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Manitex



CM300.1

30-ton (27 mt) TELESCOPIC CRANE
CM300.1 SERIES PRODUCT GUIDE



AVAILABLE AT:

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GIUFFRE BROS CRANES INC.

6635 SOUTH 13TH ST. - MILWAUKEE, WI 53221
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CM300.1 SERIES TELESCOPIC CRANE

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KEY

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

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CM300.1 SERIES TELESCOPIC CRANE



THE CM300.1 SERIES TELESCOPIC CRANE

Maximize use and value

The CM300.1 series strikes the perfect balance between the three things customers tell us they care about most: features, cost and ease of use.

The CM300.1 offers:

- A Greer Insight™ load moment indicator, the industry's only monitoring display that offers the feature-rich capabilities and high-resolution VGA graphics to help operators work safer and smarter
- Self-lubricating boom slider pads, to minimize maintenance costs
- A compact size; properly equipped, the unit is just 40 ft. long

Other features include:

- 30-ton capacity @ 5 ft. radius
- 51 ft. 3-section tractor mount
- 100 ft. 4-section proportional boom
- 112 ft. boom max. tip height
- Inverted "T" cross-section boom design
- Optional fixed & telescopic jib
- A-frame front outriggers
- Out-and-down stabilizers

USER-FRIENDLY CONTROLS

Dual operator stations are equipped with engine start/stop, foot throttle, signal horn, boom angle indicator, load chart and range diagram.



OUTRIGGER DEPLOYMENT

Equipped with double-acting hydraulic cylinders, large pivoting pads and audible alerts when outriggers/stabilizers are in motion.

TWO-SPEED PLANETARY HOIST

The two-speed planetary hoist lets you change line speed on the fly. Grooved drum and tapered flanges minimize rope stacking to increase productivity and minimize downtime.

INCREASE PROFITABILITY

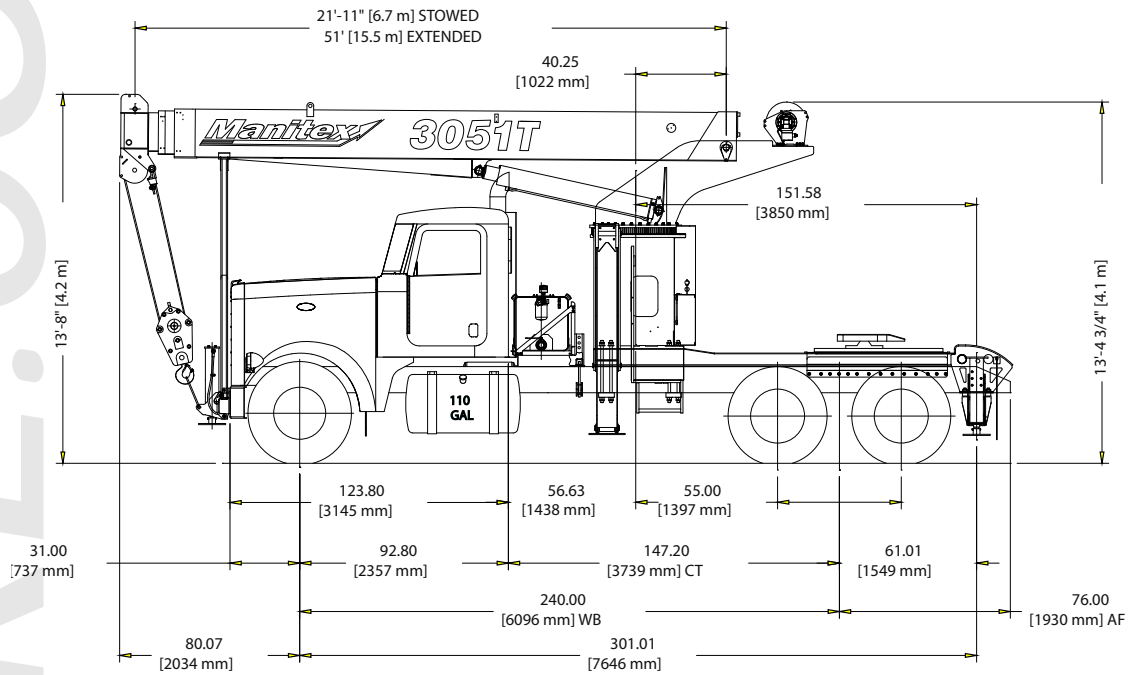
The versatile CM300.1 series, designed to be used with a commercial carrier, helps both owners and operators make the most of their investment.

- Travel to and between jobs at highway speed.
- Ride in comfort with a carrier suspension designed for highway driving.
- Get repairs done quickly and by qualified technicians at commercial truck centers.
- Extend the life of the crane by replacing only the chassis when necessary.



3051T CHASSIS

3051T Dimensions



CRANE WEIGHT

Total crane (standard):	16,129 lbs. (7,316 kg)
-------------------------	------------------------

CHASSIS DATA

Wheel Base (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.

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

TRUCK AXLE WEIGHT

Minimum truck axle weight - Front**	8,400 lbs. (3,810 kg)
Minimum truck axle weight - Back**	8,400 lbs. (3,810 kg)
Front Axle Gross Weight Rating	18,000 lbs. (8,165 kg)
Rear Axle Gross Weight Rating	34,000 lbs. (15,422 kg)

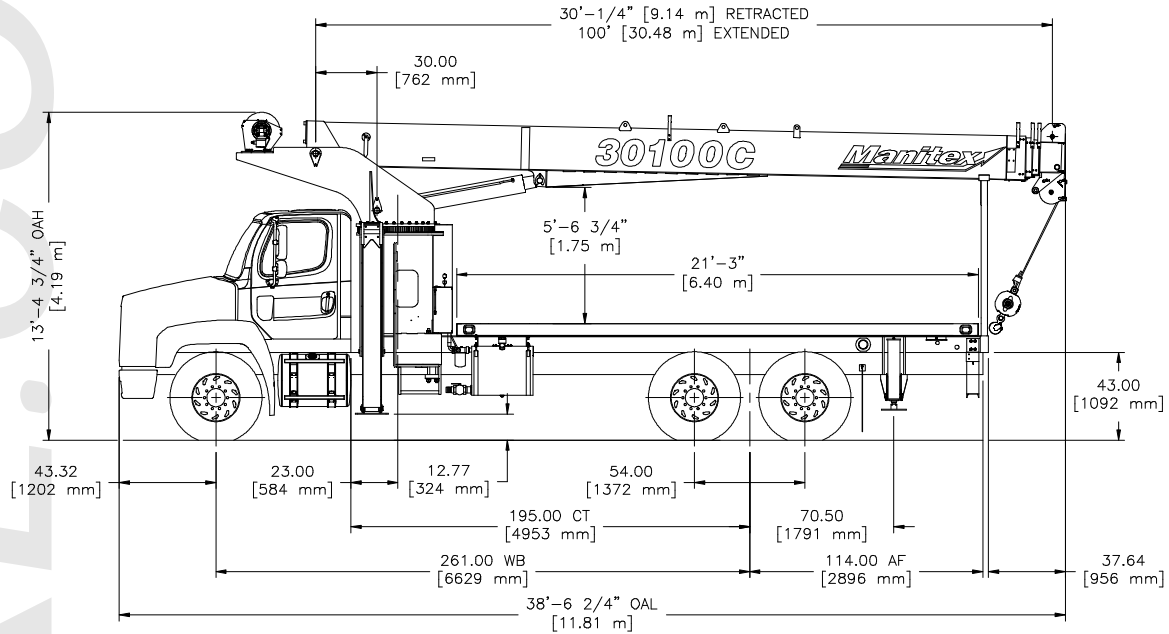
**Minimum chassis weight is required to meet 85% stability requirements. Chassis data is general - not for engineering. Some dimensions depend on truck selection.

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.

CM300.1 SERIES TELESCOPIC CRANE

30100C CHASSIS

30100C Model



CRANE WEIGHTS

Total crane (standard):	22,485 lbs. (10,199 kg)
Total crane: (out-and-down outriggers)	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)

TRUCK AXLE WEIGHT

Minimum truck axle weight - Front**	8,400 lbs. (3,810 kg)
Minimum truck axle weight - Rear**	8,400 lbs. (3,810 kg)
Front Axle Gross Weight Rating	18,000 lbs. (8,165 kg)
Rear Axle Gross Weight Rating	34,000 lbs. (15,422 kg)

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

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.

CHASSIS DATA

Wheel Base (WB)	261 in. (6,629 mm)
Cab to Tandem (CT)	195 in. (4,877 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.

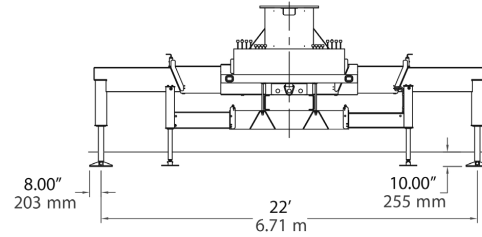
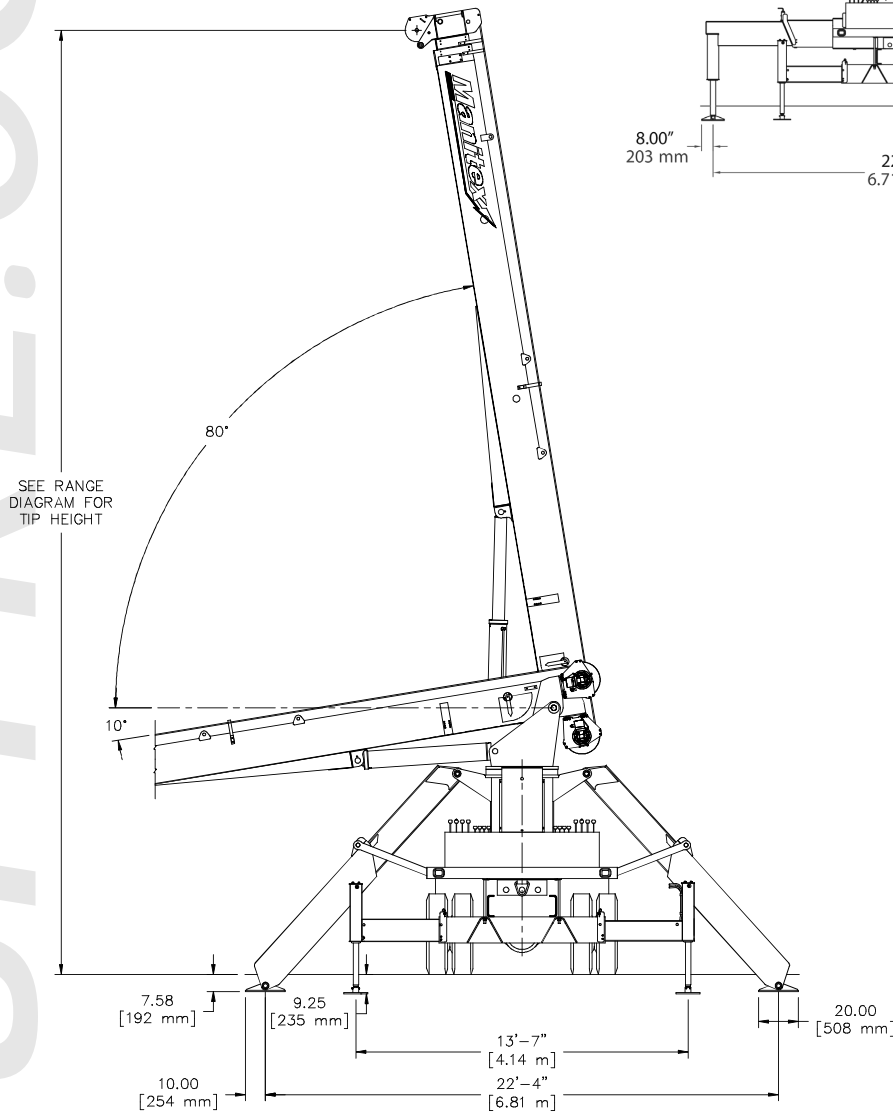
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OUTRIGGER EXTENSION

Standard Outrigger-Stabilizer Combination
Fully Extended - Imperial & Metric Units

Outrigger-Stabilizer Combination
Fully Extended (optional)



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CM300.1 SERIES TELESCOPIC CRANE

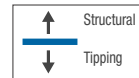
3051T LOAD CHART: Main Boom

Lifting Capacities 3-section Boom 21.27 ft.–51 ft.

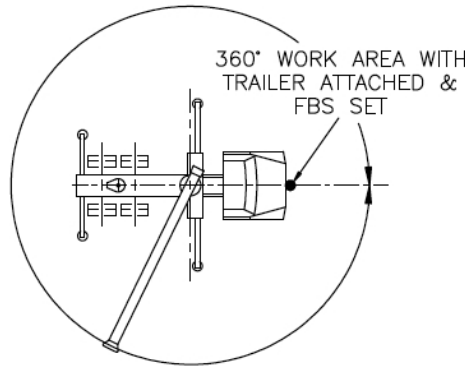
 22.3 ft. (100%)

 372° Non-continuous

MAIN BOOM LMI CODE 1														
21.27 ft.			26 ft. (A)		31 ft. (B)		36 ft. (C)		41 ft. (D)		46 ft. (E)		51 ft. (F)	
	Loaded Boom Angle (deg)	Load Capacity (lbs.)	Loaded Boom Angle (deg)	Load Capacity (lbs.)	Loaded Boom Angle (deg)	Load Capacity (lbs.)	Loaded Boom Angle (deg)	Load Capacity (lbs.)	Loaded Boom Angle (deg)	Load Capacity (lbs.)	Loaded Boom Angle (deg)	Load Capacity (lbs.)	Loaded Boom Angle (deg)	Load Capacity (lbs.)
5	70	60,000												
8	60.5	43,700	66.5	41,700	71	40,100	74	38,900	76.5	38,000				
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
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
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
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
18			37.5	24,640	49	23,840	56	22,960	61	22,200	65	21,550	68	20,190
20			28.5	22,260	43.5	21,980	52	21,230	57.5	20,530	62	19,910	65.5	18,520
25					26.5	17,760	40.5	17,770	48.5	17,570	54.5	17,070	58.5	15,410
30							24.5	13,170	38	13,260	46	13,310	51.5	12,950
35									23	10,240	36	10,310	44	10,350
40											22	8,270	34.5	8,320
45													21	6,860
50														



AREA OF OPERATION



NOTES:

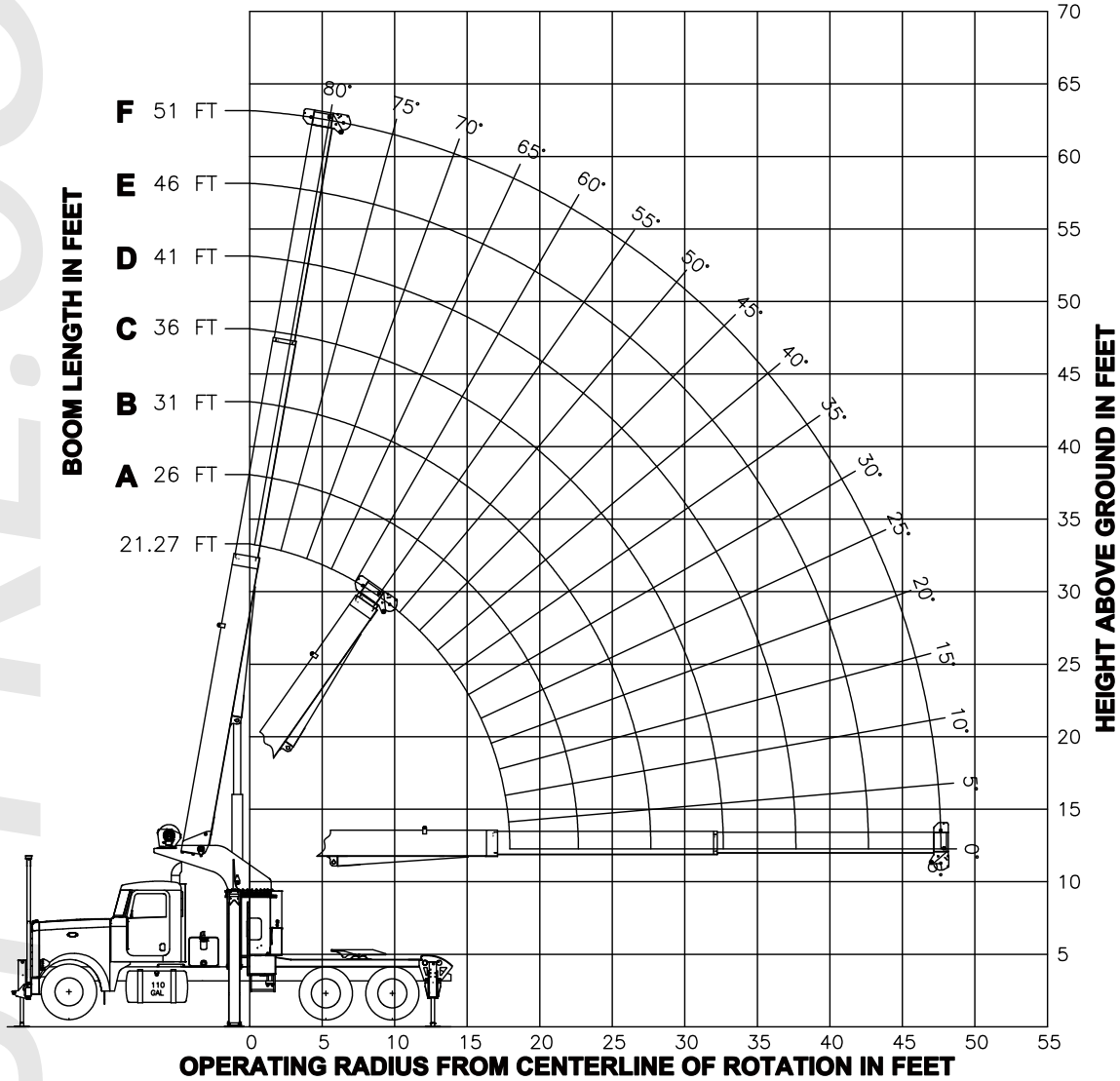
- All loads rated at 360° pick
- Loads based on crane on fully extended outriggers and stabilizers
- All "on outriggers" loads are based on 85% tipping
- Loads above heavy line are based on structural rating
- Loads below heavy line are based on tipping rating

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3051T BOOM DIAGRAM



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CM300.1 SERIES TELESCOPIC CRANE

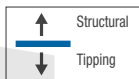
30100C LOAD CHART: Main Boom and Jib

Lifting Capacities 3-section Boom 30 ft. - 100 ft.
Jib 26 ft. - 46 ft.

 22.3 ft. (100%)

 372° Non-continuous

MAIN BOOM LMI CODE ¹																
30 ft.		40 ft. (A)		50 ft. (B)		60 ft. (C)		70 ft. (D)		80 ft. (E)		90 ft. (F)		100 ft. (G)		
	Loaded Boom Angle (deg)	Load Capacity (lbs.)	Loaded Boom Angle (deg)	Load Capacity (lbs.)	Loaded Boom Angle (deg)	Load Capacity (lbs.)	Loaded Boom Angle (deg)	Load Capacity (lbs.)	Loaded Boom Angle (deg)	Load Capacity (lbs.)	Loaded Boom Angle (deg)	Load Capacity (lbs.)	Loaded Boom Angle (deg)	Load Capacity (lbs.)	Loaded Boom Angle (deg)	Load Capacity (lbs.)
5	77	60,000														
8	70.5	38,800														
10	66.5	33,900	73	25,000	77	25,000										
12	62	29,830	70	25,000	74.5	25,000	78	25,000								
15	55	25,700	65.5	23,930	71	22,710	75	21,850	77.5	20,190	79.5	16,860				
20	42	20,350	57	19,060	64.5	17,980	70	17,550	73.5	16,930	76	14,660	78.5	12,470	80	10,500
25	22	15,880	47.5	16,030	58	15,140	64.5	14,410	69	13,840	72.5	12,850	75	11,080	77	9,580
30			36	13,350	50.5	12,830	59	12,200	64.5	11,670	68.5	11,250	72	9,770	74	8,540
35			19	10,360	42.5	10,630	53	10,530	60	10,060	65	9,670	68.5	8,630	71	7,770
40					32.5	8,240	46.5	8,390	55	8,490	60.5	8,560	65.5	7,910	68	6,900
45					17.5	6,520	39	6,690	49.5	6,780	56.5	6,850	61.5	6,900	65	6,000
50							30	5,410	43.5	5,510	51.5	5,580	57.5	5,630	61.5	5,250
55							16	4,410	36.5	4,520	46.5	4,590	53.5	4,640	58	4,630
60									28	3,730	41	3,800	49	3,850	54.5	3,890
65									15.5	3,080	35	3,160	44.5	3,210	50.5	3,250
70											27	2,620	39	2,670	46.5	2,710
75											15	2,160	33.5	2,220	42	2,260
80													26	1,830	37.5	1,870
85													14.5	1,480	32	1,530
90															25	1,230
95															14	960
DEDUCTIONS FROM MAIN BOOM CAPACITIES FOR STOWED JIB - FJ = Fixed Jib TJ = Telescopic Jib																
FJ	490 lbs.		370 lbs.		300 lbs.		250 lbs.		210 lbs.		190 lbs.		170 lbs.		150 lbs.	
TJ	730 lbs.		550 lbs.		440 lbs.		370 lbs.		320 lbs.		280 lbs.		250 lbs.		220 lbs.	



NOTES:

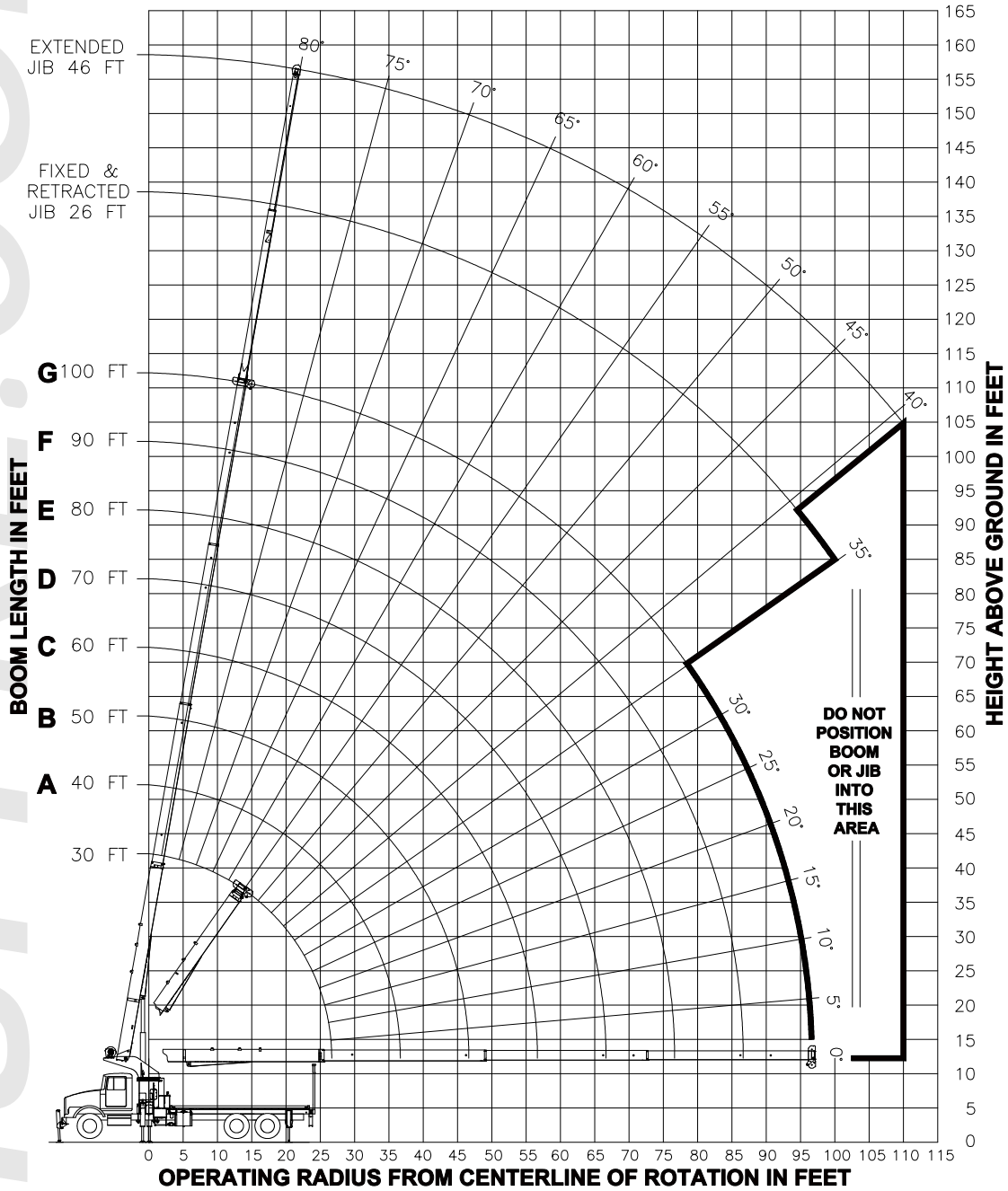
- All loads rated at 360° pick
- Loads based on crane on fully extended outriggers and stabilizers
- All "on outriggers" loads are based on 85% tipping
- Loads above heavy line are based on structural rating
- Loads below heavy line are based on tipping rating

JIB LOAD CAPACITIES						
	26 ft. Fixed Jib		26 ft. Tele. Jib		46 ft. Tele. Jib	
	Loaded Boom Angle (deg)	Load Capacity (lbs.) Code 2	Loaded Boom Angle (deg)	Load Capacity (lbs.) Code 3	Loaded Boom Angle (deg)	Load Capacity (lbs.) Code 4
25	80	5,300	80	5,100		
30	78	5,300	78	5,100	79.5	3,050
35	76	5,000	76	4,800	78	3,050
40	73.5	4,650	73.5	4,380	76.5	3,050
45	71.5	4,250	71.5	3,980	74.5	3,050
50	69	3,890	69	3,610	73	3,050
55	66.5	3,560	66.5	3,280	71	2,930
60	64	3,270	64	2,980	69	2,690
65	61.5	2,950	61.5	2,600	66.5	2,470

JIB LOAD CAPACITIES						
	26 ft. Fixed Jib		26 ft. Tele. Jib		46 ft. Tele. Jib	
	Loaded Boom Angle (deg)	Load Capacity (lbs.) Code 2	Loaded Boom Angle (deg)	Load Capacity (lbs.) Code 3	Loaded Boom Angle (deg)	Load Capacity (lbs.) Code 4
70	58.5	2,610	58.5	2,270	64.5	2,260
75	55.5	2,320	55.5	1,970	62.5	2,080
80	53	2,010	53	1,710	60	1,890
85	49.5	1,670	49.5	1,380	57.5	1,670
90	46.5	1,370	46.5	1,080	55	1,470
95	43	1,110	43	810	52.5	1,290
100	39	880	39	580	49.5	1,050
105					46.5	840
110					43.5	650

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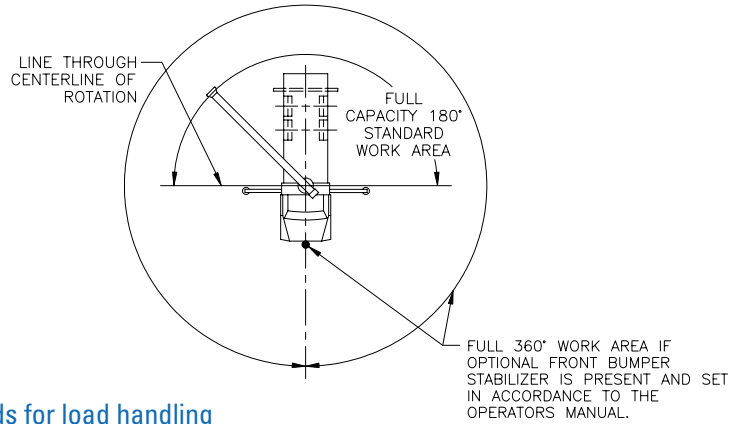
30100C BOOM DIAGRAM



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CM300.1 SERIES TELESCOPIC CRANE

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 mfg. nameplate
Load blocks	See load block mfg. 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
1 PART LINE	2 PART LINE	3 PART LINE	4 PART LINE	5 PART LINE	6 PART LINE	7 PART LINE	
8500 LBS	17000 LBS	25500 LBS	34000 LBS	42500 LBS	51000 LBS	60000 LBS	
7700 LBS	15400 LBS	23100 LBS	30800 LBS	38500 LBS	46200 LBS	53900 LBS	

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.

9/16" 6X25 IWRC (3.5:1 SF) - 29750 LBS MIN BREAKING STRENGTH

9/16" ROT RESISTANT (5.0:1 SF) - 38500 LBS MIN BREAKING STRENGTH

LMI OPERATING CODES

Code	Crane Configuration	Outrigger Configuration	Area of Operation
#1	Main Boom	Fully Extended	Full 360°
#2	Fixed Jib	Fully Extended	Full 360°
#3	Telescopic Jib - Retracted	Fully Extended	Full 360°
#4	Telescopic Jib - Extended	Fully Extended	Full 360°
#5	Personnel lifting platform on main boom	Fully Extended	Full 360°
#6	Personnel lifting platform on fixed jib	Fully Extended	Full 360°
#7	Personnel lifting platform on tele. jib - Retracted	Fully Extended	Full 360°
#8	Personnel lifting platform on tele. jib - Extended	Fully Extended	Full 360°

Warning

1. The operator must read and understand the owner's manual before operating the crane.
2. Positioning or operation of crane beyond areas shown on these charts is not intended or approved except where specified in owner's manual.
3. Loaded boom angles at specified boom lengths give only an approximation of the operating radius. The boom angle before loading should be greater to account for deflections. Do not exceed the operating radius for rated loads.
4. The operating radius shown in the jib rating chart is for fully extended boom only. When boom is not fully extended, use only loaded boom angle to determine load rating of jib.
5. For boom angles not shown on jib load rating chart, use rating of next lower boom angle.
6. For boom lengths not shown, use rating of next shorter or longer boom length, whichever is less. For radii not shown, use rating of next longer radius.
7. Crane load ratings on outriggers are based on freely suspended loads with the machine leveled and standing on a firm uniform supporting surface. No attempt shall be made to move a load horizontally on the ground in any direction.
8. Practical working loads depend on supporting surface, wind, and other factors affecting stability such as hazardous surroundings, experience of personnel, and proper handling, all of which must be taken into account by the operator.
9. The maximum load which may be telescoped is limited by hydraulic pressure, boom angle, and boom lubrication. It is safe to attempt to telescope any load within the limits of the load rating chart. Boom must be fully retracted against boom stops at all times when lifting minimum boom length capacity loads.
10. Lifting off the main boom point while the swing around jib is erected is not intended or approved.

Information

1. Deductions must be made from rated loads for stowed jib, optional attachments, hooks, and load blocks (See deduction chart on page 8). Weights of slings and all other load handling devices shall be considered a part of the load.
2. Crane load ratings with outriggers are based on outriggers and stabilizers extended and set with machine leveled.
3. Load ratings above the blue line are structurally limited capacities. Load ratings below the blue line are stability limited capacities and do not exceed 85% of tipping.

Definitions

1. Operating radius is the horizontal distance from the axis of rotation to the center of the vertical hoist line or tackle with load applied.
2. Loaded boom angle as stated in the column head, is the included angle between the horizontal and longitudinal axes of the boom base after lifting rated load at rated radius.

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CM300.1 SERIES TELESCOPIC CRANE

TECHNICAL DESCRIPTIONS

Boom



- Boom length: Proportional boom
- 3-section 51 ft. (15,5 m)
 - 4-section 100 ft. (30,1 m)

2-sheave quick reeve boom point
Self lubricating slider pads



- 3051T:
- Boom Length 51 ft. (15.5 m)
 - Boom Max. Tip Height 62.3 ft. (19 m)
- 30100C:
- Boom Length 100 ft. (30.5 m)
 - Boom Max. Tip Height 110.6 ft. (33.5 m)



Boom angle (min/max): -9° / 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)



Maximum theoretical bottom-layer line pull:
11,500 lbs. (5,216 kg)



Main winch cable diameter: 5/8 in.
(16 mm) rotation resistant



Line length: 380 ft. (115,8 m)



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



Hook & ball: 5 T (4.5 mt) capacity hook with heavy-duty swivel and weight is provided for single line operation.

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 gal. (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



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

TECHNICAL DESCRIPTIONS

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

Options

Outriggers



Outriggers: Out-and-down style

- Fully extended: 22 ft. (6,7 m)

Stabilizer extended:

- Fully extended: 14.6 ft. (4,4 m)

Options

Jib

30100C:

- 1-section fixed jib 26 ft. (7,9 m)
- 2-section telescopic jib 26 ft. (7,9 m) - 46 ft. (14,0 m)

Max. Tip Height with Extension



30100C:

- Max. tip height with extension: 157 ft. (47,9 m)



30100C:

- Max. tip height with extension retracted: 137 ft. (41,8 m)

Hoist, Rope and Hook



5/8 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

2-Person Baskets



2-person man basket - Aluminum or steel - consult Manitex

- Non-rotating (600 lbs. cap.) - Steel
- Rotating (1,200 lbs. cap.) - Aluminum Main boom only

Operator Aids



4-Function radio remote crane control system

- 900 Mhz
- 433 Mhz

Tool Box & Bulkhead

24 in. L x 18 in. W x 18 in. H - Steel (610 mm L x 457 mm W x 457 mm H)

48 in. L x 24 in. W x 24 in. H - Aluminum (1219 mm L x 610 mm W x 610 mm H)

Bulkhead: 24 in. (610 mm)

Flatbeds

21 ft. Wood Bed x 96"

21 ft. Heavy Hauler Steel Bed x 96"

To learn more about this model, call 414-764-9200 or visit giuffre.com today!

Manitex



CM300.1

30-ton (27 mt) TELESCOPIC CRANE
CM300.1 SERIES PRODUCT GUIDE

UPTIME

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Georgetown, Texas 78626
1-877-314-3390 | www.Manlitex.com

MTX CM300 1 PC-EN-V2-0214



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Load Rating Chart

Model 30100C



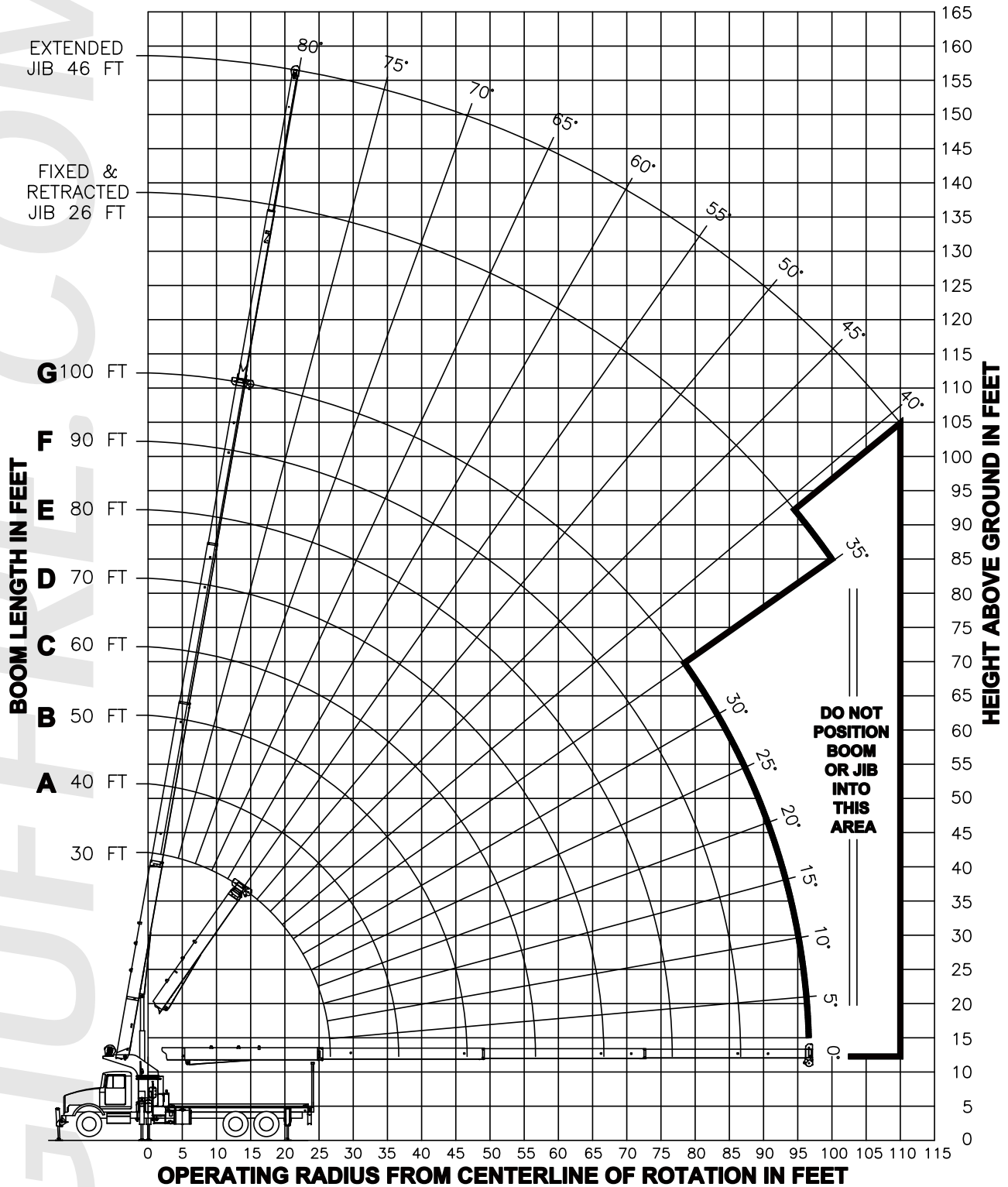
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**RANGE DIAGRAM
- FULL SPREAD CONFIGURATION -**



7300096-016 A

PAGE 2 OF 10

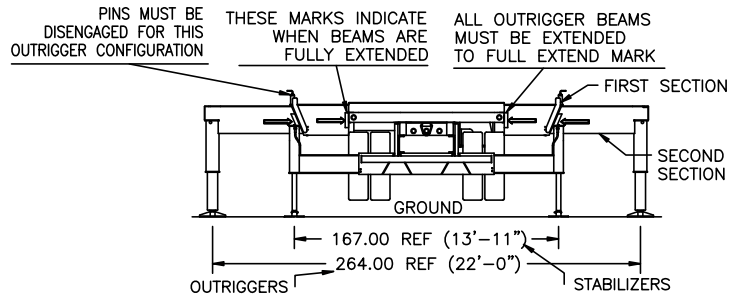


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- FULL SPREAD OUTRIGGER CONFIGURATION -

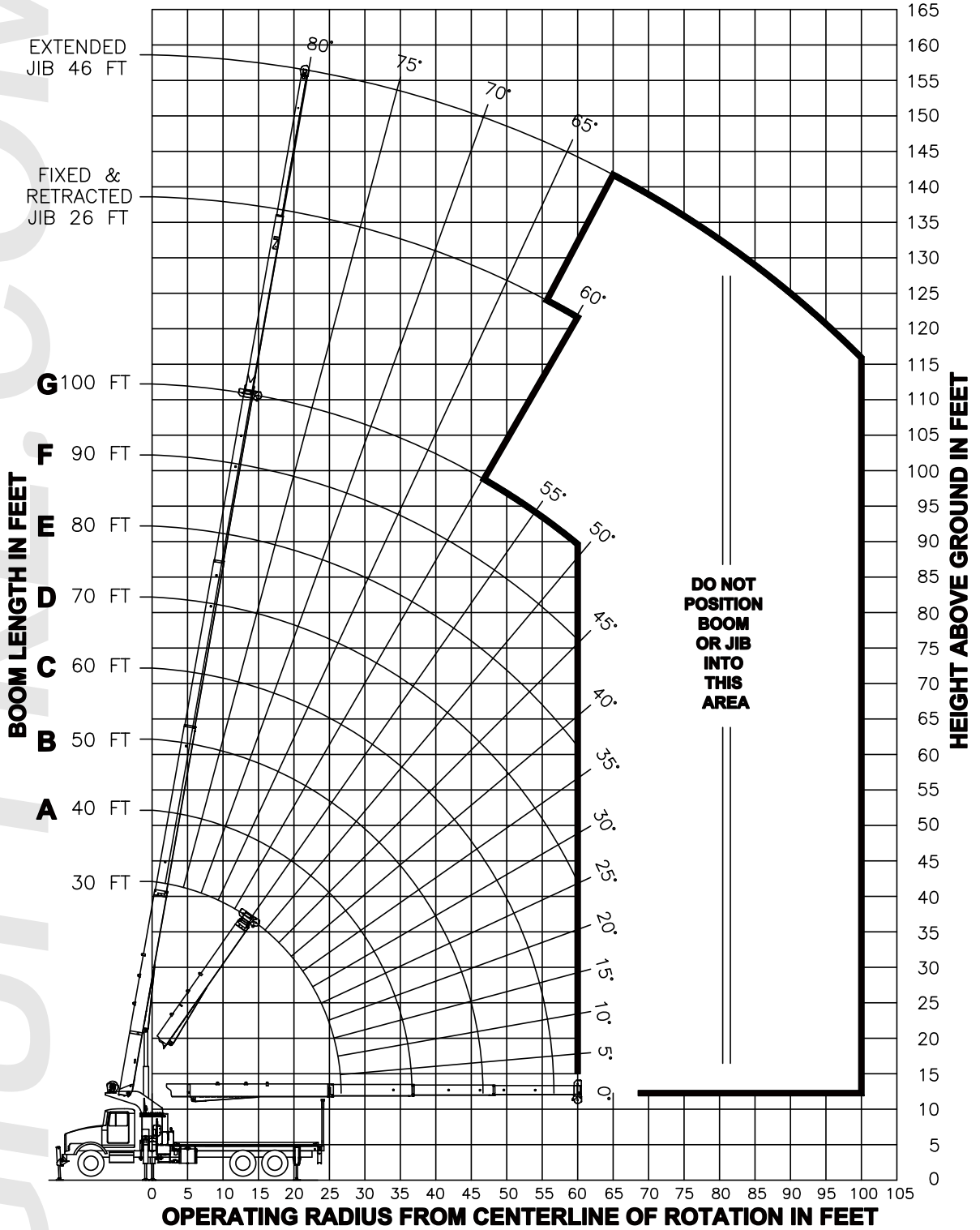
MAIN BOOM LMI CODE 1																	
LOAD RADIUS (FT)	30 FT		40 FT (A)		50 FT (B)		60 FT (C)		70 FT (D)		80 FT (E)		90 FT (F)		100 FT (G)		LOAD RADIUS (FT)
	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	CODE 1 LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	
5	77	60000															5
8	70.5	38800															8
10	66.5	33900	73	25000	77	25000											10
12	62	29830	70	25000	74.5	25000	78	25000									12
15	55	25700	65.5	23930	71	22710	75	21850	77.5	20190	79.5	16860					15
20	42	20350	57	19060	64.5	17980	70	17550	73.5	16930	76	14660	78.5	12470	80	10500	20
25	22	15880	47.5	16030	58	15140	64.5	14410	69	13840	72.5	12850	75	11080	77	9580	25
30			36	13350	50.5	12830	59	12200	64.5	11670	68.5	11250	72	9770	74	8540	30
35			19	10360	42.5	10630	53	10530	60	10060	65	9670	68.5	8630	71	7770	35
40					32.5	8240	46.5	8390	55	8490	60.5	8560	65.5	7910	68	6900	40
45					17.5	6520	39	6690	49.5	6780	56.5	6850	61.5	6900	65	6000	45
50							30	5410	43.5	5510	51.5	5580	57.5	5630	61.5	5250	50
55							16	4410	36.5	4520	46.5	4590	53.5	4640	58	4630	55
60									28	3730	41	3800	49	3850	54.5	3890	60
65									15.5	3080	35	3160	44.5	3210	50.5	3250	65
70											27	2620	39	2670	46.5	2710	70
75											15	2160	33.5	2220	42	2260	75
80													26	1830	37.5	1870	80
85													14.5	1480	32	1530	85
90															25	1230	90
95															14	960	95
	490 LBS		370 LBS		300 LBS		250 LBS		210 LBS		190 LBS		170 LBS		150 LBS		FIXED JIB
	730 LBS		550 LBS		440 LBS		370 LBS		320 LBS		280 LBS		250 LBS		220 LBS		TELE JIB

JIB LOAD CAPACITIES

LOAD RADIUS (FT) REF	26 FT FIXED JIB		26 FT TELE JIB		46 FT TELE JIB		LOAD RADIUS (FT) REF
	LOADED BOOM ANGLE (DEG)	CODE 2 LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	CODE 3 LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	CODE 4 LOAD CAPACITY (LBS)	
25	80	5300	80	5100			25
30	78	5300	78	5100	79.5	3050	30
35	76	5000	76	4800	78	3050	35
40	73.5	4650	73.5	4380	76.5	3050	40
45	71.5	4250	71.5	3980	74.5	3050	45
50	69	3890	69	3610	73	3050	50
55	66.5	3560	66.5	3280	71	2930	55
60	64	3270	64	2980	69	2690	60
65	61.5	2950	61.5	2600	66.5	2470	65
70	58.5	2610	58.5	2270	64.5	2260	70
75	55.5	2320	55.5	1970	62.5	2080	75
80	53	2010	53	1710	60	1890	80
85	49.5	1670	49.5	1380	57.5	1670	85
90	46.5	1370	46.5	1080	55	1470	90
95	43	1110	43	810	52.5	1290	95
100	39	880	39	580	49.5	1050	100
105					46.5	840	105
110					43.5	650	110

DEDUCTIONS FROM MAIN BOOM CAPACITIES FOR STOWED JIB

**RANGE DIAGRAM
- INTERMEDIATE SPREAD CONFIGURATION - (MID EXTEND)**



NOTE : LIFTING PERSONNEL WITH CRANE IN THIS OUTRIGGER CONFIGURATION IS STRICTLY PROHIBITED. USE ONLY FULLY EXTENDED OUTRIGGER CONFIGURATION WHEN LIFTING PERSONNEL.

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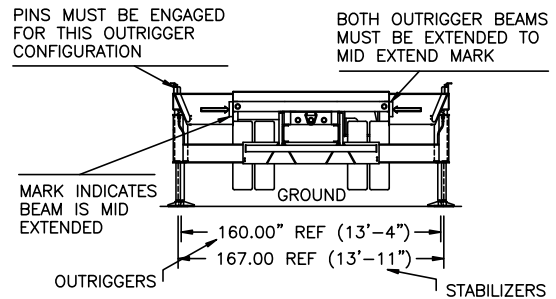


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**USE THIS CHART ONLY WHEN FRONT
OUTRIGGERS ARE IN THE
INTERMEDIATE POSITION AND
STABILIZERS
ARE FULLY EXTENDED**



- INTERMEDIATE SPREAD CONFIGURATION - (MID EXTEND)

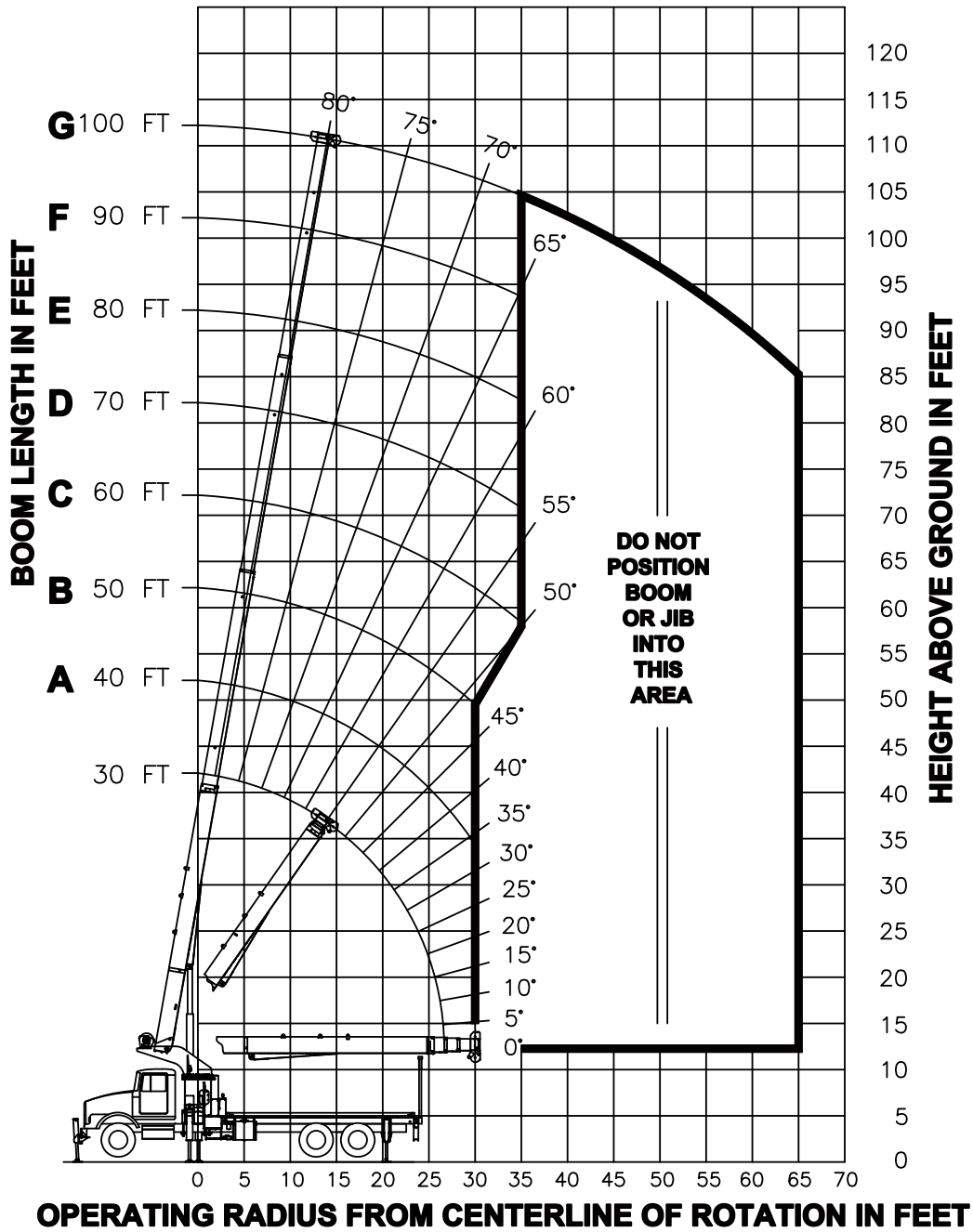
MAIN BOOM LMI CODE 9																	
LOAD RADIUS (FT)	30 FT		40 FT (A)		50 FT (B)		60 FT (C)		70 FT (D)		80 FT (E)		90 FT (F)		100 FT (G)		LOAD RADIUS (FT)
	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	CODE 1 LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	
5	77	60000															5
8	70.5	38800															8
10	66.5	33900	73	25000	77	25000											10
12	62	29830	70	25000	74.5	25000	78	25000									12
15	55	22680	65.5	23170	71	22710	75	21850	77.5	20190	79.5	16860					15
20	42	12710	57	13130	64.5	13360	70	13510	73.5	13610	76	13690	78.5	12470	80	10500	20
25	22	8140	47.5	8560	58	8770	64.5	8910	69	9000	72.5	9070	75	9120	77	9170	25
30			36	5940	50.5	6150	59	6280	64.5	6360	68.5	6430	72	6480	74	6520	30
35			19	4220	42.5	4440	53	4570	60	4660	65	4720	68.5	4760	71	4800	35
40					32.5	3250	46.5	3380	55	3460	60.5	3520	65.5	3570	68	3600	40
45					17.5	2350	39	2490	49.5	2580	56.5	2640	61.5	2680	65	2710	45
50							30	1800	43.5	1890	51.5	1950	57.5	2000	61.5	2030	50
55							16	1250	36.5	1350	46.5	1410	53.5	1450	58	1490	55
60									28	900	41	970	49	1010	54.5	1050	60
65																	65
70																	70
75																	75
80																	80
85																	85
90																	90
95																	95
	490 LBS		370 LBS		300 LBS		250 LBS		210 LBS		190 LBS		170 LBS		150 LBS		FIXED JIB
	730 LBS		550 LBS		440 LBS		370 LBS		320 LBS		280 LBS		250 LBS		220 LBS		TELE JIB

JIB LOAD CAPACITIES

LOAD RADIUS (FT) REF	26 FT FIXED JIB		26 FT TELE JIB		46 FT TELE JIB		LOAD RADIUS (FT) REF
	LOADED BOOM ANGLE (DEG)	CODE 10 LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	CODE 11 LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	CODE 12 LOAD CAPACITY (LBS)	
25	80	5300	80	5100			25
30	78	5300	78	5100	79.5	3050	30
35	76	4940	76	4640	78	3050	35
40	73.5	3730	73.5	3420	76.5	3050	40
45	71.5	2830	71.5	2530	74.5	3050	45
50	69	2140	69	1830	73	2350	50
55	66.5	1590	66.5	1290	71	1790	55
60	64	1150	64	840	69	1340	60
65					66.5	960	65
70							70
75							75
80							80
85							85
90							90
95							95
100							100
105							105
110							110

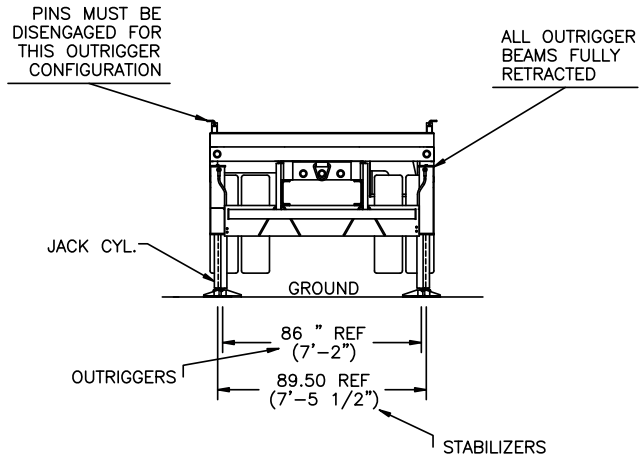
DEDUCTIONS FROM MAIN BOOM CAPACITIES FOR STOWED JIB

RANGE DIAGRAM - FULLY RETRACTED SPREAD CONFIGURATION -



NOTE : LIFTING PERSONNEL WITH CRANE IN THIS OUTRIGGER CONFIGURATION IS STRICTLY PROHIBITED. USE ONLY FULLY EXTENDED OUTRIGGER CONFIGURATION WHEN LIFTING PERSONNEL.

USE THIS CHART ONLY WHEN OUTRIGGERS AND STABILIZERS ARE FULLY RETRACTED



- FULLY RETRACTED SPREAD CONFIGURATION -

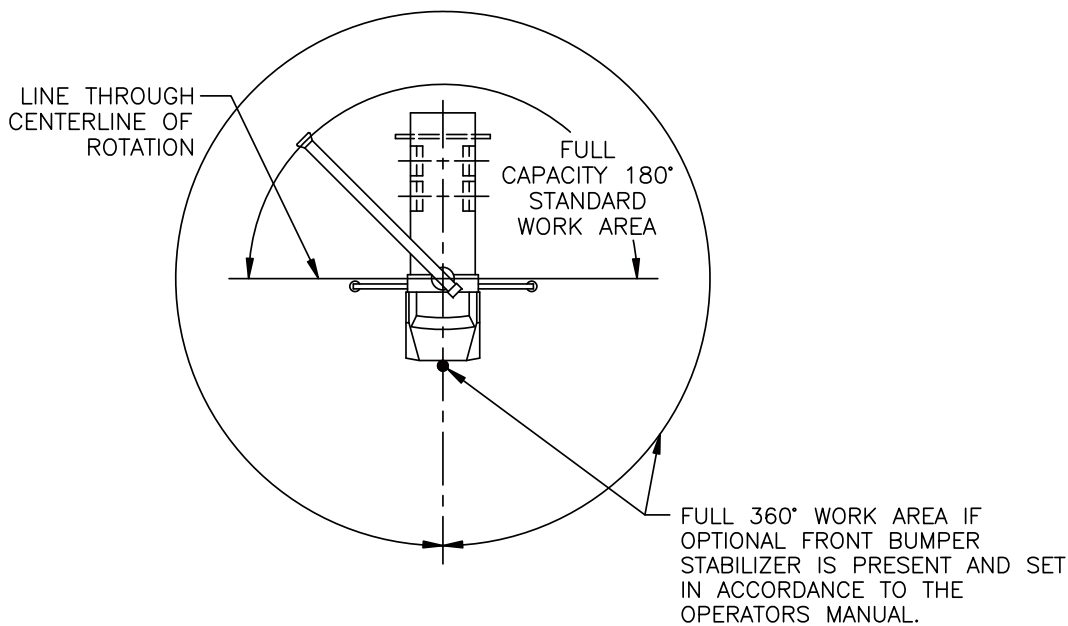
MAIN BOOM LMI CODE 13																	
LOAD RADIUS (FT)	30 FT		40 FT (A)		50 FT (B)		60 FT (C)		70 FT (D)		80 FT (E)		90 FT (F)		100 FT (G)		LOAD RADIUS (FT)
	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	CODE 1 LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	
5	77	60000															5
8	70.5	25250															8
10	66.5	16190	73	16620	77	16870											10
12	62	11440	70	11820	74.5	12050	78	12200									12
15	55	7430	65.5	7780	71	7980	75	8110	77.5	8210	79.5	8280					15
20	42	3980	57	4320	64.5	4500	70	4620	73.5	4710	76	4770	78.5	4810	80	4850	20
25	22	2110	47.5	2460	58	2650	64.5	2760	69	2840	72.5	2900	75	2940	77	2970	25
30			36	1300	50.5	1490	59	1600	64.5	1680	68.5	1730	72	1770	74	1800	30
35							53	810	60	880	65	940	68.5	980	71	1010	35
40																	40
45																	45
50																	50
55																	55
60																	60
65																	65
70																	70
75																	75
80																	80
85																	85
90																	90
95																	95
	490 LBS	370 LBS	300 LBS	250 LBS	210 LBS	190 LBS	170 LBS	150 LBS	FIXED JIB								
	730 LBS	550 LBS	440 LBS	370 LBS	320 LBS	280 LBS	250 LBS	220 LBS	TELE JIB								

DEDUCTIONS FROM MAIN BOOM CAPACITIES FOR STOWED JIB

To learn more about this model, call 414-764-9200 or visit giuffre.com today!

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	
8500 LBS	17000 LBS	25500 LBS	34000 LBS	42500 LBS	51000 LBS	60000 LBS	
7700 LBS	15400 LBS	23100 LBS	30800 LBS	38500 LBS	46200 LBS	53900 LBS	
							9/16" 6X25 IWRC (3.5:1 SF) – 29750 LBS MIN BREAKING STRENGTH
							9/16" ROT RESISTANT (5.0:1 SF) – 38500 LBS MIN BREAKING STRENGTH

AREA OF OPERATION



DEDUCTIONS FROM RATED LOADS FOR LOAD HANDLING DEVICES SUPPLIED BY MANITEX

AUXILIARY BLOCK	—	—	—	—	—	—	—	50 LBS
AUXILIARY SHEAVE	—	—	—	—	—	—	—	50 LBS
OVERHAUL BALL	—	—	—	—	—	—	—	SEE OVERHAUL BALL MANUFACTURER NAMEPLATE
LOAD BLOCK	—	—	—	—	—	—	—	SEE BLOCK MANUFACTURER NAMEPLATE
HOSE REEL	—	—	—	—	—	—	—	140 LBS
SWING AROUND JIB	—	—	—	—	—	—	—	SEE LOAD CHART

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LMI OPERATING CODES

SETTING	CRANE CONFIGURATION	OUTRIGGER CONFIGURATION
#1	MAIN BOOM	FULLY EXTENDED
#2	FIXED JIB	FULLY EXTENDED
#3	TELESCOPIC JIB-RETRACTED	FULLY EXTENDED
#4	TELESCOPIC JIB-EXTENDED	FULLY EXTENDED
#5	PERSONNEL LIFTING PLATFORM ON MAIN BOOM	FULLY EXTENDED
#6	PERSONNEL LIFTING PLATFORM ON FIXED JIB	FULLY EXTENDED
#7	PERSONNEL LIFTING PLATFORM ON TELESCOPIC JIB-RETRACTED	FULLY EXTENDED
#8	PERSONNEL LIFTING PLATFORM ON TELESCOPIC JIB-EXTENDED	FULLY EXTENDED
#9	MAIN BOOM	INTERMEDIATE
#10	FIXED JIB	INTERMEDIATE
#11	TELESCOPIC JIB-RETRACTED	INTERMEDIATE
#12	TELESCOPIC JIB-EXTENDED	INTERMEDIATE
#13	MAIN BOOM	FULLY RETRACTED

WARNING

1. THE OPERATOR MUST READ AND UNDERSTAND THE OWNER'S MANUAL BEFORE OPERATING THIS CRANE.
2. POSITIONING OR OPERATION OF CRANE BEYOND AREAS SHOWN ON THIS CHART IS NOT INTENDED OR APPROVED EXCEPT WHERE SPECIFIED IN OWNER'S MANUAL.
3. LOADED BOOM ANGLES AT SPECIFIED BOOM LENGTHS GIVE ONLY AN APPROXIMATION OF THE OPERATING RADIUS. THE BOOM ANGLE BEFORE LOADING SHOULD BE GREATER TO ACCOUNT FOR DEFLECTIONS. DO NOT EXCEED THE OPERATING RADIUS FOR RATED LOADS.
4. THE OPERATING RADIUS SHOWN IN THE JIB RATING CHART IS FOR FULLY EXTENDED BOOM ONLY. WHEN BOOM IS NOT FULLY EXTENDED, USE ONLY LOADED BOOM ANGLE TO DETERMINE LOAD RATING OF JIB.
5. FOR BOOM ANGLES NOT SHOWN ON JIB LOAD RATING CHART, USE RATING OF NEXT LOWER BOOM ANGLE.
6. FOR BOOM LENGTHS NOT SHOWN, USE RATING OF NEXT SHORTER OR LONGER BOOM LENGTH, WHICHEVER IS LESS. FOR RADII NOT SHOWN, USE RATING OF NEXT LONGER RADIUS.
7. CRANE LOAD RATINGS ON OUTRIGGERS ARE BASED ON FREELY SUSPENDED LOADS WITH THE MACHINE LEVELED AND STANDING ON A FIRM UNIFORM SUPPORTING SURFACE. NO ATTEMPT SHALL BE MADE TO MOVE A LOAD HORIZONTALLY ON THE GROUND IN ANY DIRECTION.

WARNING (CONTINUED)

8. PRACTICAL WORKING LOADS DEPEND ON SUPPORTING SURFACE, WIND, AND OTHER FACTORS AFFECTING STABILITY SUCH AS HAZARDOUS SURROUNDINGS, EXPERIENCE OF PERSONNEL, AND PROPER HANDLING, ALL OF WHICH MUST BE TAKEN INTO ACCOUNT BY THE OPERATOR.
9. THE MAXIMUM LOAD WHICH MAY BE TELESCOPED IS LIMITED BY HYDRAULIC PRESSURE, BOOM ANGLE, AND BOOM LUBRICATION. IT IS SAFE TO ATTEMPT TO TELESCOPE ANY LOAD WITHIN THE LIMITS OF THE LOAD RATING CHART.
10. LIFTING OFF THE MAIN BOOM POINT WHILE THE SWING AROUND JIB IS ERECTED IS NOT INTENDED OR APPROVED.

INFORMATION

1. DEDUCTIONS MUST BE MADE FROM RATED LOADS FOR STOWED JIB, OPTIONAL ATTACHMENTS, HOOKS, AND LOADBLOCKS (SEE DEDUCTION CHART). WEIGHTS OF SLINGS AND ALL OTHER LOAD HANDLING DEVICES SHALL BE CONSIDERED A PART OF THE LOAD.
2. LOAD RATINGS ABOVE THE HEAVY LINE ARE STRUCTURALLY LIMITED CAPACITIES. LOAD RATINGS BELOW THE HEAVY LINE ARE STABILITY LIMITED CAPACITIES AND DO NOT EXCEED 85% OF TIPPING.

DEFINITIONS

1. OPERATING RADIUS IS THE HORIZONTAL DISTANCE FROM THE AXIS OF ROTATION TO THE CENTER OF THE VERTICAL HOIST LINE OR TACKLE WITH LOAD APPLIED.
2. LOADED BOOM ANGLE AS SHOWN IN THE COLUMN HEADED BY \angle , IS THE INCLUDED ANGLE BETWEEN THE HORIZONTAL AND LONGITUDINAL AXES OF THE BOOM BASE AFTER LIFTING RATED LOAD AT RATED RADIUS.

Load Rating Chart

Model 30100C



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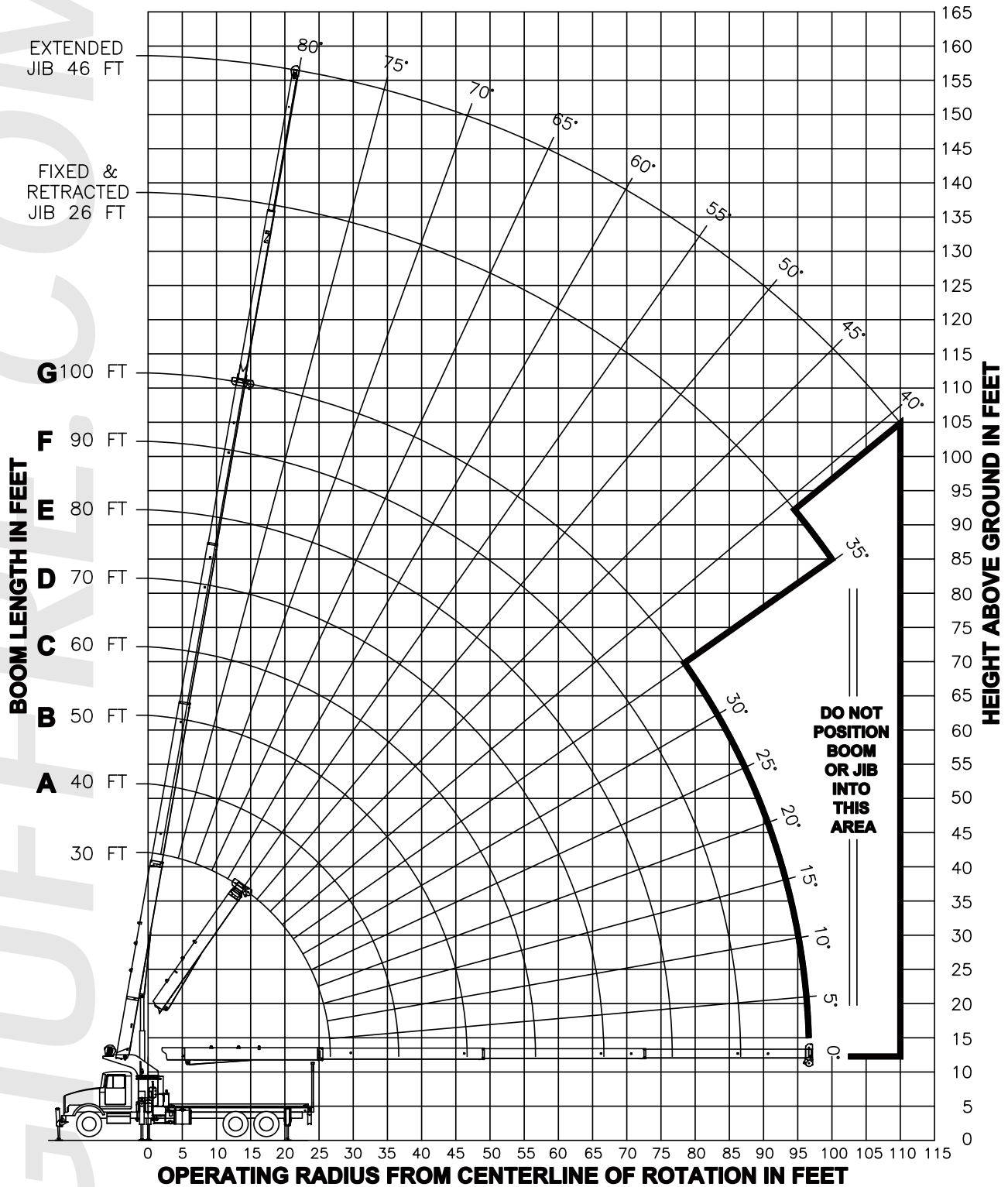
NOTE: Additional copies of this Load Rating Chart can be purchased from your Manitex Distributor. When ordering, use the part number shown in the bottom left corner of this page.

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RANGE DIAGRAM - FULL SPREAD CONFIGURATION -



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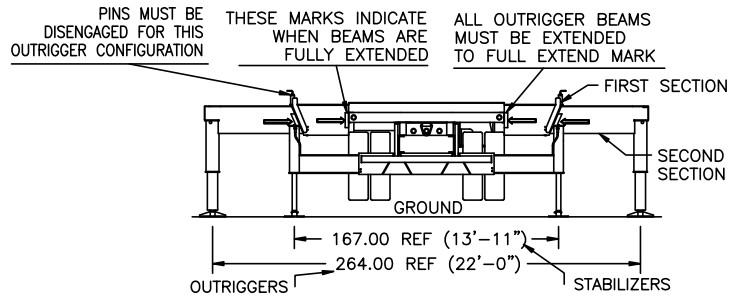
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**USE THIS CHART ONLY
WHEN OUTRIGGERS
AND STABILIZERS ARE
FULLY EXTENDED**



- FULL SPREAD OUTRIGGER CONFIGURATION -

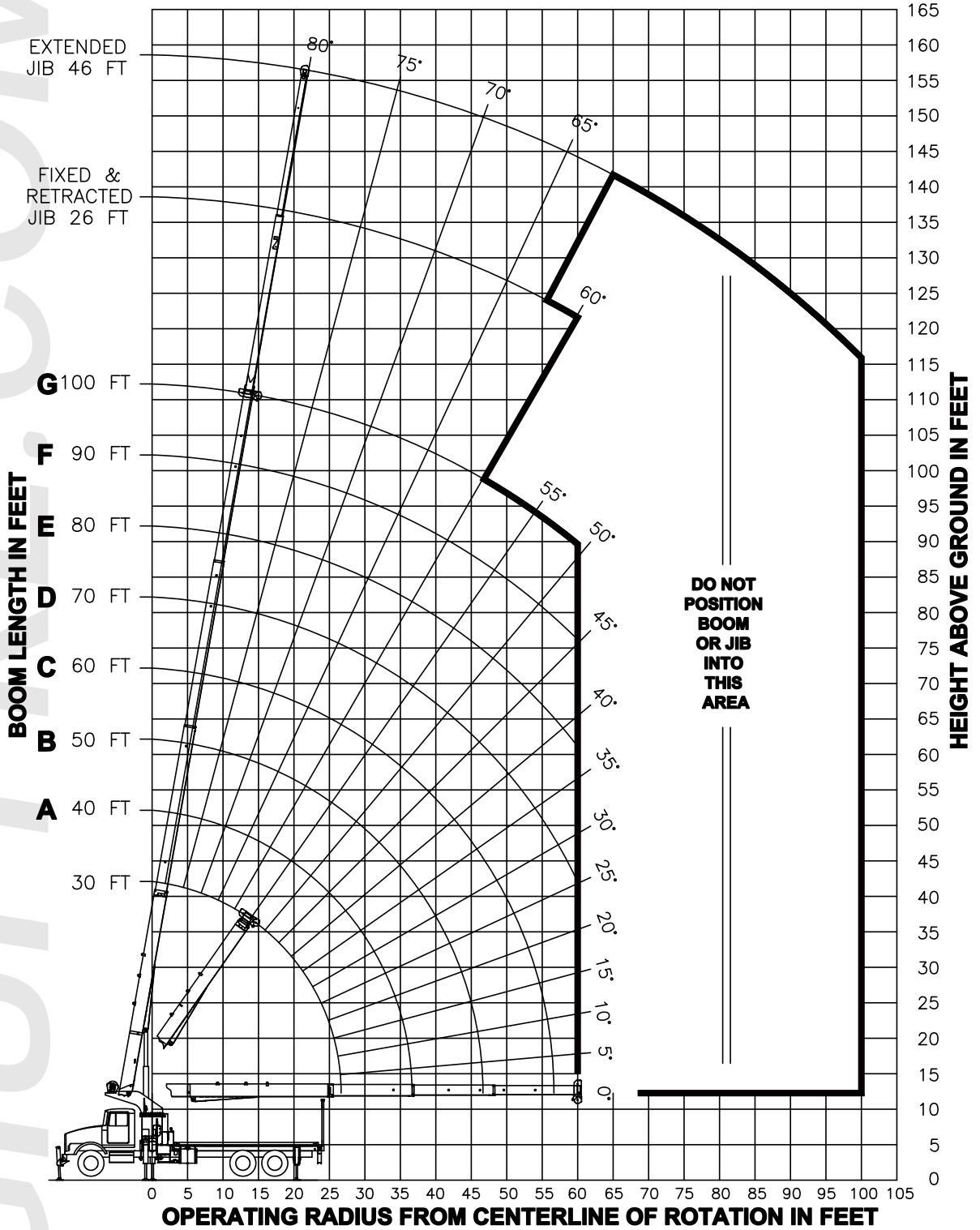
MAIN BOOM LMI CODE 1																	
LOAD RADIUS (FT)	30 FT		40 FT (A)		50 FT (B)		60 FT (C)		70 FT (D)		80 FT (E)		90 FT (F)		100 FT (G)		LOAD RADIUS (FT)
	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	CODE 1 LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	
5	77	60000															5
8	70.5	38800															8
10	66.5	33900	73	25000	77	25000											10
12	62	29830	70	25000	74.5	25000	78	25000									12
15	55	25700	65.5	23930	71	22710	75	21850	77.5	20190	79.5	16860					15
20	42	20350	57	19060	64.5	17980	70	17550	73.5	16930	76	14660	78.5	12470	80	10500	20
25	22	15880	47.5	16030	58	15140	64.5	14410	69	13840	72.5	12850	75	11080	77	9580	25
30			36	13350	50.5	12830	59	12200	64.5	11670	68.5	11250	72	9770	74	8540	30
35			19	10360	42.5	10630	53	10530	60	10060	65	9670	68.5	8630	71	7770	35
40					32.5	8240	46.5	8390	55	8490	60.5	8560	65.5	7910	68	6900	40
45					17.5	6520	39	6690	49.5	6780	56.5	6850	61.5	6900	65	6000	45
50							30	5410	43.5	5510	51.5	5580	57.5	5630	61.5	5250	50
55							16	4410	36.5	4520	46.5	4590	53.5	4640	58	4630	55
60									28	3730	41	3800	49	3850	54.5	3890	60
65									15.5	3080	35	3160	44.5	3210	50.5	3250	65
70											27	2620	39	2670	46.5	2710	70
75											15	2160	33.5	2220	42	2260	75
80													26	1830	37.5	1870	80
85													14.5	1480	32	1530	85
90															25	1230	90
95															14	960	95
	490 LBS		370 LBS		300 LBS		250 LBS		210 LBS		190 LBS		170 LBS		150 LBS		FIXED JIB
	730 LBS		550 LBS		440 LBS		370 LBS		320 LBS		280 LBS		250 LBS		220 LBS		TELE JIB

JIB LOAD CAPACITIES

LOAD RADIUS (FT) REF	26 FT FIXED JIB		26 FT TELE JIB		46 FT TELE JIB		LOAD RADIUS (FT) REF
	LOADED BOOM ANGLE (DEG)	CODE 2 LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	CODE 3 LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	CODE 4 LOAD CAPACITY (LBS)	
25	80	5300	80	5100			25
30	78	5300	78	5100	79.5	3050	30
35	76	5000	76	4800	78	3050	35
40	73.5	4650	73.5	4380	76.5	3050	40
45	71.5	4250	71.5	3980	74.5	3050	45
50	69	3890	69	3610	73	3050	50
55	66.5	3560	66.5	3280	71	2930	55
60	64	3270	64	2980	69	2690	60
65	61.5	2950	61.5	2600	66.5	2470	65
70	58.5	2610	58.5	2270	64.5	2260	70
75	55.5	2320	55.5	1970	62.5	2080	75
80	53	2010	53	1710	60	1890	80
85	49.5	1670	49.5	1380	57.5	1670	85
90	46.5	1370	46.5	1080	55	1470	90
95	43	1110	43	810	52.5	1290	95
100	39	880	39	580	49.5	1050	100
105					46.5	840	105
110					43.5	650	110

DEDUCTIONS FROM MAIN BOOM CAPACITIES FOR STOWED JIB

**RANGE DIAGRAM
- INTERMEDIATE SPREAD CONFIGURATION - (MID EXTEND)**



NOTE : LIFTING PERSONNEL WITH CRANE IN THIS OUTRIGGER CONFIGURATION IS STRICTLY PROHIBITED. USE ONLY FULLY EXTENDED OUTRIGGER CONFIGURATION WHEN LIFTING PERSONNEL.

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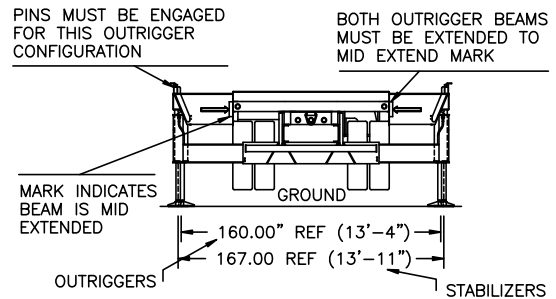


AVAILABLE AT:

GIUFFRE.COM

GIUFFRE BROS CRANES INC.

**USE THIS CHART ONLY WHEN FRONT
OUTRIGGERS ARE IN THE
INTERMEDIATE POSITION AND
STABILIZERS
ARE FULLY EXTENDED**



- INTERMEDIATE SPREAD CONFIGURATION - (MID EXTEND)

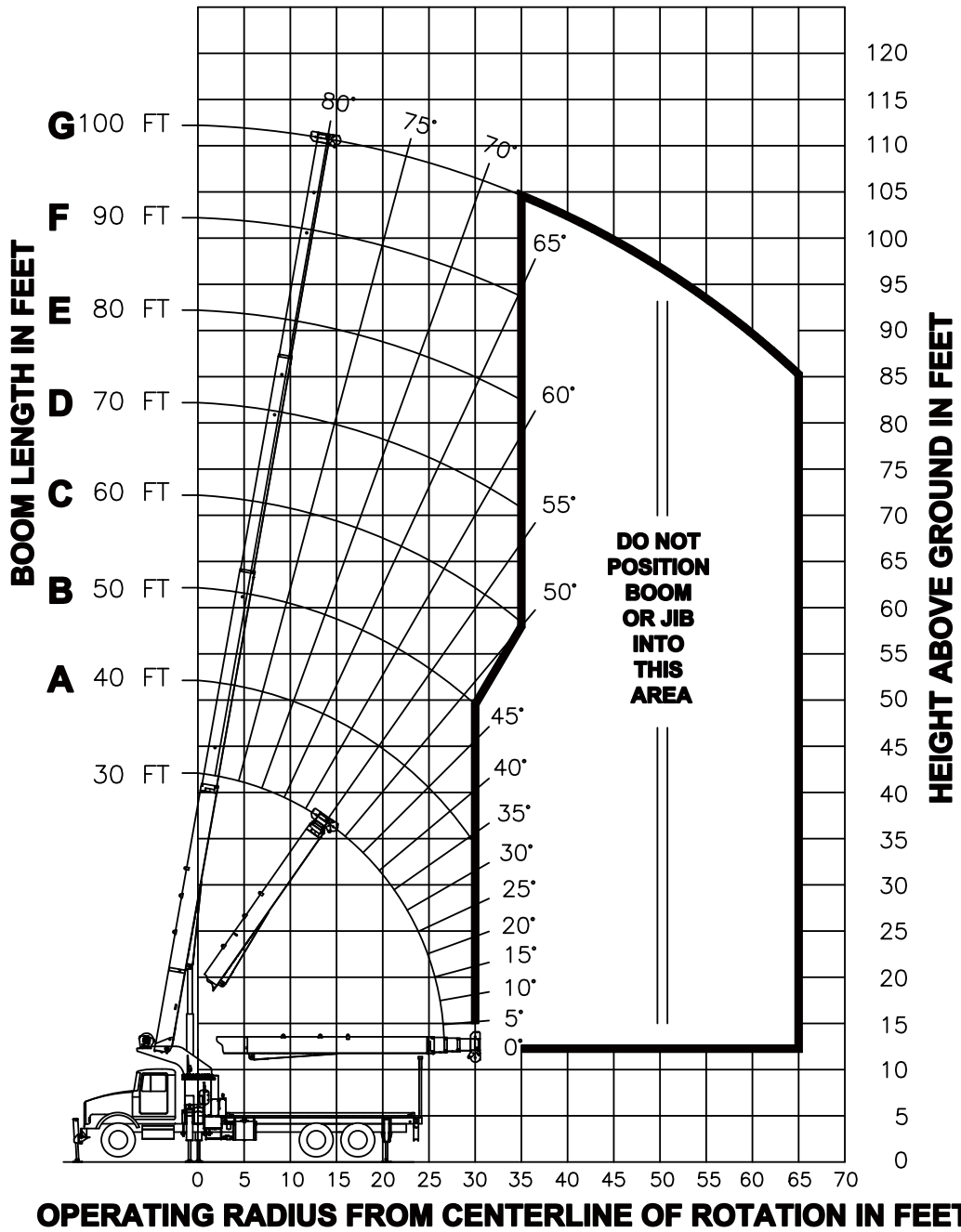
MAIN BOOM LMI CODE 9																	
LOAD RADIUS (FT)	30 FT		40 FT (A)		50 FT (B)		60 FT (C)		70 FT (D)		80 FT (E)		90 FT (F)		100 FT (G)		LOAD RADIUS (FT)
	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	CODE 1 LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	
5	77	60000															5
8	70.5	38800															8
10	66.5	33900	73	25000	77	25000											10
12	62	29830	70	25000	74.5	25000	78	25000									12
15	55	22680	65.5	23170	71	22710	75	21850	77.5	20190	79.5	16860					15
20	42	12710	57	13130	64.5	13360	70	13510	73.5	13610	76	13690	78.5	12470	80	10500	20
25	22	8140	47.5	8560	58	8770	64.5	8910	69	9000	72.5	9070	75	9120	77	9170	25
30			36	5940	50.5	6150	59	6280	64.5	6360	68.5	6430	72	6480	74	6520	30
35			19	4220	42.5	4440	53	4570	60	4660	65	4720	68.5	4760	71	4800	35
40					32.5	3250	46.5	3380	55	3460	60.5	3520	65.5	3570	68	3600	40
45					17.5	2350	39	2490	49.5	2580	56.5	2640	61.5	2680	65	2710	45
50							30	1800	43.5	1890	51.5	1950	57.5	2000	61.5	2030	50
55							16	1250	36.5	1350	46.5	1410	53.5	1450	58	1490	55
60									28	900	41	970	49	1010	54.5	1050	60
65																	65
70																	70
75																	75
80																	80
85																	85
90																	90
95																	95
	490 LBS		370 LBS		300 LBS		250 LBS		210 LBS		190 LBS		170 LBS		150 LBS		FIXED JIB
	730 LBS		550 LBS		440 LBS		370 LBS		320 LBS		280 LBS		250 LBS		220 LBS		TELE JIB

JIB LOAD CAPACITIES

LOAD RADIUS (FT) REF	26 FT FIXED JIB		26 FT TELE JIB		46 FT TELE JIB		LOAD RADIUS (FT) REF
	LOADED BOOM ANGLE (DEG)	CODE 10 LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	CODE 11 LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	CODE 12 LOAD CAPACITY (LBS)	
25	80	5300	80	5100			25
30	78	5300	78	5100	79.5	3050	30
35	76	4940	76	4640	78	3050	35
40	73.5	3730	73.5	3420	76.5	3050	40
45	71.5	2830	71.5	2530	74.5	3050	45
50	69	2140	69	1830	73	2350	50
55	66.5	1590	66.5	1290	71	1790	55
60	64	1150	64	840	69	1340	60
65					66.5	960	65
70							70
75							75
80							80
85							85
90							90
95							95
100							100
105							105
110							110

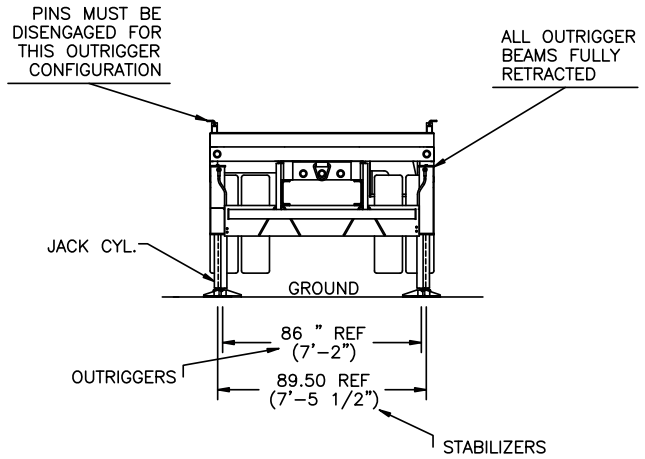
DEDUCTIONS FROM MAIN BOOM CAPACITIES FOR STOWED JIB

**RANGE DIAGRAM
- FULLY RETRACTED SPREAD CONFIGURATION -**



NOTE : LIFTING PERSONNEL WITH CRANE IN THIS OUTRIGGER CONFIGURATION IS STRICTLY PROHIBITED. USE ONLY FULLY EXTENDED OUTRIGGER CONFIGURATION WHEN LIFTING PERSONNEL.

USE THIS CHART ONLY WHEN OUTRIGGERS AND STABILIZERS ARE FULLY RETRACTED



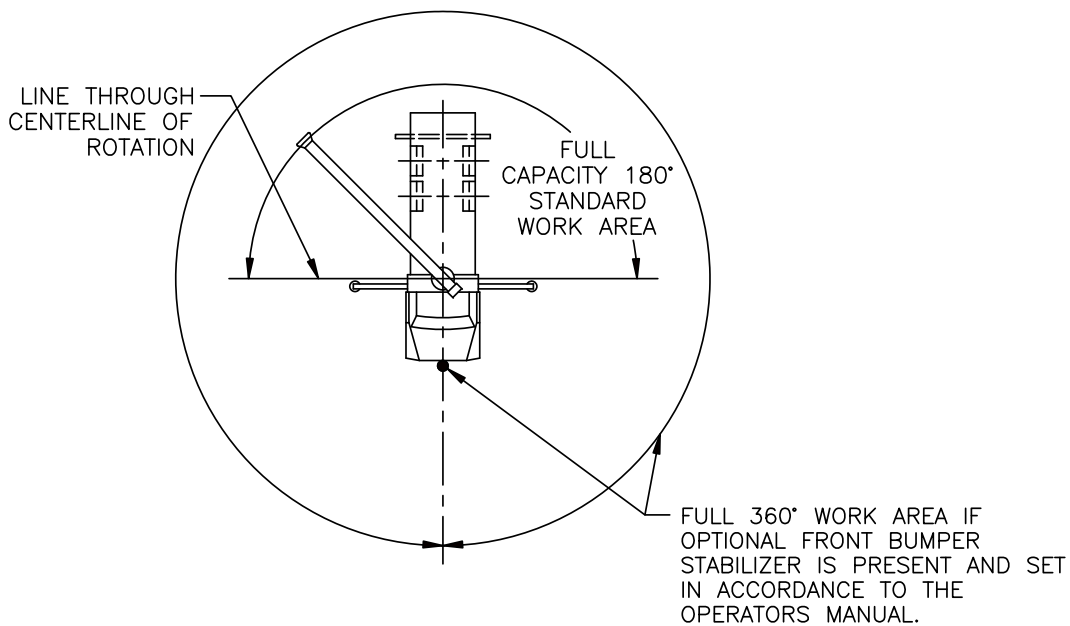
- FULLY RETRACTED SPREAD CONFIGURATION -

MAIN BOOM LMI CODE 13																	
LOAD RADIUS (FT)	30 FT		40 FT (A)		50 FT (B)		60 FT (C)		70 FT (D)		80 FT (E)		90 FT (F)		100 FT (G)		LOAD RADIUS (FT)
	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	CODE 1 LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	LOADED BOOM ANGLE (DEG)	LOAD CAPACITY (LBS)	
5	77	60000															5
8	70.5	25250															8
10	66.5	16190	73	16620	77	16870											10
12	62	11440	70	11820	74.5	12050	78	12200									12
15	55	7430	65.5	7780	71	7980	75	8110	77.5	8210	79.5	8280					15
20	42	3980	57	4320	64.5	4500	70	4620	73.5	4710	76	4770	78.5	4810	80	4850	20
25	22	2110	47.5	2460	58	2650	64.5	2760	69	2840	72.5	2900	75	2940	77	2970	25
30			36	1300	50.5	1490	59	1600	64.5	1680	68.5	1730	72	1770	74	1800	30
35							53	810	60	880	65	940	68.5	980	71	1010	35
40																	40
45																	45
50																	50
55																	55
60																	60
65																	65
70																	70
75																	75
80																	80
85																	85
90																	90
95																	95
	490 LBS	370 LBS	300 LBS	250 LBS	210 LBS	190 LBS	170 LBS	150 LBS	FIXED JIB								
	730 LBS	550 LBS	440 LBS	370 LBS	320 LBS	280 LBS	250 LBS	220 LBS	TELE JIB								

DEDUCTIONS FROM MAIN BOOM CAPACITIES FOR STOWED JIB

ALLOWABLE LINE PULL							WARNING
1 PART LINE	2 PART LINE	3 PART LINE	4 PART LINE	5 PART LINE	6 PART LINE	7 PART LINE	
8500 LBS	17000 LBS	25500 LBS	34000 LBS	42500 LBS	51000 LBS	60000 LBS	
7700 LBS	15400 LBS	23100 LBS	30800 LBS	38500 LBS	46200 LBS	53900 LBS	
							9/16" 6X25 IWRC (3.5:1 SF) - 29750 LBS MIN BREAKING STRENGTH
							9/16" ROT RESISTANT (5.0:1 SF) - 38500 LBS MIN BREAKING STRENGTH

AREA OF OPERATION



DEDUCTIONS FROM RATED LOADS FOR LOAD HANDLING DEVICES SUPPLIED BY MANITEX

AUXILIARY BLOCK	—	—	—	—	—	—	—	—	50 LBS
AUXILIARY SHEAVE	—	—	—	—	—	—	—	—	50 LBS
OVERHAUL BALL	—	—	—	—	—	—	—	—	SEE OVERHAUL BALL MANUFACTURER NAMEPLATE
LOAD BLOCK	—	—	—	—	—	—	—	—	SEE BLOCK MANUFACTURER NAMEPLATE
HOSE REEL	—	—	—	—	—	—	—	—	140 LBS
SWING AROUND JIB	—	—	—	—	—	—	—	—	SEE LOAD CHART

LMI OPERATING CODES

SETTING	CRANE CONFIGURATION	OUTRIGGER CONFIGURATION
#1	MAIN BOOM	FULLY EXTENDED
#2	FIXED JIB	FULLY EXTENDED
#3	TELESCOPIC JIB-RETRACTED	FULLY EXTENDED
#4	TELESCOPIC JIB-EXTENDED	FULLY EXTENDED
#5	PERSONNEL LIFTING PLATFORM ON MAIN BOOM	FULLY EXTENDED
#6	PERSONNEL LIFTING PLATFORM ON FIXED JIB	FULLY EXTENDED
#7	PERSONNEL LIFTING PLATFORM ON TELESCOPIC JIB-RETRACTED	FULLY EXTENDED
#8	PERSONNEL LIFTING PLATFORM ON TELESCOPIC JIB-EXTENDED	FULLY EXTENDED
#9	MAIN BOOM	INTERMEDIATE
#10	FIXED JIB	INTERMEDIATE
#11	TELESCOPIC JIB-RETRACTED	INTERMEDIATE
#12	TELESCOPIC JIB-EXTENDED	INTERMEDIATE
#13	MAIN BOOM	FULLY RETRACTED

WARNING

1. THE OPERATOR MUST READ AND UNDERSTAND THE OWNER'S MANUAL BEFORE OPERATING THIS CRANE.
2. POSITIONING OR OPERATION OF CRANE BEYOND AREAS SHOWN ON THIS CHART IS NOT INTENDED OR APPROVED EXCEPT WHERE SPECIFIED IN OWNER'S MANUAL.
3. LOADED BOOM ANGLES AT SPECIFIED BOOM LENGTHS GIVE ONLY AN APPROXIMATION OF THE OPERATING RADIUS. THE BOOM ANGLE BEFORE LOADING SHOULD BE GREATER TO ACCOUNT FOR DEFLECTIONS. DO NOT EXCEED THE OPERATING RADIUS FOR RATED LOADS.
4. THE OPERATING RADIUS SHOWN IN THE JIB RATING CHART IS FOR FULLY EXTENDED BOOM ONLY. WHEN BOOM IS NOT FULLY EXTENDED, USE ONLY LOADED BOOM ANGLE TO DETERMINE LOAD RATING OF JIB.
5. FOR BOOM ANGLES NOT SHOWN ON JIB LOAD RATING CHART, USE RATING OF NEXT LOWER BOOM ANGLE.
6. FOR BOOM LENGTHS NOT SHOWN, USE RATING OF NEXT SHORTER OR LONGER BOOM LENGTH, WHICHEVER IS LESS. FOR RADII NOT SHOWN, USE RATING OF NEXT LONGER RADIUS.
7. CRANE LOAD RATINGS ON OUTRIGGERS ARE BASED ON FREELY SUSPENDED LOADS WITH THE MACHINE LEVELED AND STANDING ON A FIRM UNIFORM SUPPORTING SURFACE. NO ATTEMPT SHALL BE MADE TO MOVE A LOAD HORIZONTALLY ON THE GROUND IN ANY DIRECTION.

WARNING (CONTINUED)

8. PRACTICAL WORKING LOADS DEPEND ON SUPPORTING SURFACE, WIND, AND OTHER FACTORS AFFECTING STABILITY SUCH AS HAZARDOUS SURROUNDINGS, EXPERIENCE OF PERSONNEL, AND PROPER HANDLING, ALL OF WHICH MUST BE TAKEN INTO ACCOUNT BY THE OPERATOR.
9. THE MAXIMUM LOAD WHICH MAY BE TELESCOPED IS LIMITED BY HYDRAULIC PRESSURE, BOOM ANGLE, AND BOOM LUBRICATION. IT IS SAFE TO ATTEMPT TO TELESCOPE ANY LOAD WITHIN THE LIMITS OF THE LOAD RATING CHART.
10. LIFTING OFF THE MAIN BOOM POINT WHILE THE SWING AROUND JIB IS ERECTED IS NOT INTENDED OR APPROVED.

INFORMATION

1. DEDUCTIONS MUST BE MADE FROM RATED LOADS FOR STOWED JIB, OPTIONAL ATTACHMENTS, HOOKS, AND LOADBLOCKS (SEE DEDUCTION CHART). WEIGHTS OF SLINGS AND ALL OTHER LOAD HANDLING DEVICES SHALL BE CONSIDERED A PART OF THE LOAD.
2. LOAD RATINGS ABOVE THE HEAVY LINE ARE STRUCTURALLY LIMITED CAPACITIES. LOAD RATINGS BELOW THE HEAVY LINE ARE STABILITY LIMITED CAPACITIES AND DO NOT EXCEED 85% OF TIPPING.

DEFINITIONS

1. OPERATING RADIUS IS THE HORIZONTAL DISTANCE FROM THE AXIS OF ROTATION TO THE CENTER OF THE VERTICAL HOIST LINE OR TACKLE WITH LOAD APPLIED.
2. LOADED BOOM ANGLE AS SHOWN IN THE COLUMN HEADED BY \sphericalangle , IS THE INCLUDED ANGLE BETWEEN THE HORIZONTAL AND LONGITUDINAL AXES OF THE BOOM BASE AFTER LIFTING RATED LOAD AT RATED RADIUS.