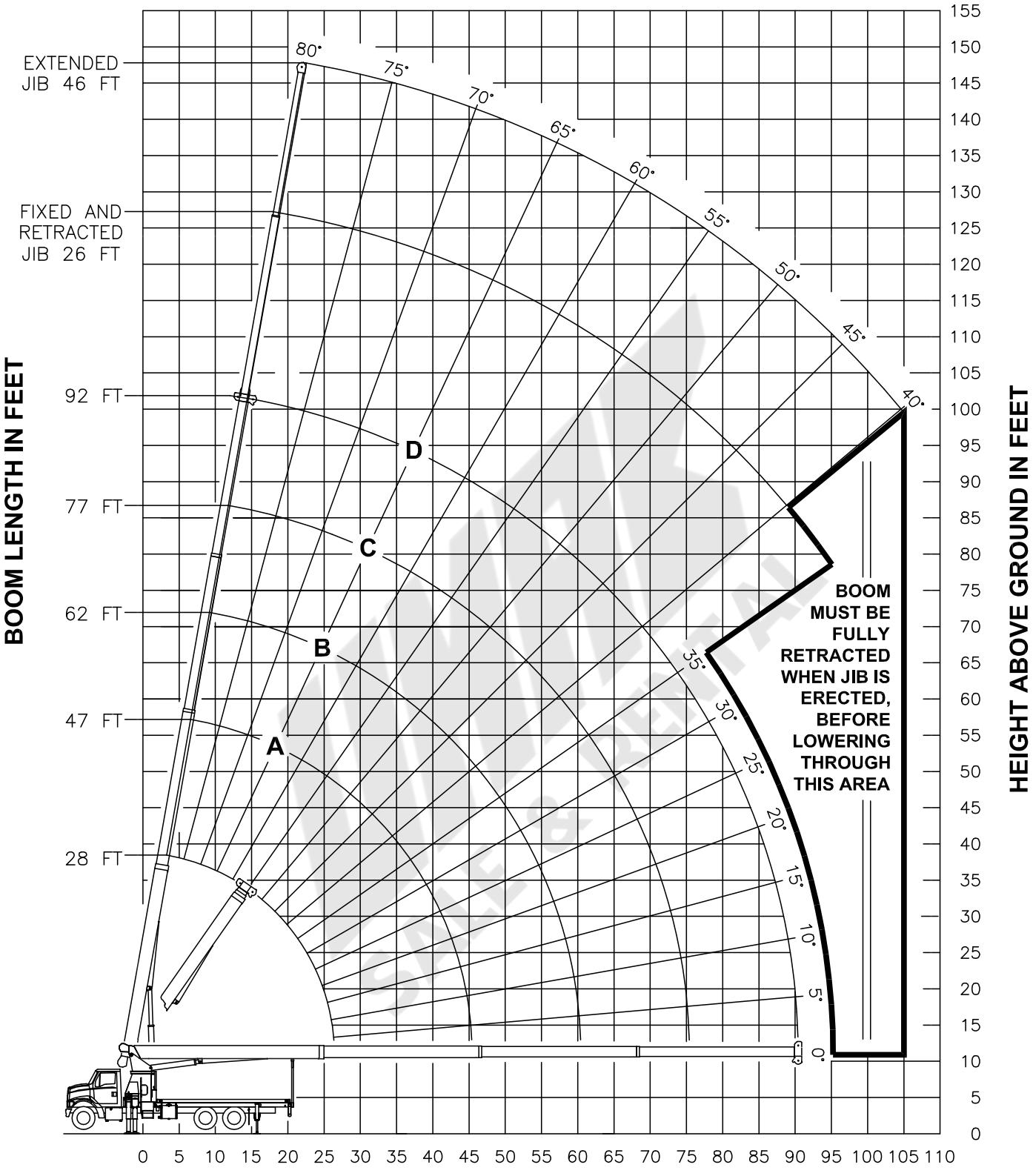
Load Rating Chart

Model 2892C & 2892T

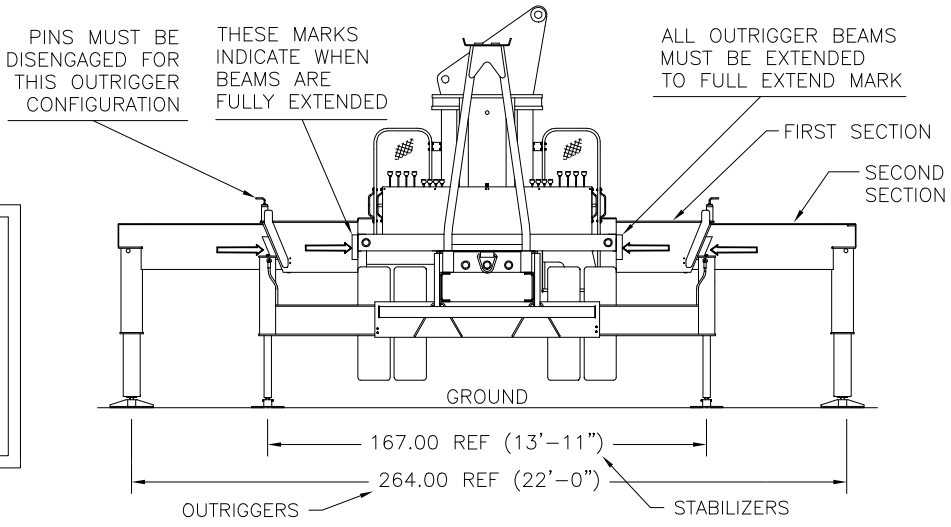
NOTE: Additional copies of this Load Rating Chart can be purchased from your Manitex Distributor. When ordering, use the part number shown in the bottom left corner of this page.

RANGE DIAGRAM
- FULL SPREAD CONFIGURATION -



OPERATING RADIUS FROM CENTERLINE OF ROTATION IN FEET

USE THIS CHART ONLY WHEN OUTRIGGERS AND STABILIZERS ARE FULLY EXTENDED



- FULL SPREAD CONFIGURATION -

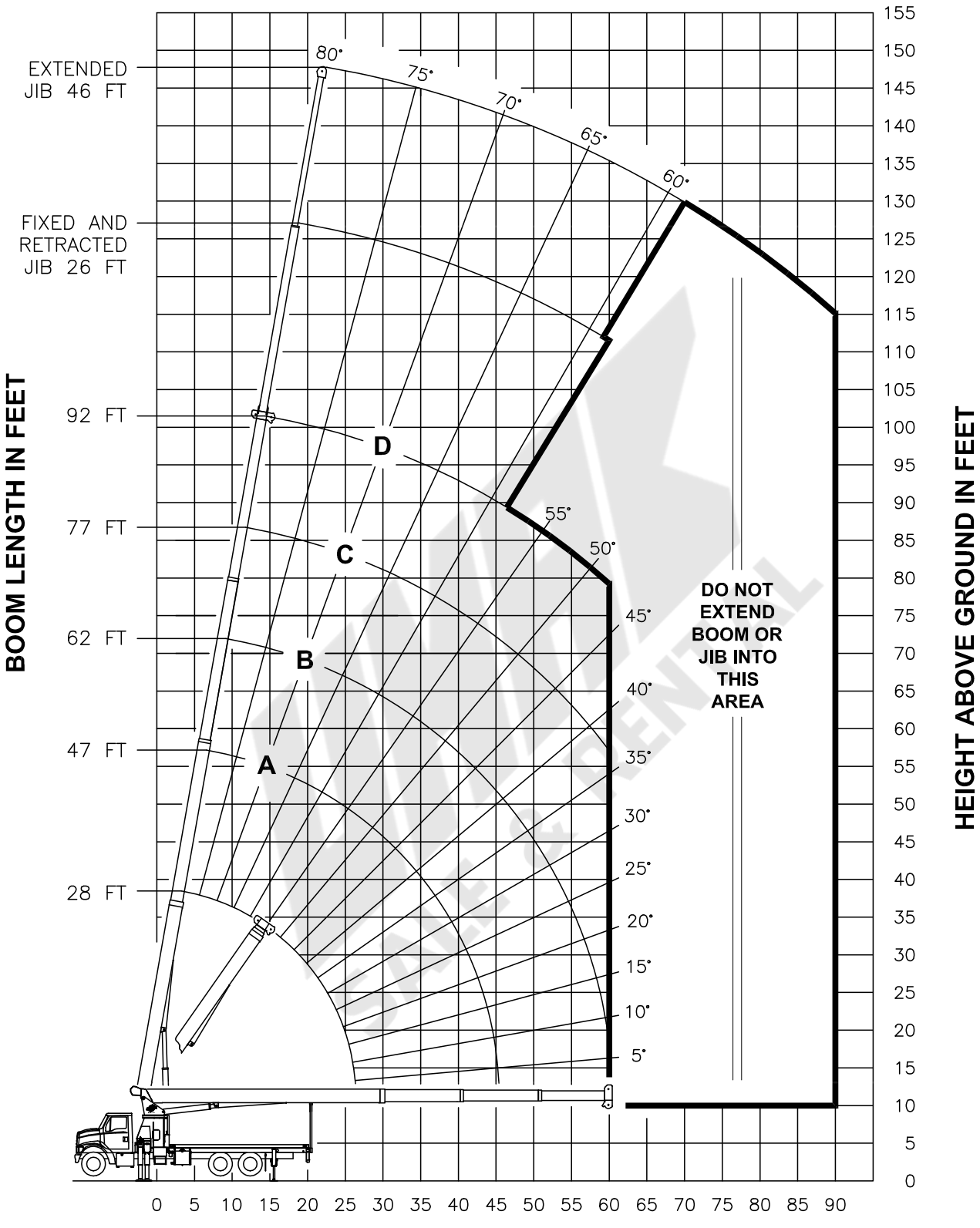
MAIN BOOM LOAD RATINGS IN LBS — LMI CODE #1

OPERATING RADIUS FT	LOADED BOOM ANGLE / BOOM LENGTH AND MARKER	28 FT	A ∠	A 47 FT	B ∠	B 62 FT	C ∠	C 77 FT	D ∠	D 92 FT
5	79	56000								
8	73	40670								
10	69	34520	78	22500						
12	64	30130	76	22500	80	22500				
15	57	25430	72	22310	77	20960	80	15920		
20	43	20130	65	17540	72	16290	77	13540	79	10700
25	22	15630	58	14500	67	13340	73	11710	76	9290
30			50	12120	62	11290	69	10160	73	8330
35			41	9040	57	9200	65	8830	70	7320
40			30	6990	51	7150	60	7240	67	6460
45			11	5510	44	5700	56	5780	63	5730
50					36	4600	51	4690	59	4740
55					27	3750	46	3840	55	3890
60					10	3050	40	3160	51	3210
65							33	2610	47	2660
70							24	2140	42	2200
75							9	1730	37	1800
80									31	1470
85									23	1170
90									9	910
95										
100										
105										
110										
	460 LBS		270 LBS		210 LBS		170 LBS		140 LBS	
	690 LBS		410 LBS		310 LBS		250 LBS		210 LBS	

JIB LOAD RATINGS IN LBS

OPERATING RADIUS FT	FIXED JIB LMI CODE #2 — LOADED BOOM ANG	FIXED JIB LMI CODE #2 — JIB LENGTH FOR ALL BOOM LENGTHS SEE WARNING NOTE 4 ∠	26 FT	TELESCOPIC JIB LMI CODE #3 — LOADED BOOM ANG	TELESCOPIC JIB LMI CODE #3 — JIB LENGTH FOR ALL BOOM LENGTHS SEE WARNING NOTE 4 ∠	26 FT	TELESCOPIC JIB LMI CODE #4 — LOADED BOOM ANG	TELESCOPIC JIB LMI CODE #4 — JIB LENGTH FOR ALL BOOM LENGTHS SEE WARNING NOTE 4 ∠	46 FT
10									
12									
15									
20									
25	79	5600		79	5400				
30	77	5300		77	5100		79	3400	
35	75	4960		75	4700		77	3300	
40	72	4490		72	4230		76	3200	
45	70	4080		70	3820		74	3040	
50	67	3710		67	3440		72	2800	
55	65	3380		65	3100		69	2630	
60	62	3080		62	2810		67	2480	
65	59	2790		59	2500		65	2310	
70	56	2320		56	2030		63	2110	
75	53	1930		53	1640		60	1940	
80	50	1590		50	1300		58	1760	
85	46	1300		46	1010		55	1460	
90	42	1040		42	750		52	1200	
95	38	810		38	520		49	970	
100							46	770	
105							43	580	
110									
	DEDUCTIONS FOR STOWED FIXED JIB								
	DEDUCTIONS FOR STOWED TELESCOPIC JIB								

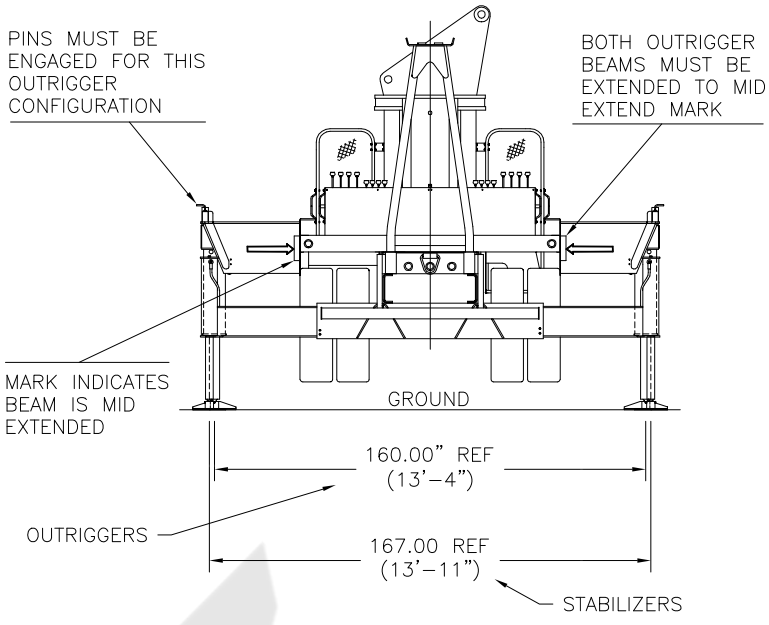
RANGE DIAGRAM
- INTERMEDIATE SPREAD CONFIGURATION -
(MID EXTEND)



OPERATING RADIUS FROM CENTERLINE OF ROTATION IN FEET

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 FRONT OUTRIGGERS ARE IN THE INTERMEDIATE POSITION AND STABILIZERS ARE FULLY EXTENDED



- INTERMEDIATE SPREAD CONFIGURATION - (MID EXTEND)

MAIN BOOM LOAD RATINGS IN LBS

LMI CODE #9

OPERATING RADIUS FT	LOADED BOOM ANGLE / BOOM LENGTH AND MARKER	28 FT	A 47 FT	B 62 FT	C 77 FT	D 92 FT
	∠	∠	∠	∠	∠	∠
5	79	56000				
8	73	40670				
10	69	34520	78 22500			
12	64	30130	76 22500	80 22500		
15	57	21030	72 21550	77 20960	80 15920	
20	43	11830	65 12290	72 12430	77 12520	79 10700
25	22	7610	58 8080	67 8210	73 8290	76 8340
30			50 5670	62 5800	69 5880	73 5920
35			41 4110	57 4240	65 4310	70 4360
40			30 3010	51 3150	60 3220	67 3260
45			11 2170	44 2340	56 2410	63 2450
50				36 1710	51 1780	59 1830
55				27 1210	46 1290	55 1330
60				10 790	40 880	51 930
65						
70						
	460 LBS		270 LBS	210 LBS	170 LBS	140 LBS
	690 LBS		410 LBS	310 LBS	250 LBS	210 LBS

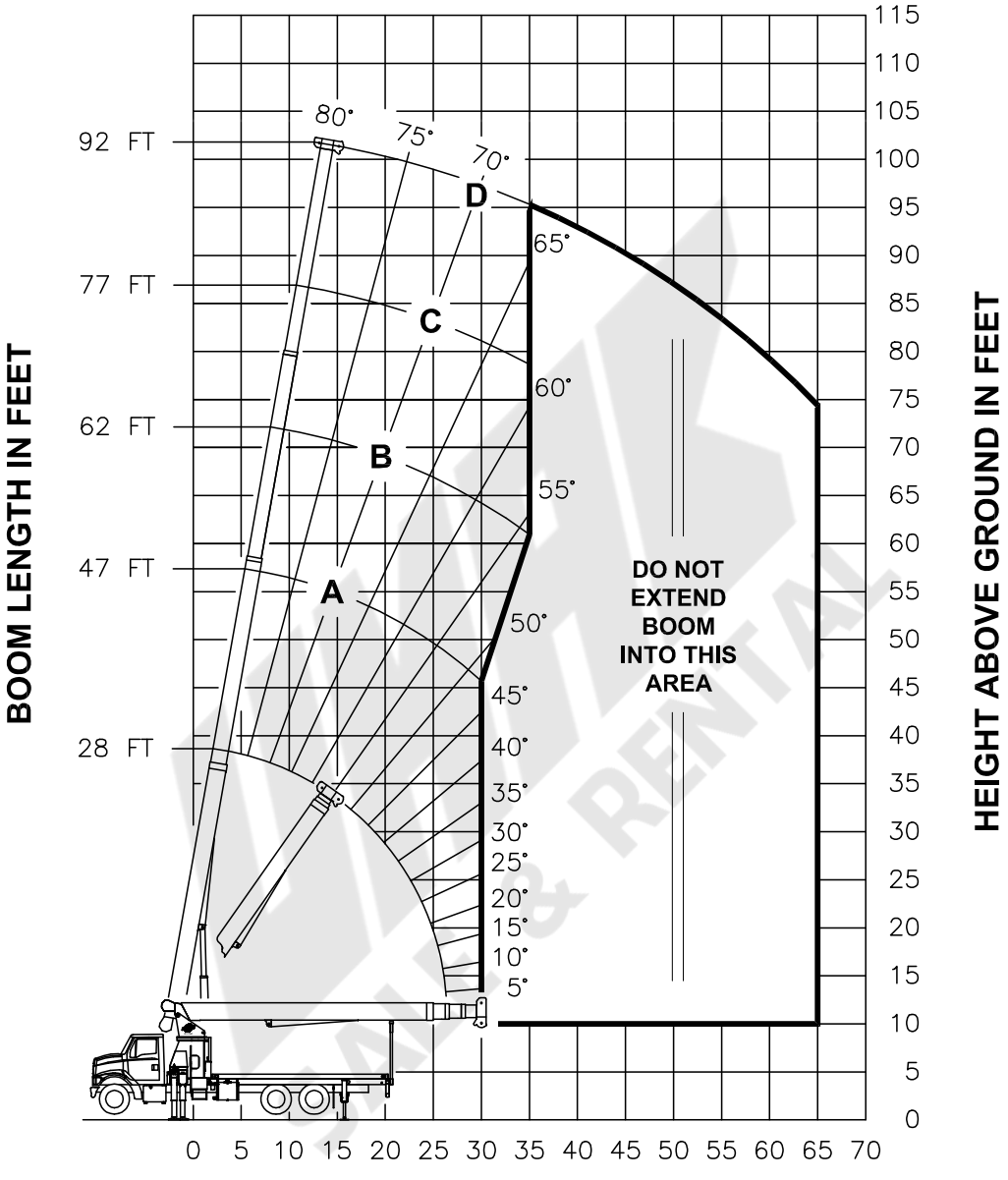
JIB LOAD RATINGS IN LBS

OPERATING RADIUS FT	FIXED JIB LMI CODE #10 LOADED BOOM ANG	FIXED JIB LMI CODE #10 JIB LENGTH FOR ALL BOOM LENGTHS SEE WARNING NOTE 4	TELESCOPIC JIB LMI CODE #11 LOADED BOOM ANG	TELESCOPIC JIB LMI CODE #11 JIB LENGTH FOR ALL BOOM LENGTHS SEE WARNING NOTE 4	TELESCOPIC JIB LMI CODE #12 LOADED BOOM ANG	TELESCOPIC JIB LMI CODE #12 JIB LENGTH FOR ALL BOOM LENGTHS SEE WARNING NOTE 4
	∠	26 FT	∠	26 FT	∠	46 FT
10						
12						
15						
20						
25	79	5600	79	5400		
30	77	5300	77	5100	79	3400
35	75	4460	75	4160	77	3300
40	72	3350	72	3050	76	3200
45	70	2540	70	2230	74	2730
50	67	1910	67	1610	72	2090
55	65	1410	65	1110	69	1580
60	62	1010	62	700	67	1170
65	59	670			65	830
70					63	540

DEDUCTIONS FOR STOWED FIXED JIB

DEDUCTIONS FOR STOWED TELESCOPIC JIB

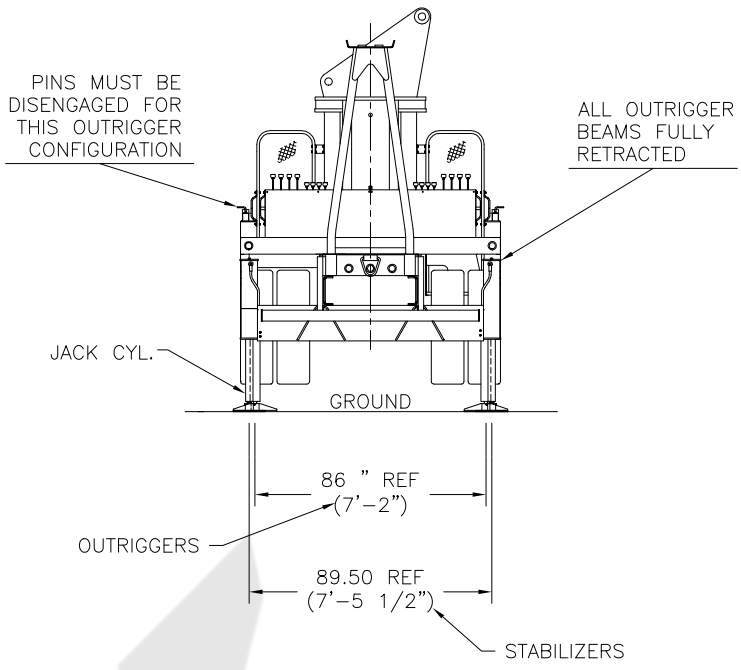
RANGE DIAGRAM
- FULLY RETRACTED SPREAD CONFIGURATION -



OPERATING RADIUS FROM CENTERLINE OF ROTATION IN FEET

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 LOAD RATINGS IN LBS

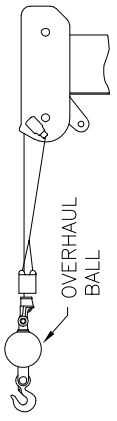
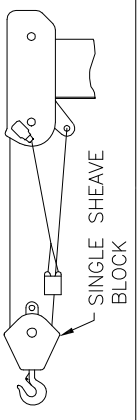
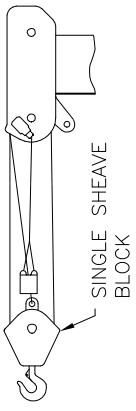
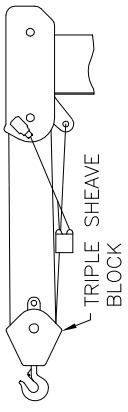
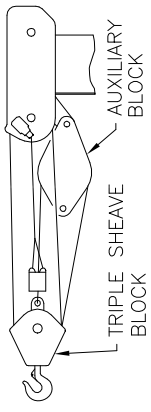
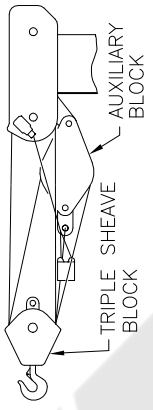
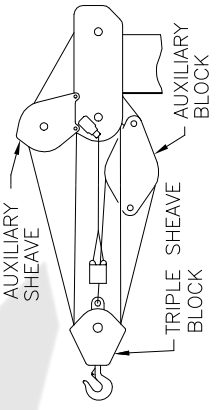
LMI CODE #13

OPERATING RADIUS FT	LOADED BOOM ANGLE / BOOM LENGTH AND MARKER		A		B		C		D	
	∠ °	28 FT	∠ °	47 FT	∠ °	62 FT	∠ °	77 FT	∠ °	92 FT
5	79	56000								
8	73	22380								
10	69	14340	78	14770						
12	64	10120	76	10520	80	10650				
15	57	6570	72	6940	77	7060	80	7130		
20	43	3510	65	3880	72	3990	76	4060	79	4100
25	22	1850	58	2240	67	2350	73	2420	76	2460
30			50	1220	62	1340	69	1400	73	1440
35					57	640	64	700	70	740

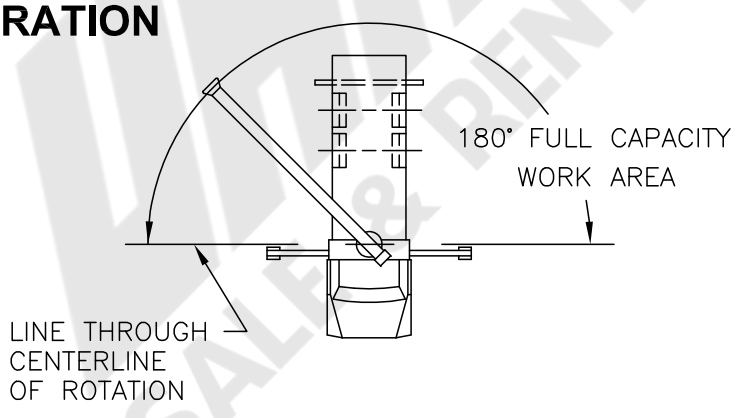
NO JIBS ARE TO BE ERECTED IN THIS OUTRIGGER CONFIGURATION

460 LBS	270 LBS	210 LBS	170 LBS	140 LBS	DEDUCTIONS FOR STOWED FIXED JIB
690 LBS	410 LBS	310 LBS	250 LBS	210 LBS	DEDUCTIONS FOR STOWED TELESCOPIC JIB

ALLOWABLE LINE PULL

1 PART LINE	2 PART LINE	3 PART LINE	4 PART LINE	5 PART LINE	6 PART LINE	7 PART LINE	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.
8500 LBS	17000 LBS	25500 LBS	34000 LBS	42500 LBS	51000 LBS	56000 LBS	9/16" 6X25 IWRC (3.5:1 SF) – 29750 LBS MIN BREAKING STRENGTH
7700 LBS	15400 LBS	23100 LBS	30800 LBS	38500 LBS	46200 LBS	53900 LBS	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.

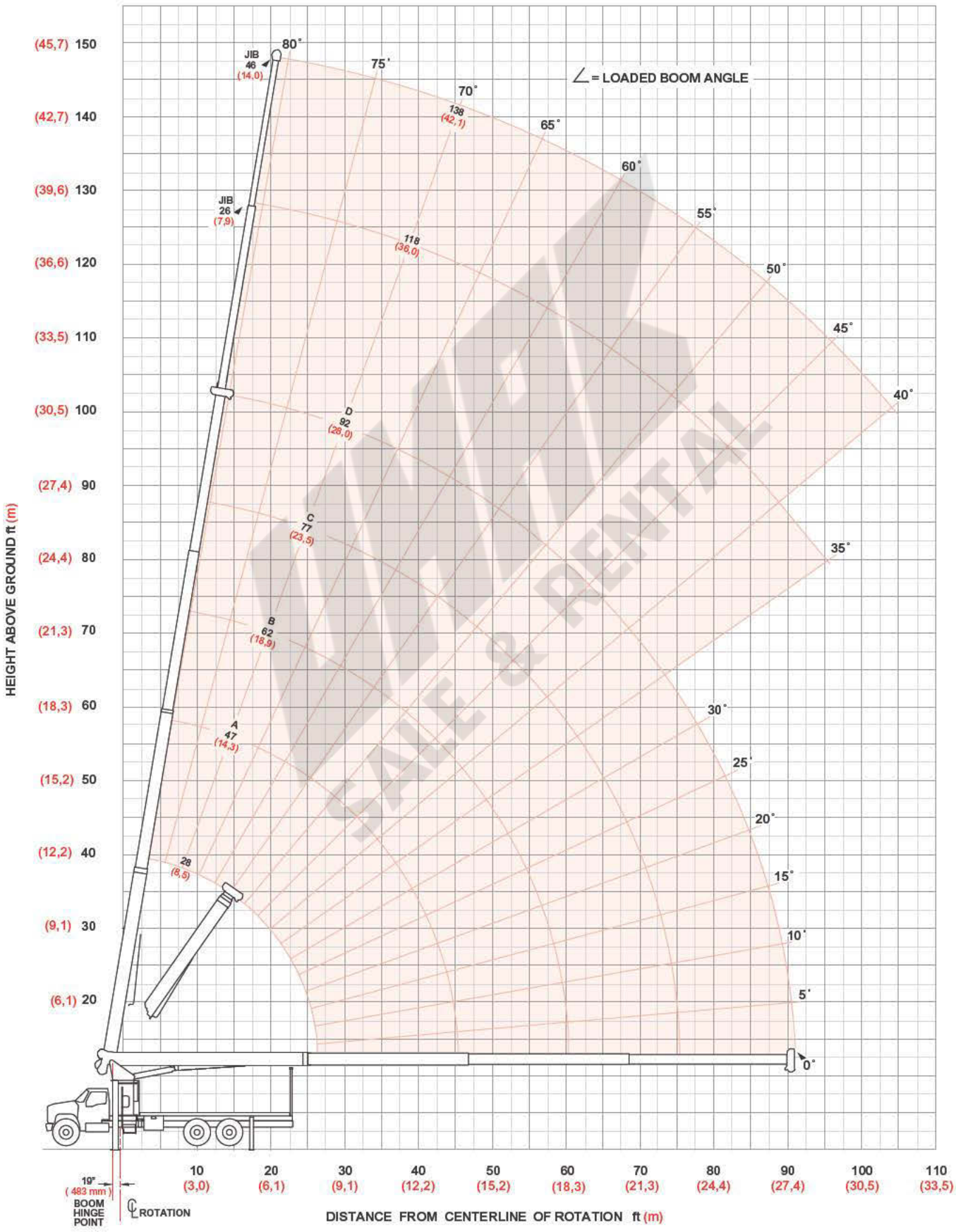
2. LOADED BOOM ANGLE AS SHOWN IN THE COLUMN HEADED BY ∠°, IS THE INCLUDED ANGLE BETWEEN THE HORIZONTAL AND LONGITUDINAL AXES OF THE BOOM BASE AFTER LIFTING RATED LOAD AT RATED RADIUS.

LIFTING CHARTS - Boom Trucks

MANITOWOC MODEL 2892C - 28 TON CAPACITY

boom/jib range diagram

2892C-LMI Range Diagram



boom/jib load charts

2892C-LMI Load Ratings

Boom/Jib ft (m)	28 (8,5)		A 47 (14,3)		B 62 (18,9)		C 77 (23,5)		D 92 (28,0)		Boom/Jib ft (m)
Operating Radius ft (m)	∠	lb (kg)	∠	lb (kg)	∠	lb (kg)	∠	lb (kg)	∠	lb (kg)	Operating Radius ft (m)
5 (1,5)	79°	56,000 (25 401)									5 (1,5)
8 (2,4)	72°	41,560 (18 851)									8 (2,4)
10 (3,1)	68°	35,030 (15 889)	78°	20,500 (9 299)							10 (3,1)
12 (3,7)	63°	30,330 (13 757)	75°	20,500 (9 299)	79°	20,500 (9 299)					12 (3,7)
15 (4,6)	56°	25,230 (11 444)	71°	20,500 (9 299)	77°	20,500 (9 299)	80°	15,900 (7 212)			15 (4,6)
20 (6,1)	42°	19,300 (8 754)	65°	17,780 (8 065)	72°	16,780 (7 611)	76°	13,540 (6 142)	79°	10,200 (4 627)	20 (6,1)
25 (7,6)	21°	13,760 (6 241)	58°	14,460 (6 559)	67°	13,610 (6 173)	73°	11,710 (5 312)	76°	9,290 (4 214)	25 (7,6)
30 (9,1)			50°	11,810 (5 357)	62°	11,390 (5 166)	69°	10,160 (4 608)	73°	8,330 (3 778)	30 (9,1)
35 (10,7)			41°	8,800 (3 992)	56°	8,960 (4 064)	64°	8,830 (4 005)	70°	7,320 (3 320)	35 (10,7)
40 (12,2)			30°	6,800 (3 084)	50°	6,950 (3 152)	60°	7,040 (3 193)	66°	6,460 (2 930)	40 (12,2)
45 (13,7)			10°	5,350 (2 427)	43°	5,530 (2 508)	55°	5,610 (2 545)	63°	5,660 (2 567)	45 (13,7)
50 (15,2)					36°	4,460 (2 023)	51°	4,540 (2 059)	59°	4,590 (2 082)	50 (15,2)
55 (16,8)					26°	3,620 (1 642)	45°	3,710 (1 683)	55°	3,760 (1 706)	55 (16,8)
60 (18,3)					9°	2,940 (1 334)	39°	3,050 (1 383)	51°	3,100 (1 406)	60 (18,3)
65 (19,8)							33°	2,500 (1 134)	47°	2,550 (1 157)	65 (19,8)
70 (21,3)							24°	2,050 (930)	42°	2,100 (953)	70 (21,3)
75 (22,9)							8°	1,650 (748)	36°	1,720 (780)	75 (22,9)
80 (24,4)									30°	1,390 (630)	80 (24,4)
85 (25,9)									22°	1,100 (499)	85 (25,9)
90 (27,4)									8°	840 (381)	90 (27,4)
95 (29,0)											95 (29,0)
100 (30,5)											100 (30,5)
105 (32,0)											105 (32,0)
Deduction*		460 (209)		270 (122)		210 (95)		170 (77)		140 (64)	
Deduction**		690 (313)		410 (186)		310 (141)		250 (113)		210 (95)	

2892C-LMI Jib Load Ratings

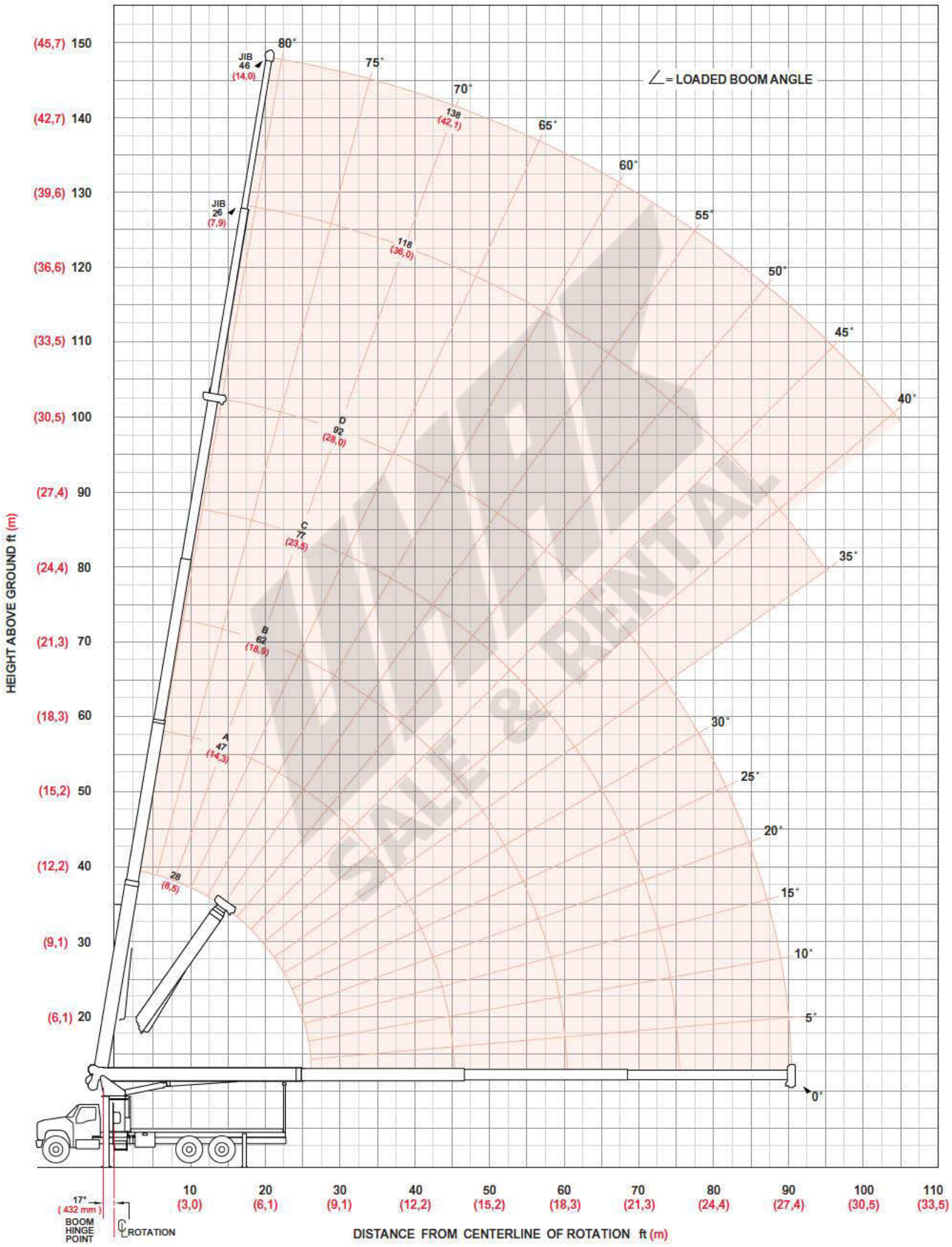
Boom/Jib ft (m)	Fixed Jib 26 (7,9)		Telescopic Jib 26 (7,9)		46 (14,0)		Boom/Jib ft (m)
Operating Radius ft (m)	∠	lb (kg)	∠	lb (kg)	∠	lb (kg)	Operating Radius ft (m)
25 (7,6)	79°	5,600 (2 540)	79°	5,400 (2 449)			25 (7,6)
30 (9,1)	77°	5,300 (2 404)	77°	5,100 (2 313)	79°	3,400 (1 542)	30 (9,1)
35 (10,7)	75°	4,960 (2 250)	75°	4,700 (2 132)	77°	3,300 (1 497)	35 (10,7)
40 (12,2)	72°	4,490 (2 037)	72°	4,230 (1 919)	76°	3,200 (1 451)	40 (12,2)
45 (13,7)	70°	4,080 (1 851)	70°	3,820 (1 733)	74°	3,040 (1 379)	45 (13,7)
50 (15,2)	67°	3,710 (1 683)	67°	3,440 (1 560)	72°	2,800 (1 270)	50 (15,2)
55 (16,8)	65°	3,380 (1 533)	65°	3,100 (1 406)	69°	2,630 (1 193)	55 (16,8)
60 (18,3)	62°	3,080 (1 397)	62°	2,810 (1 275)	67°	2,480 (1 125)	60 (18,3)
65 (19,8)	59°	2,690 (1 229)	59°	2,400 (1 089)	65°	2,310 (1 048)	65 (19,8)
70 (21,3)	56°	2,230 (1 012)	56°	1,940 (880)	63°	2,110 (957)	70 (21,3)
75 (22,9)	53°	1,850 (839)	53°	1,560 (708)	60°	1,940 (880)	75 (22,9)
80 (24,4)	50°	1,510 (685)	50°	1,220 (553)	58°	1,680 (762)	80 (24,4)
85 (25,9)	46°	1,230 (558)	46°	940 (426)	55°	1,390 (630)	85 (25,9)
90 (27,4)	42°	980 (445)	42°	680 (308)	52°	1,140 (517)	90 (27,4)
95 (29,0)	38°	750 (340)	38°	460 (209)	49°	910 (413)	95 (29,0)
100 (30,5)					46°	710 (322)	100 (30,5)
105 (32,0)					43°	530 (240)	105 (32,0)

*for stowed fixed jib

**for stowed telescopic jib

boom/jib range diagram

2892C-HYCAS Range Diagram



boom/jib load charts

2892C-HYCAS Load Ratings

2892C-HYCAS Jib Load Ratings

			A		B		C		D		Fixed Jib				
Boom/Jib ft (m)	28 (8,5)		47 (14,3)		62 (18,9)		77 (23,5)		92 (28,0)		26 (7,9)		46 (14,0)		Boom/Jib ft (m)
Operating Radius ft (m)	∠	lb (kg)	∠	lb (kg)	∠	lb (kg)	∠	lb (kg)	∠	lb (kg)	∠	lb (kg)	∠	lb (kg)	Operating Radius ft (m)
5 (1,5)	79°	56,000 (25 402)													5 (1,5)
8 (2,4)	73°	40,670 (18 448)													8 (2,4)
10 (3,1)	69°	34,520 (15 658)	78°	22,500 (10 206)											10 (3,1)
12 (3,7)	64°	30,130 (13 667)	76°	21,510 (9 757)	80°	20,400 (9 253)									12 (3,7)
15 (4,6)	57°	25,430 (11 535)	72°	17,730 (8 042)	77°	16,660 (7 557)	80°	15,920 (7 221)							15 (4,6)
20 (6,1)	43°	20,130 (9 131)	65°	13,720 (6 223)	72°	12,720 (5 770)	77°	12,030 (5 457)	79°	10,700 (4 854)					20 (6,1)
25 (7,6)	22°	15,630 (7 090)	58°	11,160 (5 062)	67°	10,240 (4 645)	73°	9,600 (4 355)	76°	9,120 (4 137)	79°	5,400 (2 449)			25 (7,6)
30 (9,1)			50°	9,330 (4 232)	62°	8,530 (3 869)	69°	7,930 (3 597)	73°	7,460 (3 384)	77°	5,100 (2 313)	79°	3,400 (1 542)	30 (9,1)
35 (10,7)			41°	7,900 (3 583)	57°	7,240 (3 284)	65°	6,680 (3 030)	70°	6,250 (2 835)	75°	4,700 (2 132)	77°	3,300 (1 497)	35 (10,7)
40 (12,2)			30°	6,580 (2 985)	51°	6,230 (2 826)	60°	5,730 (2 599)	67°	5,330 (2 418)	72°	4,230 (1 919)	76°	3,200 (1 452)	40 (12,2)
45 (13,7)			11°	4,740 (2 150)	44°	5,380 (2 440)	56°	4,960 (2 250)	63°	4,580 (2 077)	70°	3,630 (1 647)	72°	3,040 (1 379)	45 (13,7)
50 (15,2)					36°	4,620 (2 096)	51°	4,330 (1 964)	59°	3,980 (1 805)	67°	3,060 (1 388)	72°	2,800 (1 270)	50 (15,2)
55 (16,8)					27°	3,760 (1 706)	46°	3,770 (1 710)	55°	3,470 (1 574)	64°	2,580 (1 170)	69°	2,630 (1 193)	55 (16,8)
60 (18,3)					10°	2,670 (1 211)	40°	3,170 (1 438)	51°	3,040 (1 379)	62°	2,180 (989)	67°	2,420 (1 098)	60 (18,3)
65 (19,8)							33°	2,610 (1 184)	47°	2,650 (1 202)	59°	1,830 (830)	65°	2,080 (943)	65 (19,8)
70 (21,3)							24°	2,140 (971)	42°	2,200 (998)	56°	1,530 (694)	62°	1,800 (816)	70 (21,3)
75 (22,9)							9°	1,430 (649)	37°	1,800 (816)	53°	1,260 (572)	60°	1,540 (699)	75 (22,9)
80 (24,4)									31°	1,460 (662)	49°	1,020 (463)	57°	1,320 (599)	80 (24,4)
85 (25,9)									23°	1,170 (531)	46°	800 (363)	55°	1,110 (503)	85 (25,9)
90 (27,4)											42°	580 (263)	52°	930 (422)	90 (27,4)
95 (29,0)											38°	380 (172)	49°	750 (340)	95 (29,0)
100 (30,5)													46°	600 (272)	100 (30,5)
105 (32,0)													43°	440 (200)	105 (32,0)
Deduction*		460 (209)		270 (122)		210 (95)		170 (77)		140 (64)					
Deduction**		690 (313)		410 (186)		310 (141)		250 (113)		210 (95)					

*for stowed fixed jib

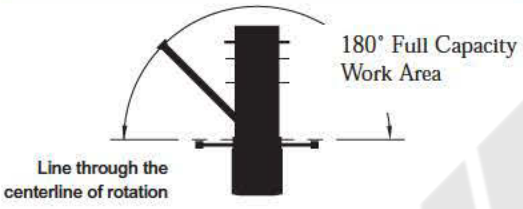
**for stowed telescopic jib

load chart data

Deductions

Auxiliary Block	50 lb (23 kg)
Auxiliary Sheave	50 lb (23 kg)
Overhaul Ball	See manufacturer's nameplate
Load Block	See manufacturer's nameplate
Hose Reel	140 lb (64 kg)
Swing-Around Jib	See load rating chart

Area of Operation



Allowable Line Pull

1 Part Line	2 Part Line	3 Part Line	4 Part Line	5 Part Line	6 Part Line	7 Part Line
						
7,400 lb (3 357 kg)	**14,800 lb (6 713 kg)**	**22,200 lb (10 070 kg)**	**29,600 lb (13 426 kg)**	**37,000 lb (16 783 kg)**	**44,400 lb (20 140 kg)**	**51,800 lb (23 496 kg)**
8,500 lb (3 856 kg)	**17,000 lb (7 711 kg)**	**25,500 lb (11 567 kg)**	**34,000 lb (15 422 kg)**	**42,500 lb (19 278 kg)**	**51,000 lb (23 133 kg)**	**56,000 lb (25 401 kg)**

9/16" 6 x 25 IWRC (3.5:1 SF) – 29,750 lb Min Breaking Strength
9/16" Rotation Resistant (5.0:1 SF) – 37,000 lb Min Breaking Strength

Warning

Anti-two-block system must be in good operating condition before operating crane. Refer to the owner's manual. Keep at least three wraps of load line on the drum at all times.

specifications

Upperworks

Boom

Boom – Inverted T-cross section, 4-section telescoping type, extended and retracted proportionally by double-acting hydraulic cylinder and cable-crowd system. Easily replaceable and adjustable high-density nylon slide pads. 2892C-LMI & HYCAS – 4-section 28' (8,5 m) to 92' (28,0 m). Maximum main boom tip height 103' (31,4 m). 2-section, 26' (7,9 m) to 46' (14,0 m) jib. Maximum tip height 149' 1" (45,4 m).

Boom Points – Three high-density nylon sheaves mounted on heavy-duty roller bearings. Two removable pin-type rope guards. Quick-reeve boom point.

Boom Elevation – Double-acting hydraulic cylinder. Working range from 9° below horizontal to 80.6° above.

Hoist

Hoist – Maximum theoretical line speed 247 fpm (75,3 mpm). Maximum theoretical bottom-layer line pull 12,000 lbs (5 443 kg). Two-speed planetary reducer. Spring-applied, pressure-released internal brake. Wet multi-disc internal brake is spring-applied, pressure-released.

Wire Rope – 300' (91,4 m) of 9/16" (14,3 mm) diameter 6 x 25 EIPS IWRC.

Swing System

Externally mounted, double-reduction planetary driven by hydraulic motor. Maximum theoretical swing speed 1.5 rpm. Spring-applied, pressure-released parking brake. Ball-bearing swing circle with external gear. 372° non-continuous rotation.

Outriggers

A-frame link type with double-acting hydraulic cylinders operated independently for precise leveling. Bubble level located near outrigger controls.

Mounting

Mounting – Pedestal and subframe are mounted to chassis by threaded rods and clamp plates. No welding to truck chassis is required.

Stabilizers – Underframe out-and-down type with double-acting hydraulic cylinders operated independently for precise leveling.

Subframe – Torsion resistant, rigid 4-plate design, and mounted under crane full length of truck frame.

Rear Underride Protection – Supplied on factory mounted cranes. Fabricated structure mounted under rear of bed. Complies with Bureau of Motor Carrier Safety Standard 393.86.

Boom Rest – Heavy-duty, removable.

Control System

Dual operator platforms are equipped with four single-lever crane controls arranged to ANSI B30.5 standards. Fully proportional control valves and system pressure gauge. Each station also includes outrigger and stabilizer controls, engine start/stop, foot throttle, signal horn, boom-angle indicator, bubble levels, load chart, range diagram and audio and/or visual indicators to warn operator of overload condition.

Hydraulics

Hydraulic System – A 3-section vane pump direct-mounted to power take-off on truck transmission provides 35 gpm (133 lpm) to the hoist, 8 gpm (30 lpm) to the swing circuit and 18 gpm (68 lpm) to other crane functions. 70-gallon (265-liter) baffled reservoir includes suction ball valve with strainer and 25-micron filter in the return line. Use of SAE O-ring and face seal O-ring hydraulic fittings throughout system.

Hydraulic Cylinders – All load-holding cylinders are equipped with integral holding valves.

Warning Systems

Anti-Two-Block System – Audible warning and shutoff functions prevent hook from contacting boom point.

Back-Up Alarm – Electronic audible motion alarm activated when truck transmission is in reverse gear.

Load Moment Indicator – Senses boom hoist cylinder pressure, boom length and boom angle. Audio-visual warning indicates overload conditions and overload shutoff feature prevents continuing overload. Operator can access all relative crane configuration and load conditions via display at the operator station.

General

Electrical – State-of-the-art, weather-resistant components throughout. Automotive style electrical system for easy installation. Designed to withstand high pressure washing and varying climates.

specifications

Design/Welding – Design conforms to ANSI B30.5. Welding conforms to AWS D1.1. Tested to SAE 1063 and SAE 765.

Manuals – Operator, service and parts manuals depict correct crane operation, maintenance procedures and parts listing.

Warranty – 12-month warranty covers parts and labor resulting from defects in material and workmanship.

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 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.

10. Lifting off the main boom point while the swing-around jib is erected is not intended or approved.

11. All load ratings above the heavy line are based on machine structural competence and do not exceed 85% of tipping. Load ratings below are stability limited and do not exceed 85% of tipping.

12. Do not operate a Manitowoc truck-mounted crane or accessories within 10' (3,05 m) of live power lines.

13. This capacity chart is for reference only and must not be used for specific serial number cranes.

Information

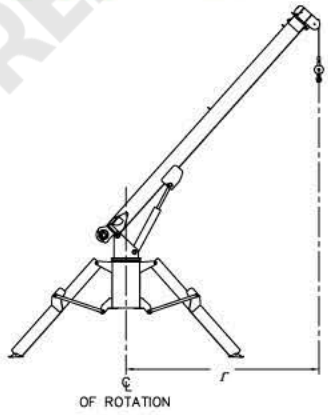
1. Deductions must be made from rated loads for stowed jib, optional attachments, hooks, and loadblocks (see deduction chart). Weights of slings and all other load-handling devices shall be considered a part of the load.

2. Crane load ratings with outriggers are based on outriggers and stabilizers extended and set with machine leveled.

3. 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.

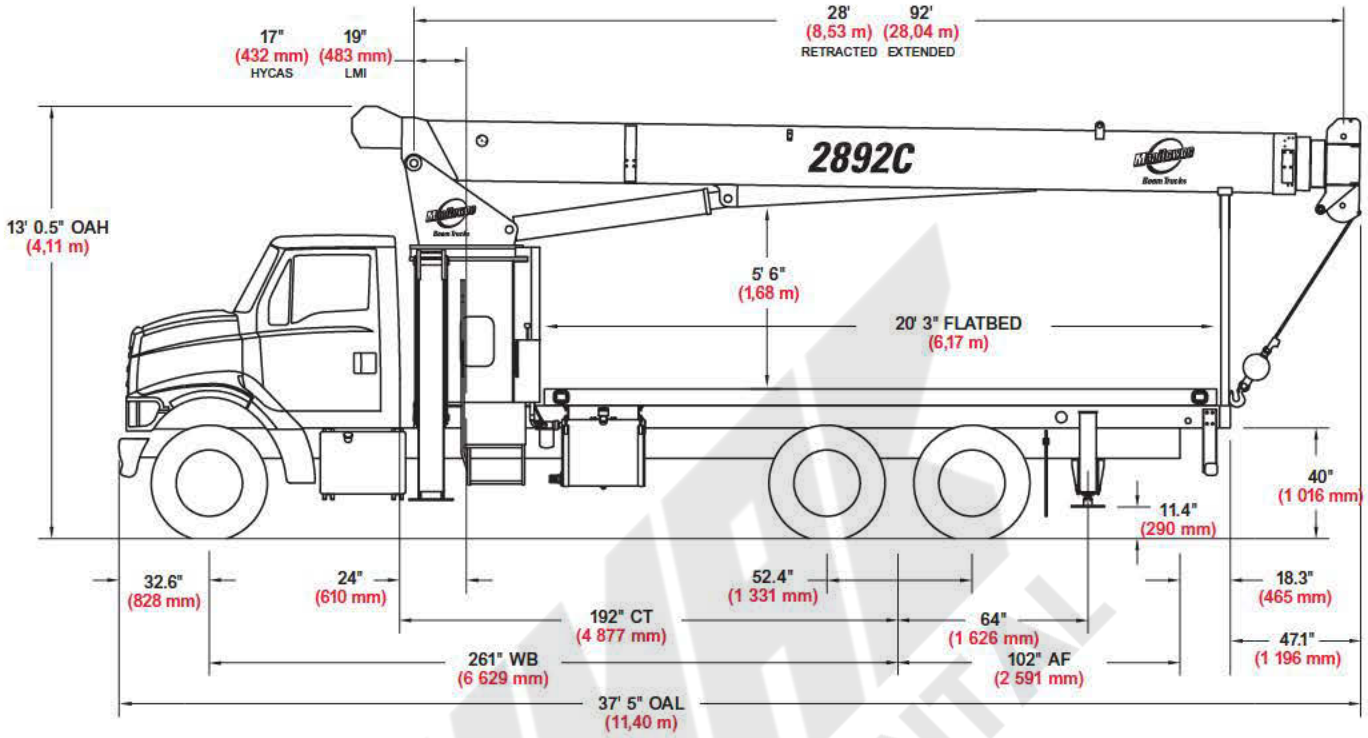
Definitions

1. Operating radius (r) is the horizontal distance from the axis of rotation to the center of the vertical hoist line or tackle with load applied (see below).



2. Loaded boom angle (∠), as shown in the load chart columns headed by ∠, is the included angle between the horizontal and longitudinal axis of the boom base after lifting rated load at rated radius (see below).

outline dimensions



Chassis Data

Minimum Truck Requirements	2892C
Wheelbase (WB)	249" (6 325 mm)
Cab to Tandem (CT)	180" (4 527 mm)
After Frame (AF)	102" (2 591 mm)
Frame Section Modulus	20.0 in³ 110,000 psi (758 422 kPa)
Front Axle Gross Weight Rating	16,000 lb (7 257 kg)
Rear Axle Gross Weight Rating	34,000 lb (15 422 kg)
Minimum Truck Axle Weight – Front*	8,500 lb (3 856 kg)
Minimum Truck Axle Weight – Back*	8,150 lb (3 697 kg)
Nominal Frame Width	34" (864 mm)

Weights

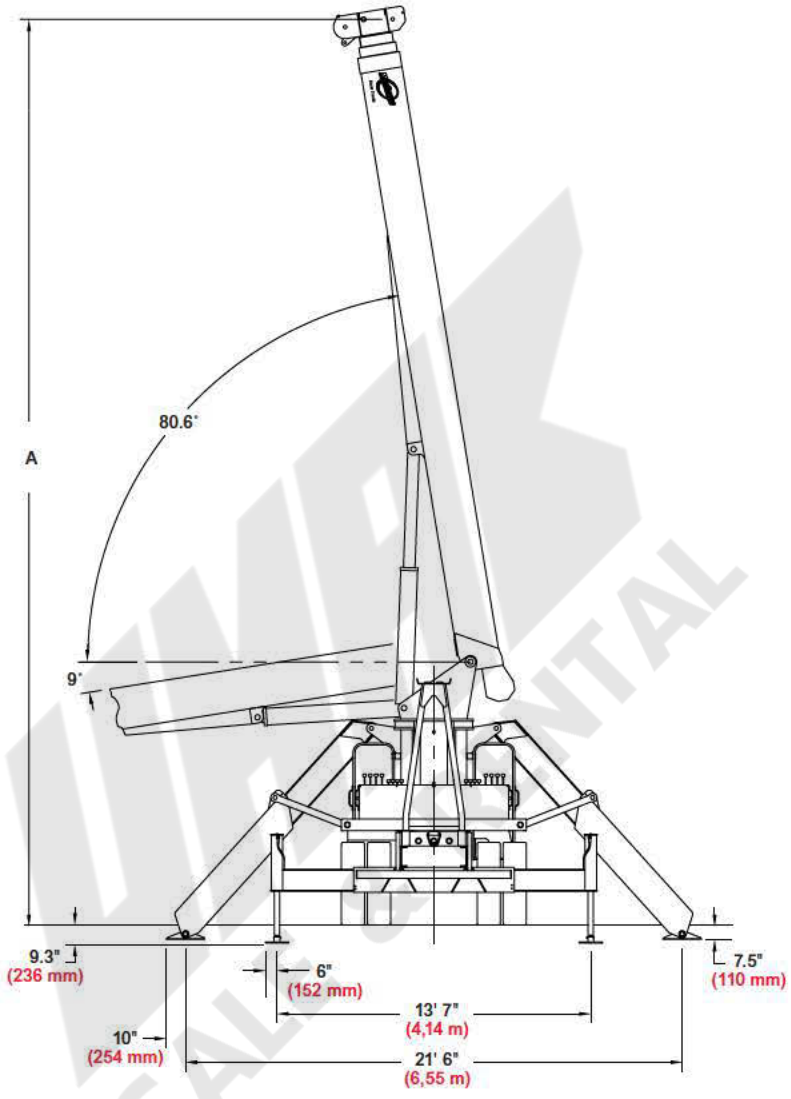
	2892C
Total Crane - Standard	20,462 lb (9 282 kg)
Total Crane - Out-and-Down Outriggers (Out and Down outrigger configuraton only avialable on LMI unit)	24,612 lb (11 164 kg)
20' (6,10 m) Flat Bed - Standard Outriggers	1,840 lb (835 kg)
22' (6,71 m) Flat Bed - Out-and-Down Outriggers	2,000 lb (907 kg)
26' (7,93 m) Fixed Length Jib	832 lb (377 kg)
26'-46' (7,93 m-14,02 m) Telescopic Jib	1,226 lb (556 kg)

*Minimum chassis weight is required to meet 85% stability requirements.

Chassis data is general – not for engineering. Some dimensions depend on truck selection.

OAH Overall Height
CT Cab to Tandem
CA Cab to Axle
WB Wheel Base
OAL Overall Length
BBC Bumper to Back of Cab
AF Afterframe

outline dimensions



Maximum Tip Height (A)

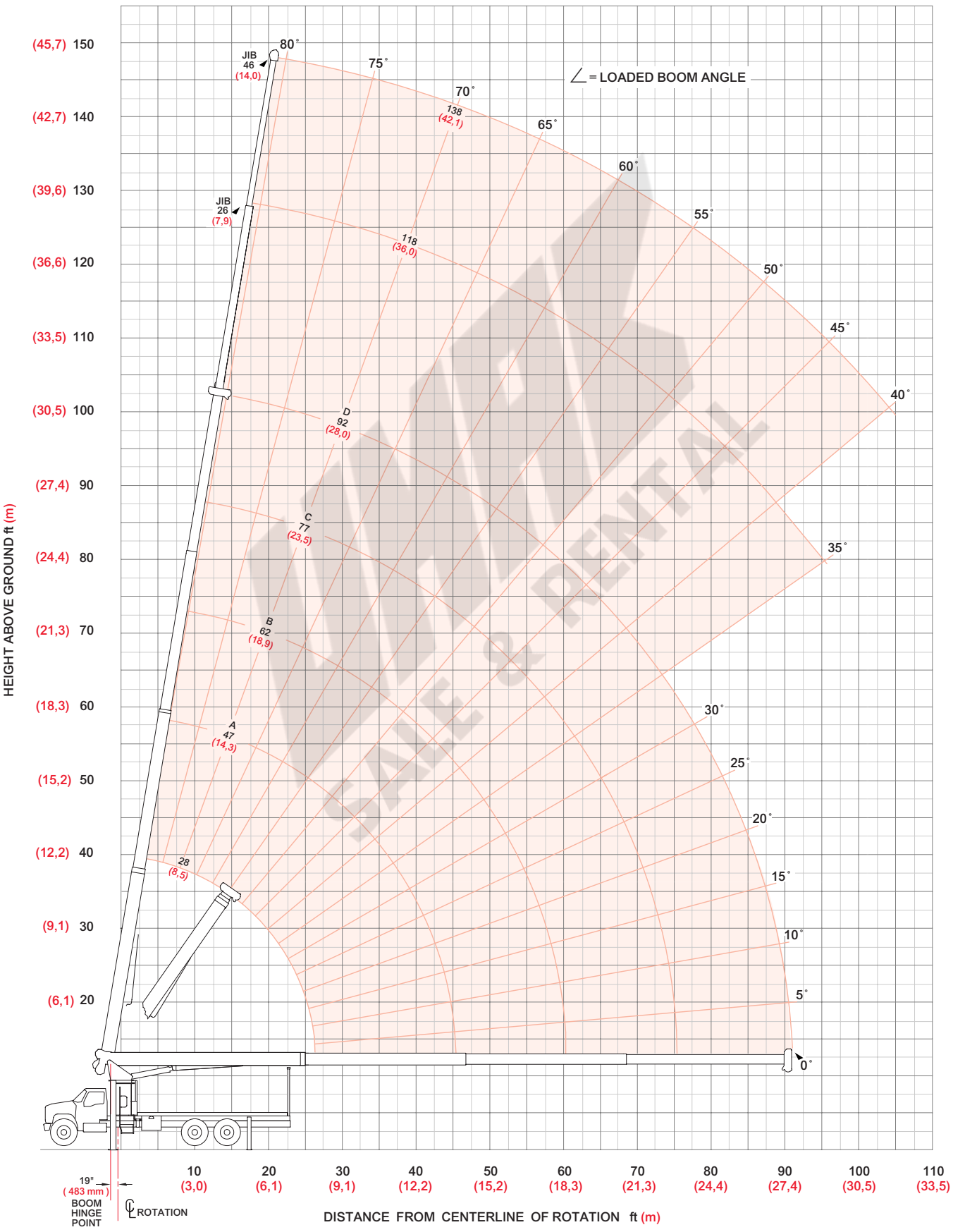
Configuration	2892C Boom 92' (28,0 m)
Extended Boom	103' (31,4 m)
Fixed or Retracted Jib	129' 4" (39,4 m)
Extended Jib	149' (45,4 m)

LIFTING CHARTS - Boom Trucks

MANITOWOC MODEL 2892C - 28 TON CAPACITY

boom/jib range diagram

2892C-LMI Range Diagram



boom/jib load charts

2892C-LMI Load Ratings

Boom/Jib ft (m)	28 (8,5)		47 (14,3)		62 (18,9)		77 (23,5)		92 (28,0)		Boom/Jib ft (m)
	A		A		B		C		D		
Operating Radius ft (m)	∠	lb (kg)	∠	lb (kg)	∠	lb (kg)	∠	lb (kg)	∠	lb (kg)	Operating Radius ft (m)
5 (1,5)	79°	56,000 (25 401)									5 (1,5)
8 (2,4)	72°	41,560 (18 851)									8 (2,4)
10 (3,1)	68°	35,030 (15 889)	78°	20,500 (9 299)							10 (3,1)
12 (3,7)	63°	30,330 (13 757)	75°	20,500 (9 299)	79°	20,500 (9 299)					12 (3,7)
15 (4,6)	56°	25,230 (11 444)	71°	20,500 (9 299)	77°	20,500 (9 299)	80°	15,900 (7 212)			15 (4,6)
20 (6,1)	42°	19,300 (8 754)	65°	17,780 (8 065)	72°	16,780 (7 611)	76°	13,540 (6 142)	79°	10,200 (4 627)	20 (6,1)
25 (7,6)	21°	13,760 (6 241)	58°	14,460 (6 559)	67°	13,610 (6 173)	73°	11,710 (5 312)	76°	9,290 (4 214)	25 (7,6)
30 (9,1)			50°	11,810 (5 357)	62°	11,390 (5 166)	69°	10,160 (4 608)	73°	8,330 (3 778)	30 (9,1)
35 (10,7)			41°	8,800 (3 992)	56°	8,960 (4 064)	64°	8,830 (4 005)	70°	7,320 (3 320)	35 (10,7)
40 (12,2)			30°	6,800 (3 084)	50°	6,950 (3 152)	60°	7,040 (3 193)	66°	6,460 (2 930)	40 (12,2)
45 (13,7)			10°	5,350 (2 427)	43°	5,530 (2 508)	55°	5,610 (2 545)	63°	5,660 (2 567)	45 (13,7)
50 (15,2)					36°	4,460 (2 023)	51°	4,540 (2 059)	59°	4,590 (2 082)	50 (15,2)
55 (16,8)					26°	3,620 (1 642)	45°	3,710 (1 683)	55°	3,760 (1 706)	55 (16,8)
60 (18,3)					9°	2,940 (1 334)	39°	3,050 (1 383)	51°	3,100 (1 406)	60 (18,3)
65 (19,8)							33°	2,500 (1 134)	47°	2,550 (1 157)	65 (19,8)
70 (21,3)							24°	2,050 (930)	42°	2,100 (953)	70 (21,3)
75 (22,9)							8°	1,650 (748)	36°	1,720 (780)	75 (22,9)
80 (24,4)									30°	1,390 (630)	80 (24,4)
85 (25,9)									22°	1,100 (499)	85 (25,9)
90 (27,4)									8°	840 (381)	90 (27,4)
95 (29,0)											95 (29,0)
100 (30,5)											100 (30,5)
105 (32,0)											105 (32,0)
Deduction*		460 (209)		270 (122)		210 (95)		170 (77)		140 (64)	
Deduction**		690 (313)		410 (186)		310 (141)		250 (113)		210 (95)	

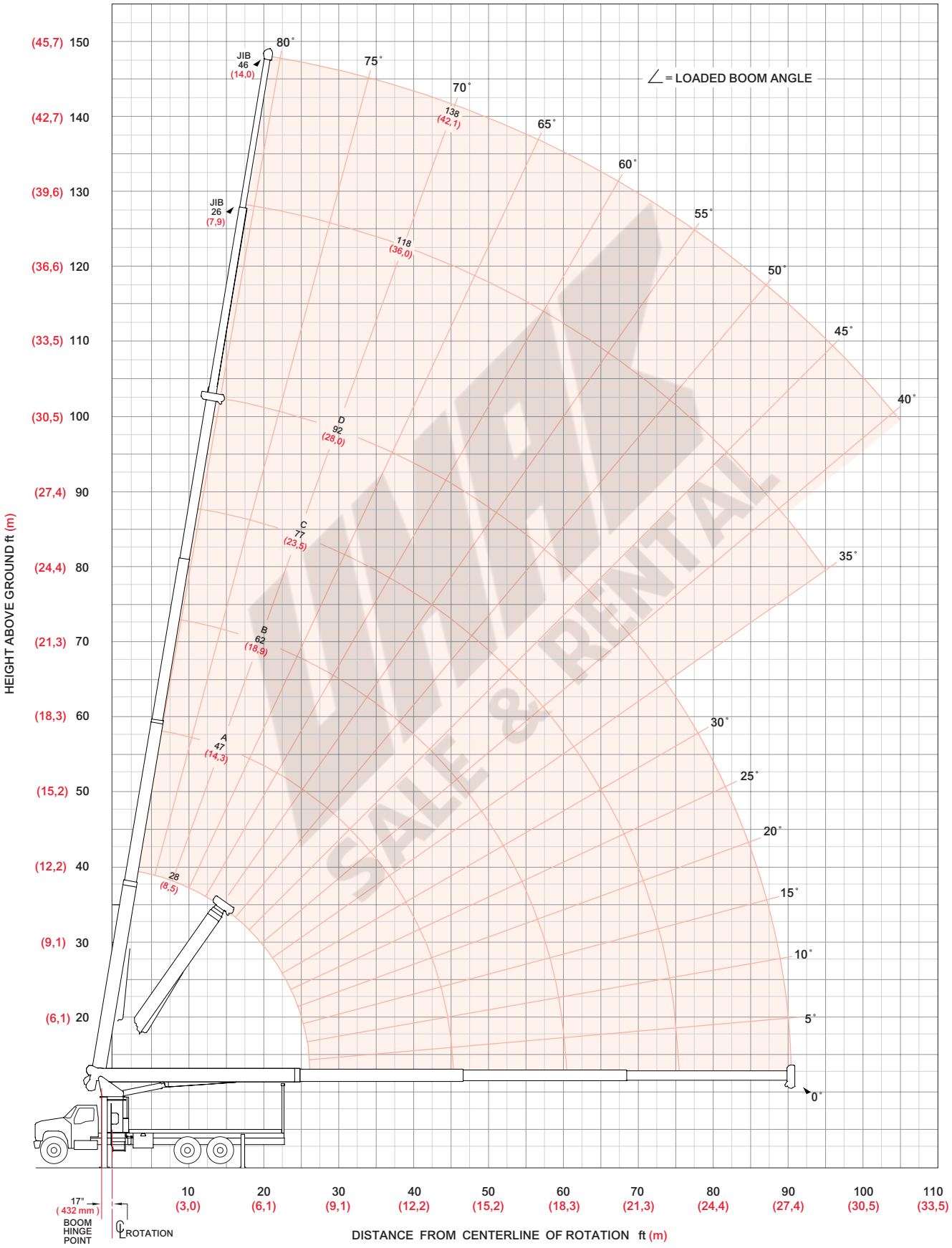
2892C-LMI Jib Load Ratings

Boom/Jib ft (m)	Fixed Jib 26 (7,9)		Telescopic Jib 26 (7,9)		Telescopic Jib 46 (14,0)		Boom/Jib ft (m)
Operating Radius ft (m)	∠	lb (kg)	∠	lb (kg)	∠	lb (kg)	Operating Radius ft (m)
25 (7,6)	79°	5,600 (2 540)	79°	5,400 (2 449)			25 (7,6)
30 (9,1)	77°	5,300 (2 404)	77°	5,100 (2 313)	79°	3,400 (1 542)	30 (9,1)
35 (10,7)	75°	4,960 (2 250)	75°	4,700 (2 132)	77°	3,300 (1 497)	35 (10,7)
40 (12,2)	72°	4,490 (2 037)	72°	4,230 (1 919)	76°	3,200 (1 451)	40 (12,2)
45 (13,7)	70°	4,080 (1 851)	70°	3,820 (1 733)	74°	3,040 (1 379)	45 (13,7)
50 (15,2)	67°	3,710 (1 683)	67°	3,440 (1 560)	72°	2,800 (1 270)	50 (15,2)
55 (16,8)	65°	3,380 (1 533)	65°	3,100 (1 406)	69°	2,630 (1 193)	55 (16,8)
60 (18,3)	62°	3,080 (1 397)	62°	2,810 (1 275)	67°	2,480 (1 125)	60 (18,3)
65 (19,8)	59°	2,690 (1 229)	59°	2,400 (1 089)	65°	2,310 (1 048)	65 (19,8)
70 (21,3)	56°	2,230 (1 012)	56°	1,940 (880)	63°	2,110 (957)	70 (21,3)
75 (22,9)	53°	1,850 (839)	53°	1,560 (708)	60°	1,940 (880)	75 (22,9)
80 (24,4)	50°	1,510 (685)	50°	1,220 (553)	58°	1,680 (762)	80 (24,4)
85 (25,9)	46°	1,230 (558)	46°	940 (426)	55°	1,390 (630)	85 (25,9)
90 (27,4)	42°	980 (445)	42°	680 (308)	52°	1,140 (517)	90 (27,4)
95 (29,0)	38°	750 (340)	38°	460 (209)	49°	910 (413)	95 (29,0)
100 (30,5)					46°	710 (322)	100 (30,5)
105 (32,0)					43°	530 (240)	105 (32,0)

*for stowed fixed jib
**for stowed telescopic jib

boom/jib range diagram

2892C-HYCAS Range Diagram



boom/jib load charts

2892C-HYCAS Load Ratings

2892C-HYCAS Jib Load Ratings

			A		B		C		D		Fixed Jib				
Boom/Jib ft (m)	28 (8,5)		47 (14,3)		62 (18,9)		77 (23,5)		92 (28,0)		26 (7,9)		46 (14,0)		Boom/Jib ft (m)
Operating Radius ft (m)	∠	lb (kg)	∠	lb (kg)	∠	lb (kg)	∠	lb (kg)	∠	lb (kg)	∠	lb (kg)	∠	lb (kg)	Operating Radius ft (m)
5 (1,5)	79°	56,000 (25 402)													5 (1,5)
8 (2,4)	73°	40,670 (18 448)													8 (2,4)
10 (3,1)	69°	34,520 (15 658)	78°	22,500 (10 206)											10 (3,1)
12 (3,7)	64°	30,130 (13 667)	76°	21,510 (9 757)	80°	20,400 (9 253)									12 (3,7)
15 (4,6)	57°	25,430 (11 535)	72°	17,730 (8 042)	77°	16,660 (7 557)	80°	15,920 (7 221)							15 (4,6)
20 (6,1)	43°	20,130 (9 131)	65°	13,720 (6 223)	72°	12,720 (5 770)	77°	12,030 (5 457)	79°	10,700 (4 854)					20 (6,1)
25 (7,6)	22°	15,630 (7 090)	58°	11,160 (5 062)	67°	10,240 (4 645)	73°	9,600 (4 355)	76°	9,120 (4 137)	79°	5,400 (2 449)			25 (7,6)
30 (9,1)			50°	9,330 (4 232)	62°	8,530 (3 869)	69°	7,930 (3 597)	73°	7,460 (3 384)	77°	5,100 (2 313)	79°	3,400 (1 542)	30 (9,1)
35 (10,7)			41°	7,900 (3 583)	57°	7,240 (3 284)	65°	6,680 (3 030)	70°	6,250 (2 835)	75°	4,700 (2 132)	77°	3,300 (1 497)	35 (10,7)
40 (12,2)			30°	6,580 (2 985)	51°	6,230 (2 826)	60°	5,730 (2 599)	67°	5,330 (2 418)	72°	4,230 (1 919)	76°	3,200 (1 452)	40 (12,2)
45 (13,7)			11°	4,740 (2 150)	44°	5,380 (2 440)	56°	4,960 (2 250)	63°	4,580 (2 077)	70°	3,630 (1 647)	72°	3,040 (1 379)	45 (13,7)
50 (15,2)					36°	4,620 (2 096)	51°	4,330 (1 964)	59°	3,980 (1 805)	67°	3,060 (1 388)	72°	2,800 (1 270)	50 (15,2)
55 (16,8)					27°	3,760 (1 706)	46°	3,770 (1 710)	55°	3,470 (1 574)	64°	2,580 (1 170)	69°	2,630 (1 193)	55 (16,8)
60 (18,3)					10°	2,670 (1 211)	40°	3,170 (1 438)	51°	3,040 (1 379)	62°	2,180 (989)	67°	2,420 (1 098)	60 (18,3)
65 (19,8)							33°	2,610 (1 184)	47°	2,650 (1 202)	59°	1,830 (830)	65°	2,080 (943)	65 (19,8)
70 (21,3)							24°	2,140 (971)	42°	2,200 (998)	56°	1,530 (694)	62°	1,800 (816)	70 (21,3)
75 (22,9)							9°	1,430 (649)	37°	1,800 (816)	53°	1,260 (572)	60°	1,540 (699)	75 (22,9)
80 (24,4)									31°	1,460 (662)	49°	1,020 (463)	57°	1,320 (599)	80 (24,4)
85 (25,9)									23°	1,170 (531)	46°	800 (363)	55°	1,110 (503)	85 (25,9)
90 (27,4)											42°	580 (263)	52°	930 (422)	90 (27,4)
95 (29,0)											38°	380 (172)	49°	750 (340)	95 (29,0)
100 (30,5)													46°	600 (272)	100 (30,5)
105 (32,0)													43°	440 (200)	105 (32,0)
Deduction*		460 (209)		270 (122)		210 (95)		170 (77)		140 (64)					
Deduction**		690 (313)		410 (186)		310 (141)		250 (113)		210 (95)					

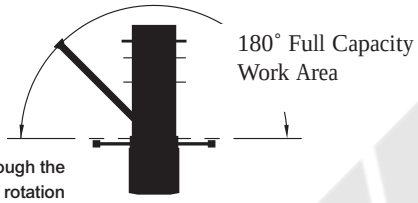
*for stowed fixed jib
**for stowed telescopic jib

load chart data

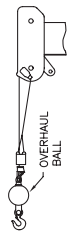
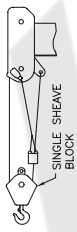
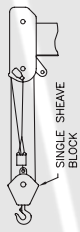
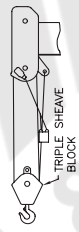
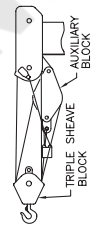
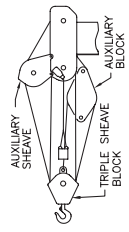
Deductions

Auxiliary Block	50 lb (23 kg)
Auxiliary Sheave	50 lb (23 kg)
Overhaul Ball	See manufacturer's nameplate
Load Block	See manufacturer's nameplate
Hose Reel	140 lb (64 kg)
Swing-Around Jib	See load rating chart

Area of Operation



Allowable Line Pull

1 Part Line	2 Part Line	3 Part Line	4 Part Line	5 Part Line	6 Part Line	7 Part Line
						
7,400 lb (3 357 kg)	**14,800 lb (6 713 kg)**	**22,200 lb (10 070 kg)**	**29,600 lb (13 426 kg)**	**37,000 lb (16 783 kg)**	**44,400 lb (20 140 kg)**	**51,800 lb (23 496 kg)**
8,500 lb (3 856 kg)	**17,000 lb (7 711 kg)**	**25,500 lb (11 567 kg)**	**34,000 lb (15 422 kg)**	**42,500 lb (19 278 kg)**	**51,000 lb (23 133 kg)**	**56,000 lb (25 401 kg)**

9/16" 6 x 25 IWRC (3.5:1 SF) – 29,750 lb Min Breaking Strength
9/16" Rotation Resistant (5.0:1 SF) – 37,000 lb Min Breaking Strength

Warning

Anti-two-block system must be in good operating condition before operating crane. Refer to the owner's manual. Keep at least three wraps of load line on the drum at all times.

specifications

Upperworks

Boom

Boom – Inverted T-cross section, 4-section telescoping type, extended and retracted proportionally by double-acting hydraulic cylinder and cable-crowd system. Easily replaceable and adjustable high-density nylon slide pads. 2892C-LMI & HYCAS – 4-section 28' (8,5 m) to 92' (28,0 m). Maximum main boom tip height 103' (31,4 m). 2-section, 26' (7,9 m) to 46' (14,0 m) jib. Maximum tip height 149' 1" (45,4 m).

Boom Points – Three high-density nylon sheaves mounted on heavy-duty roller bearings. Two removable pin-type rope guards. Quick-reeve boom point.

Boom Elevation – Double-acting hydraulic cylinder. Working range from 9˚ below horizontal to 80.6˚ above.

Hoist

Hoist – Maximum theoretical line speed 247 fpm (75,3 mpm). Maximum theoretical bottom-layer line pull 12,000 lbs (5 443 kg). Two-speed planetary reducer. Spring-applied, pressure-released internal brake. Wet multi-disc internal brake is spring-applied, pressure-released.

Wire Rope – 300' (91,4 m) of 9/16" (14,3 mm) diameter 6 x 25 EIPS IWRC.

Swing System

Externally mounted, double-reduction planetary driven by hydraulic motor. Maximum theoretical swing speed 1.5 rpm. Spring-applied, pressure-released parking brake. Ball-bearing swing circle with external gear. 372˚ non-continuous rotation.

Outriggers

A-frame link type with double-acting hydraulic cylinders operated independently for precise leveling. Bubble level located near outrigger controls.

Mounting

Mounting – Pedestal and subframe are mounted to chassis by threaded rods and clamp plates. No welding to truck chassis is required.

Stabilizers – Underframe out-and-down type with double-acting hydraulic cylinders operated independently for precise leveling.

Subframe – Torsion resistant, rigid 4-plate design, and mounted under crane full length of truck frame.

Rear Underride Protection – Supplied on factory mounted cranes. Fabricated structure mounted under rear of bed. Complies with Bureau of Motor Carrier Safety Standard 393.86.

Boom Rest – Heavy-duty, removable.

Control System

Dual operator platforms are equipped with four single-lever crane controls arranged to ANSI B30.5 standards. Fully proportional control valves and system pressure gauge. Each station also includes outrigger and stabilizer controls, engine start/stop, foot throttle, signal horn, boom-angle indicator, bubble levels, load chart, range diagram and audio and/or visual indicators to warn operator of overload condition.

Hydraulics

Hydraulic System – A 3-section vane pump direct-mounted to power take-off on truck transmission provides 35 gpm (133 lpm) to the hoist, 8 gpm (30 lpm) to the swing circuit and 18 gpm (68 lpm) to other crane functions. 70-gallon (265-liter) baffled reservoir includes suction ball valve with strainer and 25-micron filter in the return line. Use of SAE O-ring and face seal O-ring hydraulic fittings throughout system.

Hydraulic Cylinders – All load-holding cylinders are equipped with integral holding valves.

Warning Systems

Anti-Two-Block System – Audible warning and shutoff functions prevent hook from contacting boom point.

Back-Up Alarm – Electronic audible motion alarm activated when truck transmission is in reverse gear.

Load Moment Indicator – Senses boom hoist cylinder pressure, boom length and boom angle. Audio-visual warning indicates overload conditions and overload shutoff feature prevents continuing overload. Operator can access all relative crane configuration and load conditions via display at the operator station.

General

Electrical – State-of-the-art, weather-resistant components throughout. Automotive style electrical system for easy installation. Designed to withstand high pressure washing and varying climates.

specifications

Design/Welding – Design conforms to ANSI B30.5. Welding conforms to AWS D1.1. Tested to SAE 1063 and SAE 765.

Manuals – Operator, service and parts manuals depict correct crane operation, maintenance procedures and parts listing.

Warranty – 12-month warranty covers parts and labor resulting from defects in material and workmanship.

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 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.

10. Lifting off the main boom point while the swing-around jib is erected is not intended or approved.

11. All load ratings above the heavy line are based on machine structural competence and do not exceed 85% of tipping. Load ratings below are stability limited and do not exceed 85% of tipping.

12. Do not operate a Manitowoc truck-mounted crane or accessories within 10' (3,05 m) of live power lines.

13. This capacity chart is for reference only and must not be used for specific serial number cranes.

Information

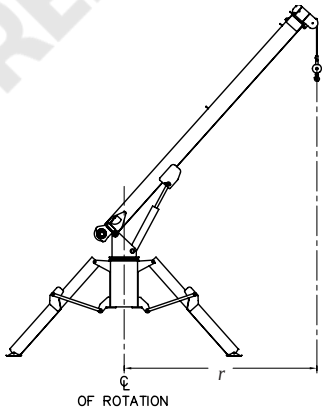
1. Deductions must be made from rated loads for stowed jib, optional attachments, hooks, and loadblocks (see deduction chart). Weights of slings and all other load-handling devices shall be considered a part of the load.

2. Crane load ratings with outriggers are based on outriggers and stabilizers extended and set with machine leveled.

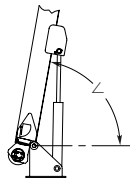
3. Load ratings above the heavy line are structurally limited capacities. Load ratings below the heavy line are stability limited capacities and do not exceed 85% of tipping.

Definitions

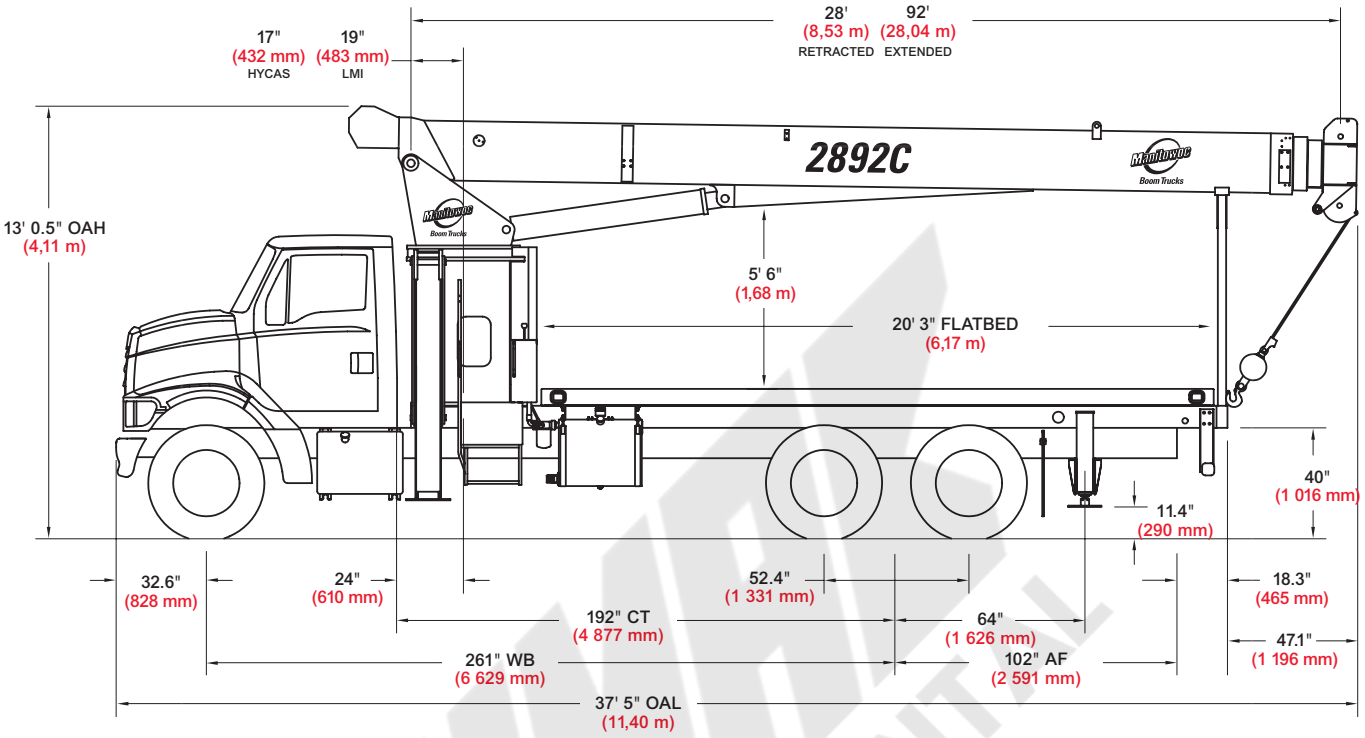
1. Operating radius (r) is the horizontal distance from the axis of rotation to the center of the vertical hoist line or tackle with load applied (see below).



2. Loaded boom angle (∠), as shown in the load chart columns headed by ∠, is the included angle between the horizontal and longitudinal axis of the boom base after lifting rated load at rated radius (see below).



outline dimensions



Chassis Data

Minimum Truck Requirements	2892C
Wheelbase (WB)	249" (6 325 mm)
Cab to Tandem (CT)	180" (4 527 mm)
After Frame (AF)	102" (2 591 mm)
Frame Section Modulus	20.0 in³ 110,000 psi (758 422 kPa)
Front Axle Gross Weight Rating	16,000 lb (7 257 kg)
Rear Axle Gross Weight Rating	34,000 lb (15 422 kg)
Minimum Truck Axle Weight – Front*	8,500 lb (3 856 kg)
Minimum Truck Axle Weight – Back*	8,150 lb (3 697 kg)
Nominal Frame Width	34 " (864 mm)

Weights

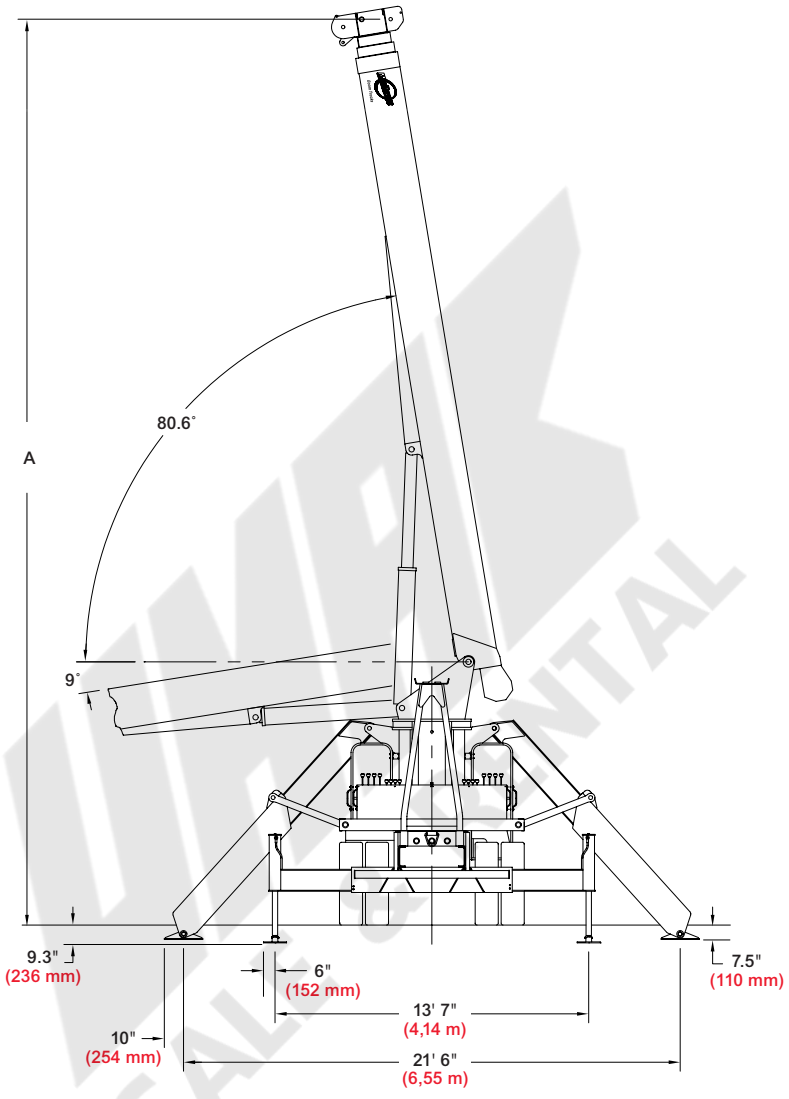
	2892C
Total Crane - Standard	20,462 lb (9 282 kg)
Total Crane - Out-and-Down Outriggers (Out-and Down outrigger configuraton only avialable on LMI unit)	24,612 lb (11 164 kg)
20' (6,10 m) Flat Bed - Standard Outriggers	1,840 lb (835 kg)
22' (6,71 m) Flat Bed - Out-and-Down Outriggers	2,000 lb (907 kg)
26' (7,93 m) Fixed Length Jib	832 lb (377 kg)
26'-46' (7,93 m-14,02 m) Telescopic Jib	1,226 lb (556 kg)

*Minimum chassis weight is required to meet 85% stability requirements.

Chassis data is general – not for engineering. Some dimensions depend on truck selection.

OAH Overall Height
CT Cab to Tandem
CA Cab to Axle
WB Wheel Base
OAL Overall Length
BBC Bumper to Back of Cab
AF Afterframe

outline dimensions



Maximum Tip Height (A)

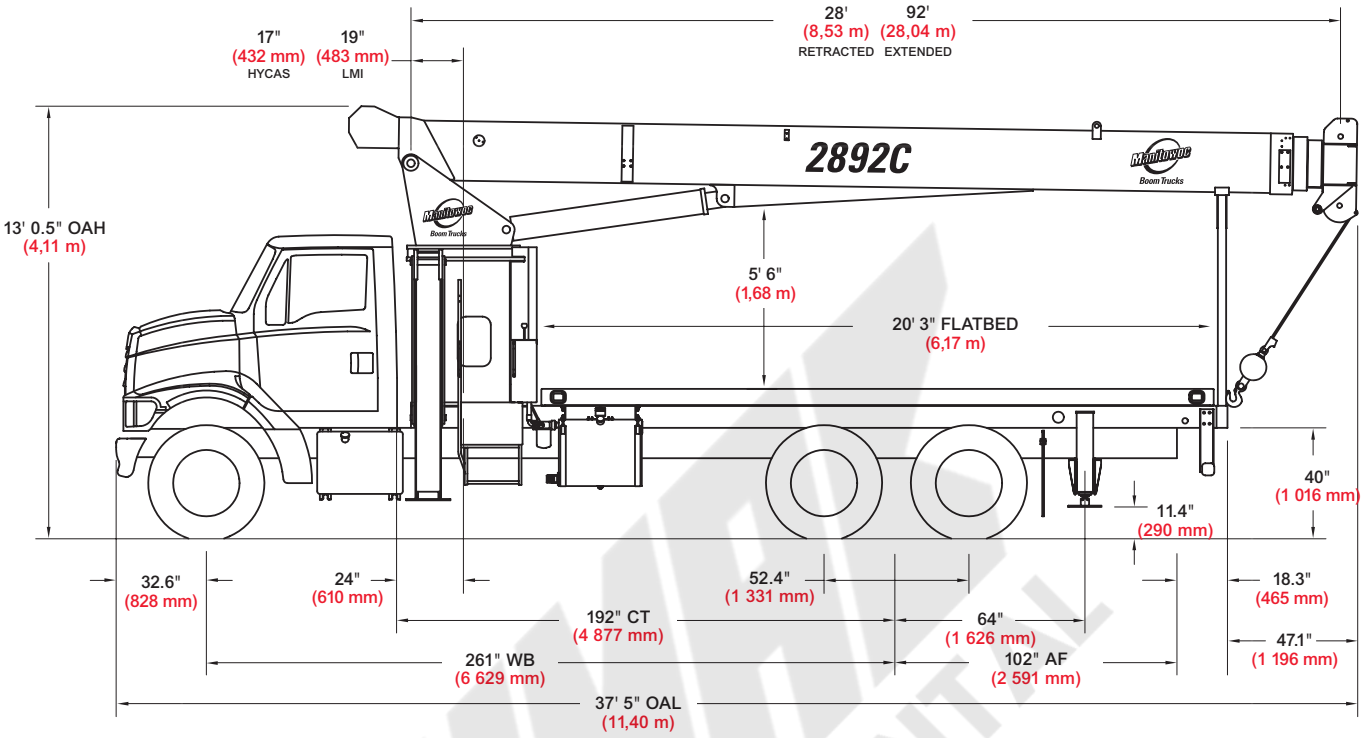
Configuration	2892C Boom 92' (28,0 m)
Extended Boom	103' (31,4 m)
Fixed or Retracted Jib	129' 4" (39,4 m)
Extended Jib	149' (45,4 m)

TRANSPORTATION SPECS - Boom Trucks

MANITOWOC MODEL 2892C - 28 TON CAPACITY

COMPONENT WEIGHTS	**LBS.**	**KGS.**
Complete Crane (Includes Ball and Jib)	40,350	18 303
Crane Only	20,462	9 282
ADDITIONAL INFORMATION		
7 Ton Ball	172	78
Tele-jib (26'-46')	1,226	556
Main Load Line 9/16" x 300'	180	82
Deck Space 8'6" x 20'	1,840	835
TRANSPORTATION		
Average Driving Speed		80 km/hr
Alberta and B. C.		
• All Season	Drive	

outline dimensions



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OAH	Overall Height
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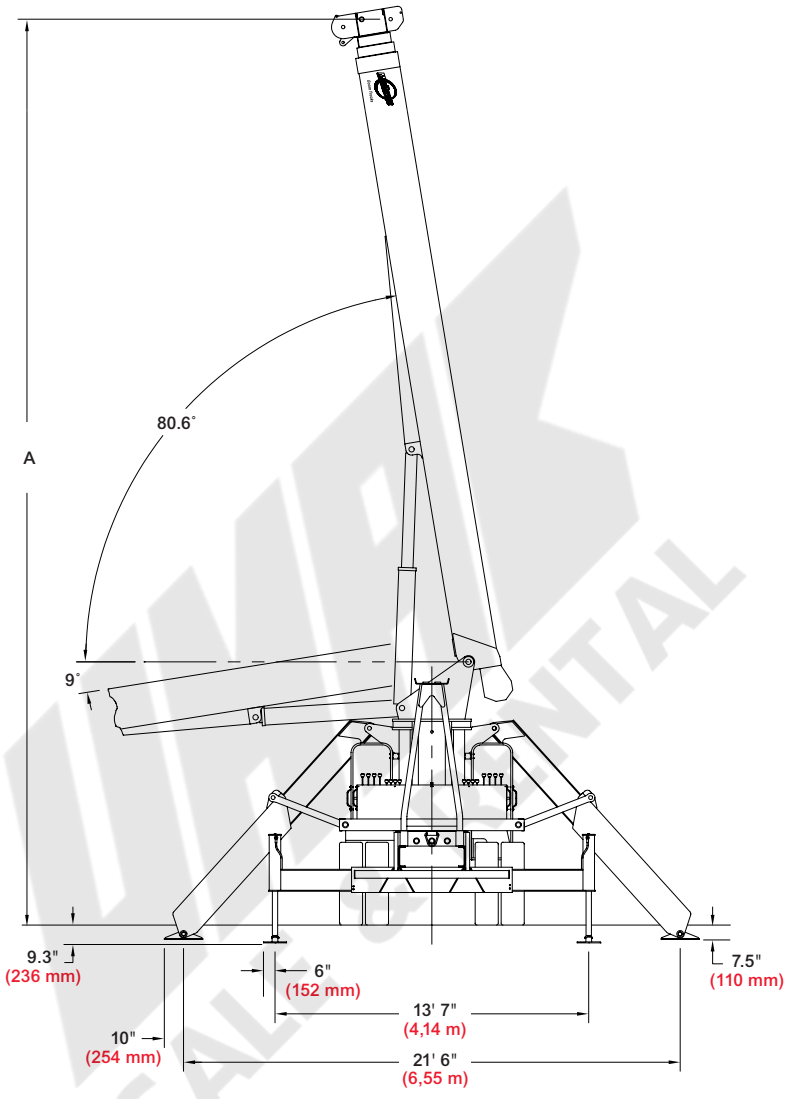
CA	Cab to Axle
WB	Wheel Base
OAL	Overall Length
BBC	Bumper to Back of Cab
AF	Afterframe

outline dimensions



Maximum Tip Height (A)	
	2892C
Configuration	**Boom 92' (28,0 m)**
Extended Boom	**103' (31,4 m)**
Fixed or Retracted Jib	**129' 4" (39,4 m)**
Extended Jib	**149' (45,4 m)**