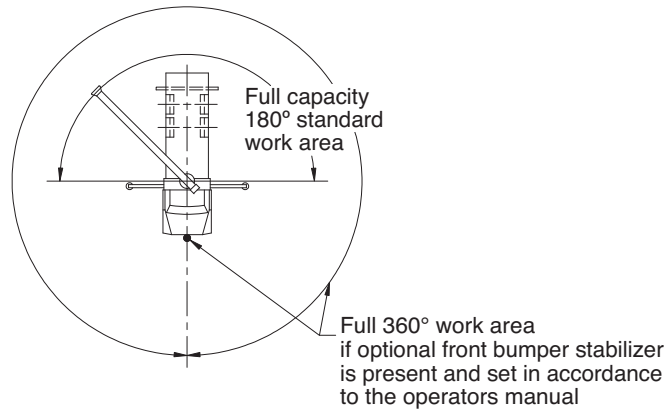
Out and Down Outrigger Stabilizer Combination – Fully Extended (optional)



Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

Area of Operation · Reeving Diagram

Area of Operation



Deductions from rated loads for load handling devices supplied by Manitex

Auxiliary block	50 lbs (22.7 kg)
Auxiliary sheave	50 lbs (22.7 kg)
Overhaul ball	See overhaul ball mfgr. nameplate
Load blocks	See block mfgr. nameplate
Hose reel	140 lbs (63.5 kg)
Swing-around jib	See load chart

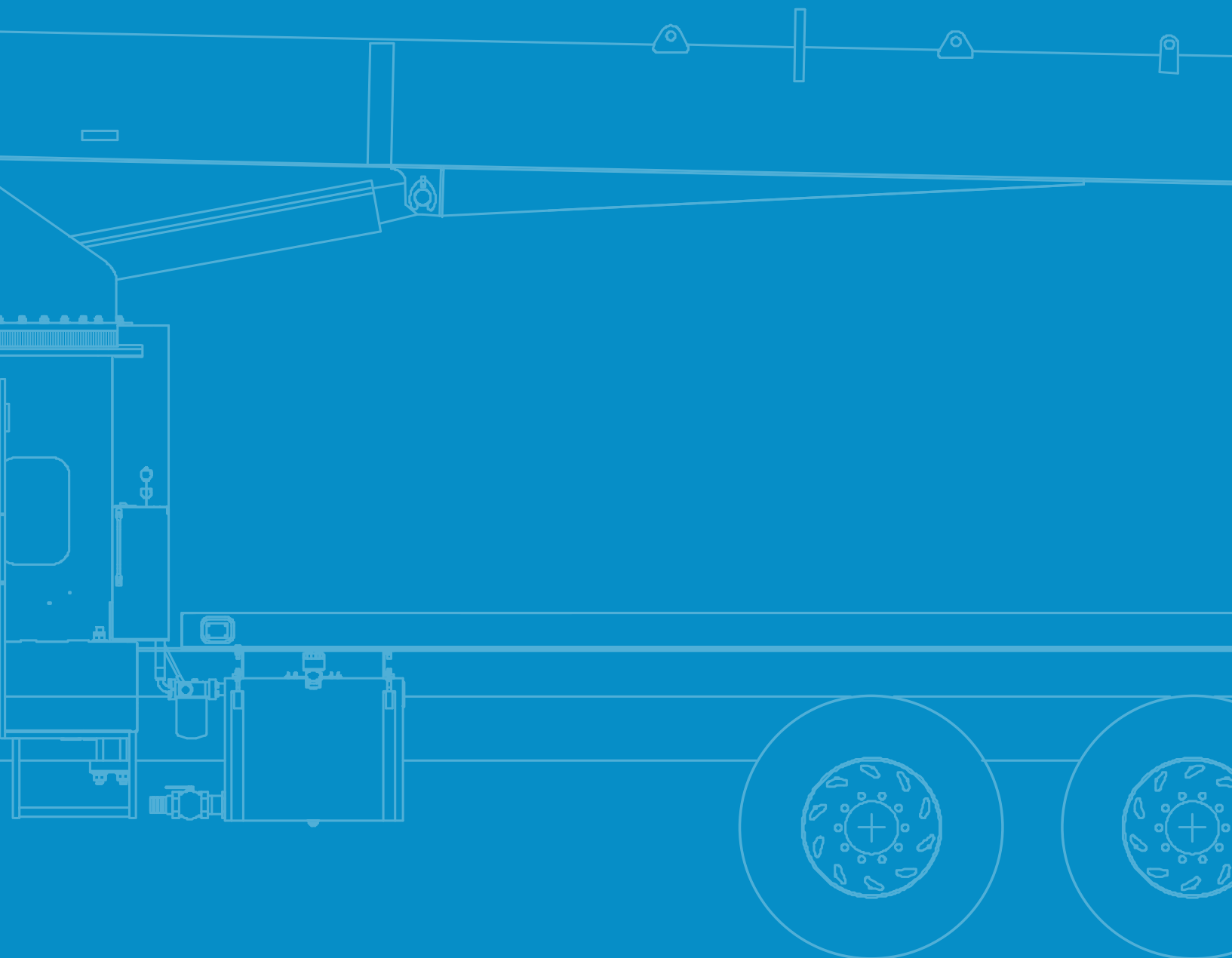
WARNING: Lifting off the main boom point while the jib is erected is not intended nor approved.

Reeving Diagram

Allowable Line Pull							WARNING Anti-Two-Block System must be in good operating condition before operating crane. Refer to the owner's manual. Keep at least 3 wraps of load line on the drum at all times.
1 part line	2 part line	3 part line	4 part line	5 part line	6 part line	7 part line	
8,500 lbs	17,000 lbs	25,500 lbs	34,000 lbs	42,500 lbs	51,000 lbs	60,000 lbs	9/16" 6 x 25 IWRC (3.5 : 1 SF) 29,750 lbs min. breaking strength 9/16" rot resistant (5.0 : 1 SF) 38,500 lbs min. breaking strength
7,700 lbs	15,400 lbs	23,100 lbs	30,800 lbs	38,500 lbs	46,200 lbs	53,900 lbs	

Notes

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Main Boom Jib

A-Frame Outriggers

[illegible]

Deductions from main boom capacities for stowed jibs

SFJ	500 lbs	360 lbs	290 lbs	250 lbs	210 lbs	190 lbs	170 lbs	150 lbs
STJ	740 lbs	540 lbs	440 lbs	370 lbs	320 lbs	280 lbs	250 lbs	220 lbs

SFJ = Stowed fixed jib · **STJ** = Stowed telescopic jib

NOTES:

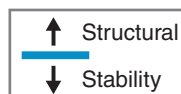
All loads rated at 360° pick

Loads based on crane on fully extended outriggers and stabilizers

All "on outriggers" loads are based on 85% tipping

Loads above heavy line are based on structural rating

Loads below heavy line are based on stability rating

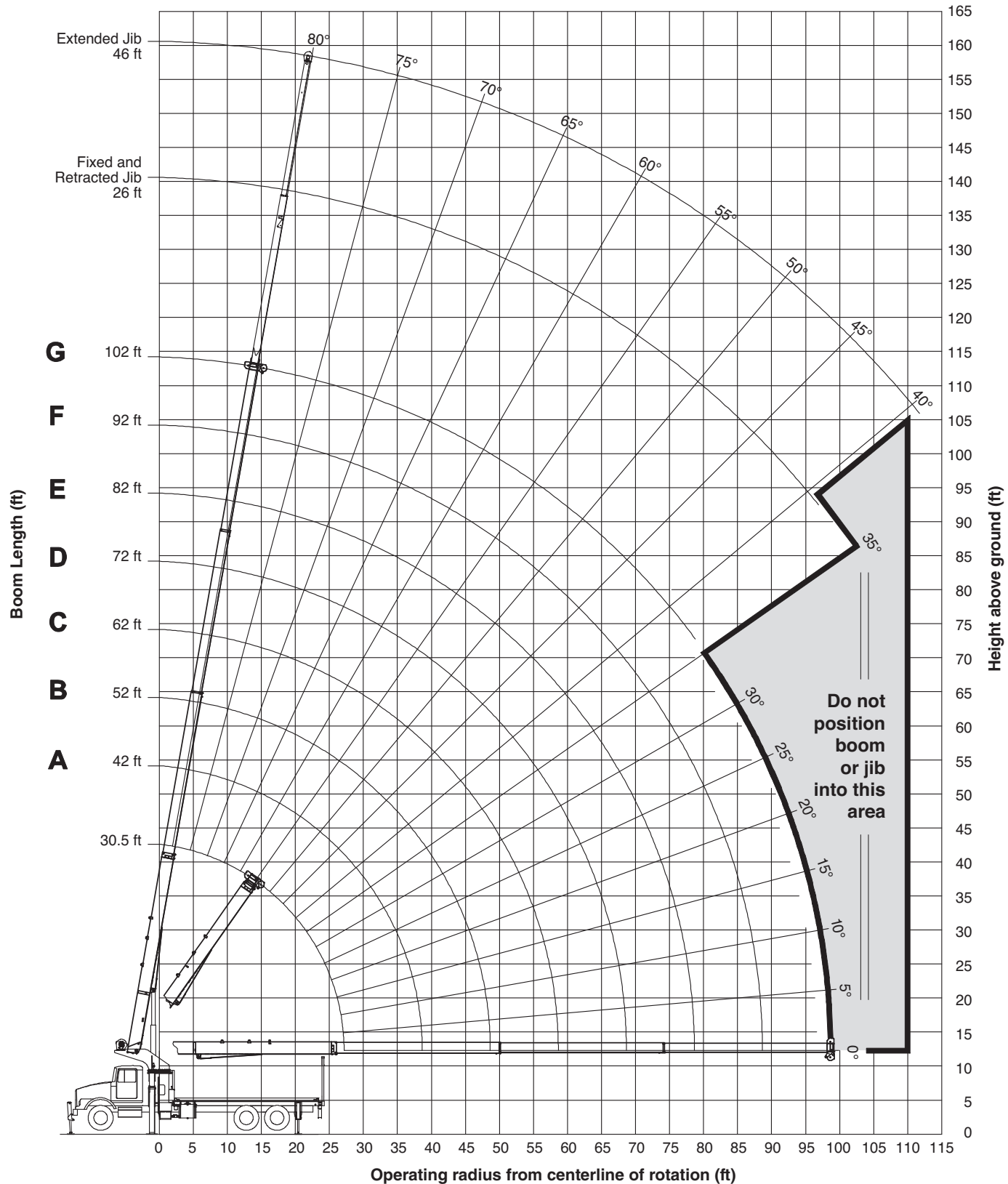


Jib 26 ft – 46 ft							372° non-continuous							22.3 ft (6.8 m)	
Fixed Jib			Telescopic Jib				Fixed Jib			Telescopic Jib					
26 ft			26 ft		46 ft		26 ft			26 ft		46 ft			
		Load capacity		Load capacity		Load capacity			Load capacity		Load capacity		Load capacity		
ft	°	lbs	°	lbs	°	lbs	ft	°	lbs	°	lbs	°	lbs		
25	80	5,300	80	5,100	-	-	70	59	2,570	59	2,220	65	2,440		
30	78	5,300	78	5,100	80	3,050	75	56	2,280	56	1,930	63	2,060		
35	76	4,990	76	4,730	78	3,050	80	53	1,960	53	1,660	60	1,850		
40	74	4,580	74	4,310	77	3,050	85	50	1,620	50	1,320	58	1,630		
45	72	4,200	72	3,920	75	3,050	90	47	1,320	47	1,020	55	1,430		
50	69	3,850	69	3,560	73	3,050	95	44	1,060	44	760	53	1,240		
55	67	3,530	67	3,240	71	2,890	100	40	820	40	520	50	1,000		
60	64	3,240	64	2,940	69	2,660	105	36	610	-	-	47	790		
65	62	2,920	62	2,560	67	2,440	110	-	-	-	-	44	600		

Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

30102C Boom Diagram

Main Boom Jib



Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

Main Boom Jib

A-Frame Outriggers

[illegible]

Deductions from main boom capacities for stowed jibs

SFJ	490 lbs	370 lbs	300 lbs	250 lbs	210 lbs	190 lbs	170 lbs	150 lbs
STJ	730 lbs	550 lbs	440 lbs	370 lbs	320 lbs	280 lbs	250 lbs	220 lbs

SFJ = Stowed fixed jib · **STJ** = Stowed telescopic jib

NOTES:

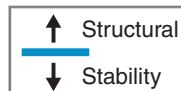
All loads rated at 360° pick

Loads based on crane on fully extended outriggers and stabilizers

All "on outriggers" loads are based on 85% tipping

Loads above heavy line are based on structural rating

Loads below heavy line are based on stability rating

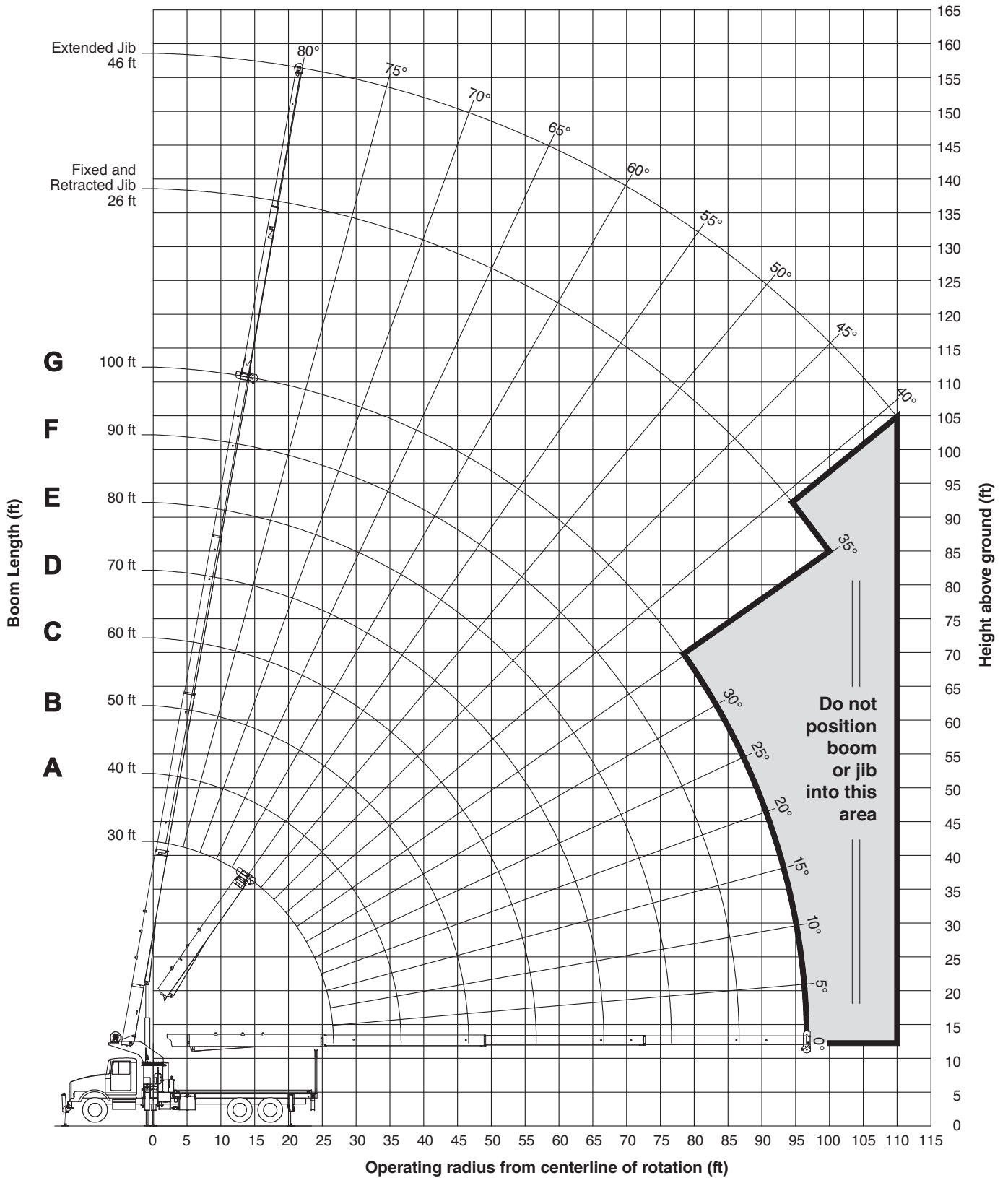


Jib 26 ft – 46 ft							 372° non-continuous			 22.3 ft (6.8 m)			
Fixed Jib			Telescopic Jib				Fixed Jib			Telescopic Jib			
26 ft			26 ft		46 ft		26 ft			26 ft		46 ft	
		Load capacity		Load capacity		Load capacity			Load capacity		Load capacity		Load capacity
ft	°	lbs	°	lbs	°	lbs	ft	°	lbs	°	lbs	°	lbs
25	80	5,300	80	5,100	-	-	70	58.5	2,610	58.5	2,270	64.5	2,260
30	78	5,300	78	5,100	79.5	3,050	75	55.5	2,320	55.5	1,970	62.5	2,080
35	76	5,000	76	4,800	78	3,050	80	53	2,010	53	1,710	60	1,890
40	73.5	4,650	73.5	4,380	76.5	3,050	85	49.5	1,670	49.5	1,380	57.5	1,670
45	71.5	4,250	71.5	3,980	74.5	3,050	90	46.5	1,370	46.5	1,080	55	1,470
50	69	3,890	69	3,610	73	3,050	95	43	1,110	43	810	52.5	1,290
55	66.5	3,560	66.5	3,280	71	2,930	100	39	880	39	580	49.5	1,050
60	64	3,270	64	2,980	69	2,690	105	-	-	-	-	46.5	840
65	61.5	2,950	61.5	2,600	66.5	2,470	110	-	-	-	-	43.5	650

Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

30100C Boom Diagram

Main Boom Jib



Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

3051T Load Chart

Main Boom

21.27 ft – 51 ft – 3 section						372° non-continuous						22.3 ft (6.8 m)					
	 21.27 ft		 26 ft (A)		 31 ft (B)		 36 ft (C)		 41 ft (D)		 46 ft (E)		 51 ft (F)				
		Load capacity		Load capacity		Load capacity		Load capacity		Load capacity		Load capacity		Load capacity			
ft	°	lbs	°	lbs	°	lbs	°	lbs	°	lbs	°	lbs	°	lbs	ft		
5		70 60,000	-	-	-	-	-	-	-	-	-	-	-	-	5		
8		60.5 43,700	66.5 41,700	71 40,100	74 38,900	76.5 38,000									8		
10		54 38,200	61.5 36,400	67 35,200	70.5 34,100	73.5 33,200	75.5 32,200	77 28,520							10		
12		47 34,300	56.5 32,700	62.5 31,200	67 30,100	70.5 29,250	73 28,540	75 25,800							12		
14		38.5 30,700	50.5 29,440	58.5 28,160	63.5 27,110	67.5 26,640	70.5 25,940	72.5 23,780							14		
16		27.5 27,160	44.5 26,760	53.5 25,990	60 25,010	64 24,190	67.5 23,520	70.5 21,820							16		
18		- -	37.5 24,640	49 23,840	56 22,960	61 22,200	65 21,550	68 20,190							18		
20		- -	28.5 22,260	43.5 21,980	52 21,230	57.5 20,530	62 19,910	65.5 18,520							20		
25		- -	- -	26.5 17,760	40.5 17,770	48.5 17,570	54.5 17,070	58.5 15,410							25		
30		- -	- -	- -	24.5 13,170	38 13,260	46 13,310	51.5 12,950							30		
35		- -	- -	- -	- -	23 10,240	36 10,310	44 10,350							35		
40		- -	- -	- -	- -	- -	22 8,270	34.5 8,320							40		
45		- -	- -	- -	- -	- -	- -	21 6,860							45		
50		- -	- -	- -	- -	- -	- -	- -							50		

NOTES:

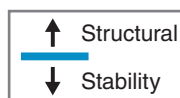
All loads rated at 360° pick

Loads based on crane on fully extended outriggers and stabilizers

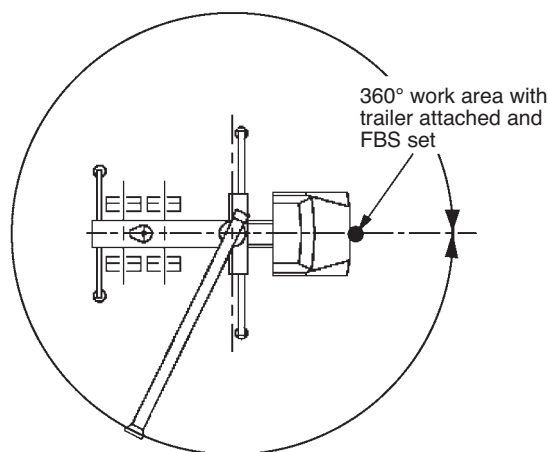
All "on outriggers" loads are based on 85% tipping

Loads above heavy line are based on structural rating

Loads below heavy line are based on stability rating

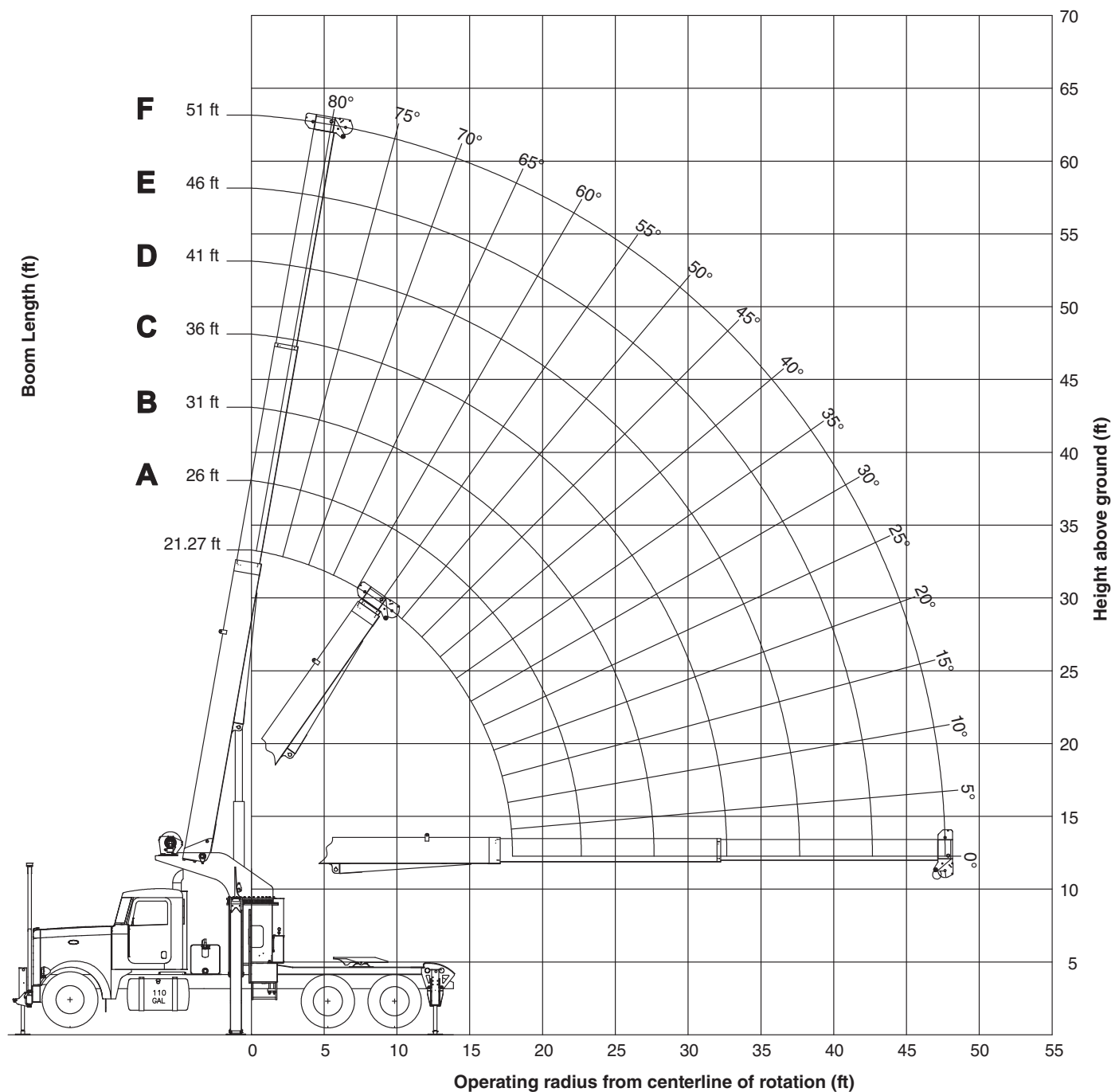


Area of Operation



3051T Boom Diagram

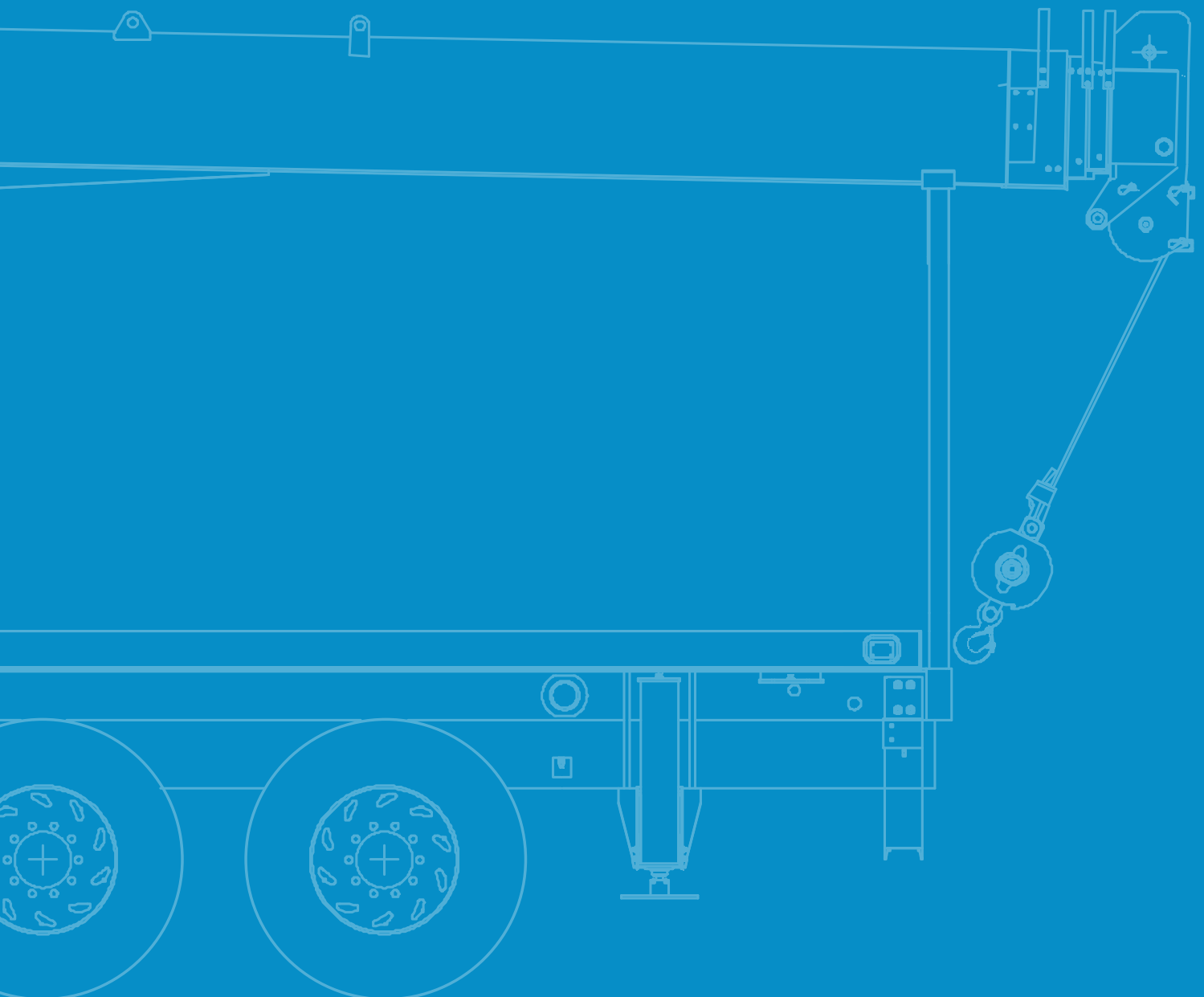
Main Boom



Data published herein is intended as a guide only. Crane operation is subject to machine specific load charts and information.

Notes

CM 300.1



Technical Description

Boom



Boom length: Proportional boom

- 4-section 102 ft (31.1 m)
- 4-section 100 ft (30.4 m)
- 3-section 51 ft (15.5 m)

3-sheave quick reeve boom point

Self lubricating slider pads



30102C: • Boom length 102 ft (31.1 m)

• Boom max. tip height 112 ft (34.1 m)

30100C: • Boom length 100 ft (30.4 m)

• Boom max. tip height 110.6 ft (33.7 m)

3051T: • Boom length 51 ft (15.5 m)

• Boom max. tip height 62.3 ft (19.0 m)



Boom angle (min./max.):

-10° / 80.6°

Rotation



Ball-bearing swing circle with external gear

Double-reduction planetary gearbox driven by hydraulic motor



Slewing brake:

Spring-applied pressure released parking brake



Slewing speed: 0 - 1.5 rpm

Boom rotation: 372° non-continuous

Outriggers



Outriggers: A-frame style

FBS – Front Bumper Stabilizer (optional)

A-frame fully extended: 22.3 ft (6.8 m)

Stabilizers fully extended: 14.6 ft (4.4 m)

Hoist, Rope and Hook



Maximum theoretical line speed:

300 fpm (91.4 mpm)



Bottom layer permissible line pull:

8,500 lbs (3,855.5 kg)



Main winch cable diameter: 0.5625 in. (14.3 mm)

rotation resistant



Line length: 335 ft (102.1 m)



Main winch: Bent axis 2-speed hydraulic motor (activated electrically)



Hook and ball:

7 t (6.4 mt) capacity hook with heavy-duty swivel and weight is provided for single line operation

Technical Description

Hydraulics



8-Bolt direct mounted PTO and SAE B input and SAE BB output
3-section gear pump, SAE BB input (standard)
Hydraulic reservoir capacity:
70 gallons (284 l)
Pump sections @ 2000 rpm with 100 psi

- Shaft end pump: 32.4 gpm (123 lpm)
- Center pump: 20.6 gpm (78 lpm)
- Cover end pump: 10 gpm (38 lpm)

Operator Aids



Externally wired LMI with crane function cut-offs for overload protection
Text display
Event recorder
Externally wired anti-two block system

Control System



Dual operating stations are equipped with four single-lever crane controls arranged in accordance with ANSI B30.5 standards.
Fully proportional control valves
Each station includes:

- Individual control levers for each outrigger and stabilizer
- Engine start and stop
- Electronic foot throttle
- Signal horn
- Boom angle indicator
- Beverage holder
- Load chart with range diagram and mount for removable LMI display

Electrical System

State-of-the-art, weather-resistant components throughout
Hermetically sealed enclosure includes power in relays and circuit status LEDs

Mounting System

Pedestal sub-frame and stabilizers are mounted to chassis by threaded rods and clamp plates
Sub-frame:
Torsion resistant, rigid 4-plate design mounted under crane full length of truck frame
Rear under-ride protection:
Standard on factory mounted cranes
Boom rest:
Heavy-duty fabrication, easily removed

Technical Description – Options

Outriggers



- Outriggers: Out and down style
- Fully extended: 22 ft (6.7 m)
- Stabilizer extended:
- Fully extended: 14.6 ft (4.4 m)

Jib

- 30102C / 30100C:
- 1-section fixed jib: 26 ft (7.9 m)
 - 2-section telescopic jib: 26 ft (7.9 m) - 46 ft (14.0 m)



- 30102C:
- Max. tip height with extension: 157 ft (47.9 m)
- 30100C:
- Max. tip height with extension: 155 ft (47.2 m)



- 30102C:
- Max. tip height with extension retracted: 137 ft (41.8 m)
- 30100C:
- Max. tip height with extension retracted: 135 ft (41.1 m)

Hoist, Rope and Hook



0.625 in. (15.9 mm) diameter 6 x 25 EIPS IWRC wire rope

Hydraulics



3-section gear pump, SAE C input
FBS – Front Bumper Stabilizer
Hose reel – Boom mounted
Hydraulic oil cooler

Technical Description – Options

2-Person Basket



- 2-person man basket – Aluminum or steel – consult Manitex
- Non-rotating (600 lbs capacity) – Steel
 - Rotating (1,200 lbs capacity) – Aluminum – Main boom only

Radio Remote



- 4-function radio remote crane control system
- 900 Mhz
 - 433 Mhz

Tool Boxes and Bulkhead

Tool Boxes

- 24 in. L x 18 in. W x 18 in. H (610 mm L x 457 mm W x 457 mm H) – Steel
- 48 in. L x 24 in. W x 24 in. H (1,219 mm L x 610 mm W x 610 mm H) – Aluminium

Bulkhead:

- 24 in. (610 mm)

Flatbeds

- 21 ft (6.4 m) Wood bed x 96 in. (2.44 m)
- 21 ft (6.4 m) Heavy hauler steel bed x 96 in. (2.44 m)

www.tadano.com
www.manitex.com

Tadano Ltd.

Kanda Square 18th Floor, 2-2-1 Kanda-Nishikicho, Chiyoda-ku, Tokyo 101-0054, Japan
Phone: +81-3-6811-7309 (International Division)

Manitex Inc.

3000 South Austin Avenue #7544, Georgetown, TX 78626, USA
Phone: +1 (803) 526-9672



Reaching new heights

