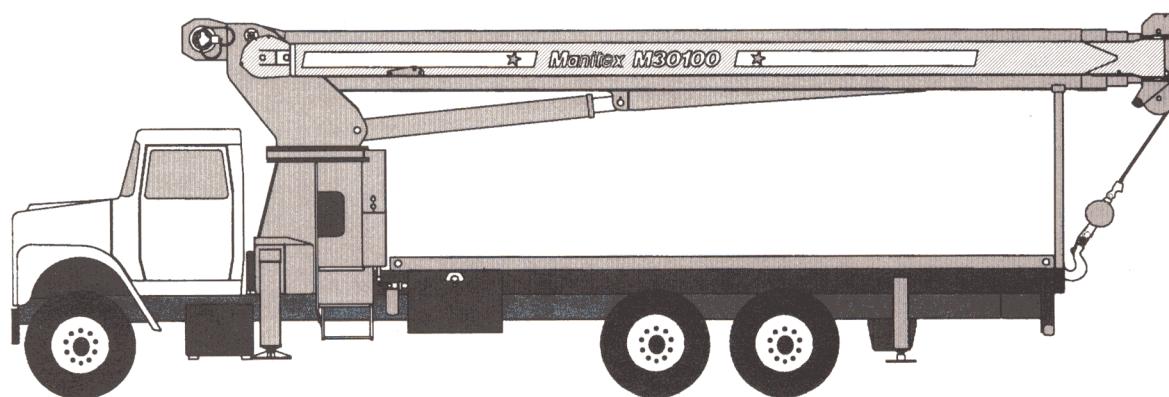


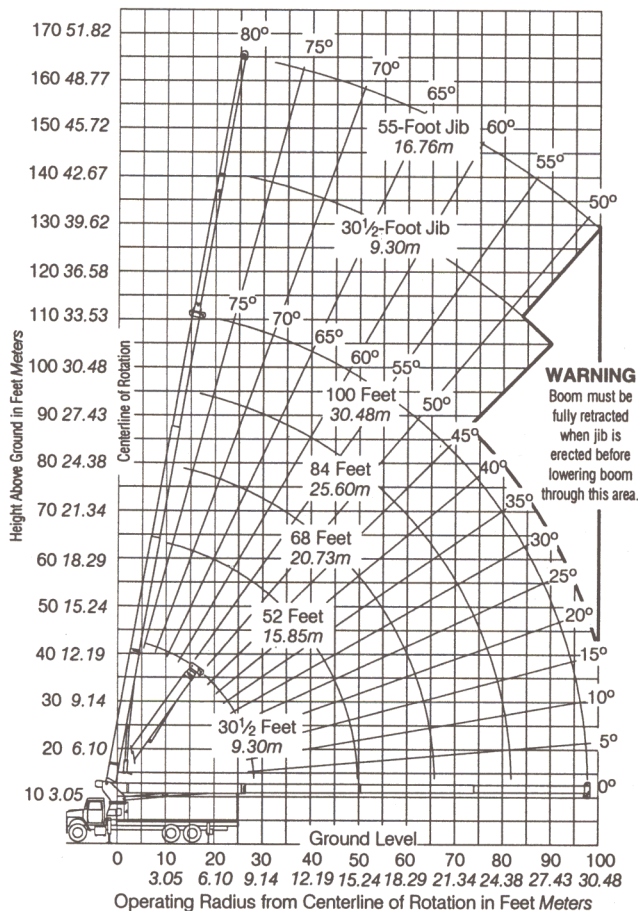
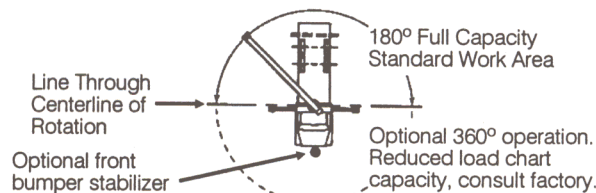


Millennium Series™ M3000 General Specifications



STANDARD EQUIPMENT

- **M30100** - 4-Section telescopic boom
30'6" to 100' (9.30m to 30.48m).
- **M3077** - 3-Section telescopic boom
30'6" to 77' (9.30m to 23.47m).
- 2-Speed planetary hoist.
- 5-Ton (4.5-mt) hook and ball.
- 3-Sheave boom point.
- Anti-two-block shutoff.
- Boom hoist cylinder.
- System pressure gauge.
- 100-Gallon (379-liter) hydraulic reservoir.
- Removable boom rest.
- Finish paint in Manitex colors.
- Engine start/stop.
- Operator/service/parts manuals.
- 335' (102.11m) of $\frac{9}{16}$ " (14.3mm) EIPS IWRC wire rope.
- 372° Non-continuous rotation.
- Pedestal, turret, rotation bearing and swing system.
- Dual operator control stations.
- Load moment indicator - audio/visual warning.
- Audible outrigger/stabilizer motion alarm.
- Out-and-down rear stabilizers.
- Out-and-down front outriggers.
- 3-Section vane type hydraulic pump.
- 22' (6.71m) Subframe.
- Signal horn.

**M30100 RANGE DIAGRAM****MODEL M30100****AREA OF OPERATION****ALLOWABLE LINE PULL**

1 PART LINE	2 PART LINE	3 PART LINE	4 PART LINE	5 PART LINE	6 PART LINE
9600 lb 4354 kg	19200 lb 8709 kg	28800 lb 13063 kg	38400 lb 17418 kg	48000 lb 21772 kg	57600 lb 26127 kg

WARNING

ANTI-TWO BLOCK SYSTEM MUST BE IN GOOD OPERATING CONDITION BEFORE OPERATING CRANE. REFER TO OWNER'S MANUAL. KEEP AT LEAST 3 WRAPS OF LOAD LINE ON DRUM AT ALL TIMES.

WEIGHTS

Total crane, including hydraulic fluid.....	27,000 lb	12,247 kg
30'6" (9.30m) Fixed length jib.....	1,120 lb	508 kg
55' (16.76m) Telescopic jib.....	1,700 lb	771 kg
15-Ton (13.6-mt) single-sheave block.....	430 lb	195 kg
30-Ton (27.2-mt) triple-sheave block.....	450 lb	204 kg
Hanger sheave for 5- and 6-part line.....	50 lb	23 kg
22'4" (6.81m) Steel or wood bed.....	2,000 lb	907 kg

DEDUCTIONS

Hanger Sheave.....	50 lb	23 kg
Overhaul Ball.....	180 lb	82 kg
Single-Sheave Load Block.....	430 lb	195 kg
Triple-Sheave Load Block.....	450 lb	204 kg

Hose Reel.....	260 lb	118 kg
Swing-Around Jib.....	See Load Rating Chart	

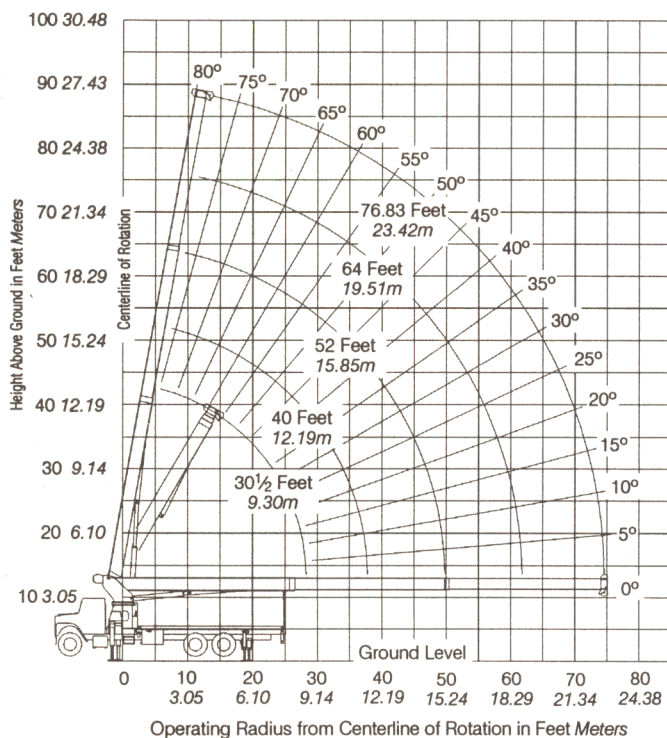
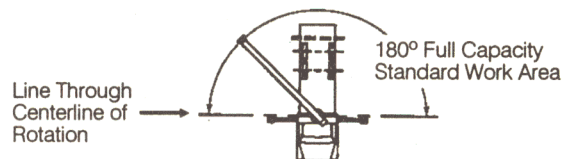
WARNING Lifting off the main boom point while the swing-around jib is erected is not intended or approved.

Outriggers and stabilizers fully extended and machine level.

M30100 LOAD RATING CHART

Meets ANSI B30.5 Requirements.

Operating Radius		BOOM LOAD RATINGS										JIB LOAD RATINGS					
		30.5 Feet 9.30 Meters		52 Feet 15.85 Meters		68 Feet 20.73 Meters		84 Feet 25.60 Meters		100 Feet 30.48 Meters		30.5 Foot 9.30 Meters		30.5 Foot 9.30 Meters		55 Feet 16.76 Meters	
Feet	Meters	°	lb kg	°	lb kg	°	lb kg	°	lb kg	°	lb kg	°	lb kg	°	lb kg	°	lb kg
5.5	1.68	80°	60,000 27,216									Fixed Jib		Telescopic Jib			
8	2.44	75°	45,200 20,502														
10	3.05	71°	38,700 17,554														
12	3.66	67°	33,800 15,331	78°	27,100 12,292												
15	4.58	61°	28,600 12,973	74°	25,200 11,431	79°	23,300 10,569										
20	6.10	48°	22,500 10,206	68°	19,800 8,981	74°	18,320 8,310	78°	17,040 7,729	80°	14,000 6,350						
25	7.62	32°	16,970 7,697	62°	16,220 7,357	70°	14,940 6,777	74°	13,940 6,323	78°	12,260 5,561						
30	9.14			55°	13,660 6,196	65°	12,580 5,706	71°	11,650 5,284	75°	10,680 4,844	79°	6,700 3,039	79°	6,400 2,903		
35	10.67			48°	11,140 5,053	60°	10,850 4,921	67°	10,050 4,559	72°	9,280 4,209	76°	6,200 2,812	76°	5,850 2,654	80°	4,000 1,814
40	12.19			39°	8,650 3,924	55°	8,790 3,987	63°	8,700 3,946	69°	8,110 3,679	74°	5,630 2,554	74°	5,250 2,381	78°	3,850 1,746
45	13.72			28°	6,750 3,062	49°	6,910 3,134	59°	7,030 3,189	65°	7,080 3,211	72°	5,060 2,295	72°	4,670 2,118	76°	3,700 1,678
50	15.24					43°	5,500 2,495	55°	5,630 2,554	62°	5,700 2,585	70°	4,560 2,068	70°	4,160 1,887	74°	3,550 1,610
55	16.76					36°	4,400 1,996	50°	4,530 2,055	59°	4,610 2,091	67°	4,130 1,873	67°	3,710 1,683	72°	3,310 1,501
60	18.29					27°	3,530 1,601	46°	3,650 1,656	55°	3,740 1,696	65°	3,730 1,692	65°	3,300 1,497	70°	3,020 1,370
65	19.81					12°	2,790 1,266	40°	2,950 1,338	51°	3,030 1,374	63°	3,300 1,497	63°	2,860 1,297	68°	2,730 1,238
70	21.34	This capacity chart is for reference only and must not be used for a specific serial number crane.										60°	2,710 1,229	60°	2,300 1,043	66°	2,480 1,125
75	22.86											57°	2,200 998	57°	1,800 816	64°	2,240 1,016
80	24.38	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.										55°	1,760 798	55°	1,370 621	62°	2,030 921
85	25.91											52°	1,390 630	52°	990 449	60°	1,670 757
90	27.43											49°	1,060 481	49°	660 299	57°	1,340 608
95	28.96	Do not operate a Manitex truck-mounted crane or accessories within 10' (3.05m) of live power lines.										46°	770 349			55°	1,040 472
100	30.48															53°	780 354
7300034-003		600	272	350	159	270	122	220	100	180	82	Deduction for stowed fixed jib					
		900	408	530	240	400	181	330	150	290	132	Deduction for stowed telescopic jib					

**M3077 RANGE DIAGRAM****MODEL M3077****AREA OF OPERATION**

ALLOWABLE LINE PULL						WARNING
1 PART LINE	2 PART LINE	3 PART LINE	4 PART LINE	5 PART LINE	6 PART LINE	
						ANTI-TWO BLOCK SYSTEM MUST BE IN GOOD OPERATING CONDITION BEFORE OPERATING CRANE. REFER TO OWNER'S MANUAL. KEEP AT LEAST 3 WRAPS OF LOAD LINE ON DRUM AT ALL TIMES.
9600 lb 4354 kg	19200 lb 8709 kg	28800 lb 13063 kg	38400 lb 17418 kg	48000 lb 21772 kg	57600 lb 26127 kg	
9080 lb 4119 kg	18160 lb 8237 kg	27240 lb 12356 kg	36320 lb 16474 kg	45400 lb 20593 kg	54480 lb 24712 kg	
10000 lb 4536 kg	20000 lb 9072 kg	30000 lb 13608 kg	40000 lb 18144 kg	50000 lb 22680 kg	60000 lb 27216 kg	5/8" (15.9mm) 6x25 EIPS IWRC (3.5:1 SF). 35000 lb (15876 kg) Minimum breaking strength.

WEIGHTS

Total crane, including hydraulic fluid.....24,097 lb... 10,930 kg
15-Ton (13.6-mt) single-sheave block.....430 lb..... 195 kg
30-Ton (27.2-mt) triple-sheave block450 lb..... 204 kg

Hanger sheave for 5- and 6-part line 50 lb..... 23 kg
22'4" (6.81m) Steel or wood bed..... 2,000 lb..... 907 kg

DEDUCTIONS

Hanger Sheave 50 lb..... 23 kg
Overhaul Ball 180 lb..... 82 kg
Single-Sheave Load Block..... 430 lb..... 195 kg
Triple-Sheave Load Block..... 450 lb..... 204 kg

Hose Reel.....260 lb.....118 kg

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

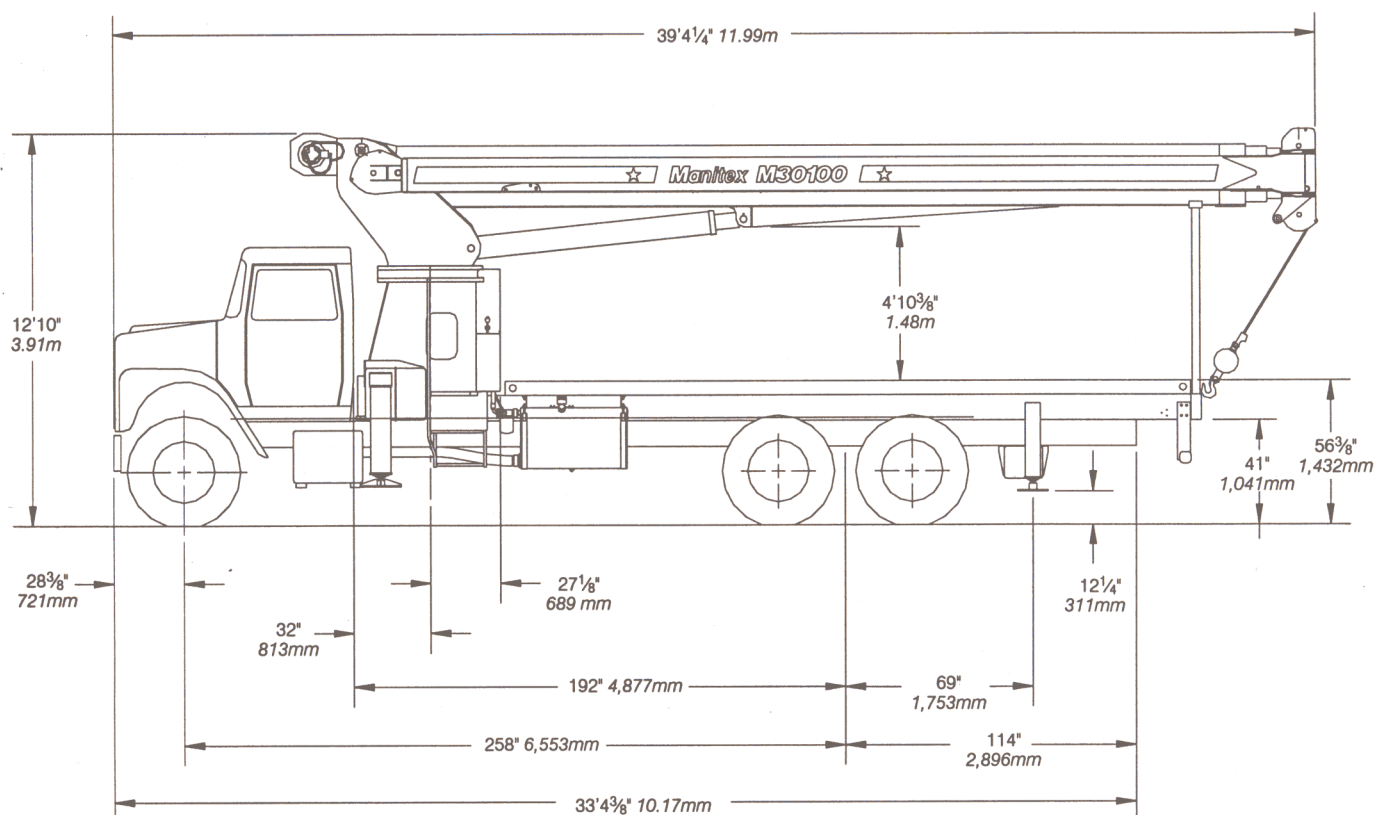
Outriggers and stabilizers fully extended and machine level.

M3077 LOAD RATING CHART

Meets ANSI B30.5 Requirements.

Operating Radius		BOOM LOAD RATINGS											
Feet	Meters	30.5 Feet 9.30 Meters		40 Feet 12.19 Meters		52 Feet 15.85 Meters		64 Feet 19.51 Meters		76.83 Feet 23.42 Meters		lb	kg
		∠	lb	∠	lb	∠	lb	∠	lb	∠	lb		
5.5	1.68	80°	60,000										
8	2.44	75°	46,360	79°	43,960								
10	3.05	71°	39,810	76°	37,550	80°	35,150						
12	3.66	67°	34,930	73°	32,800	78°	30,650	80°	28,910				
15	4.58	61°	29,690	69°	27,740	74°	25,940	78°	24,250	80°	22,440	10,179	
20	6.10	48°	23,400	60°	22,080	68°	20,500	73°	19,250	77°	18,080	8,201	
25	7.62	32°	17,930	51°	18,170	62°	17,040	68°	15,890	73°	14,900	6,759	
30	9.14			40°	14,500	55°	14,500	63°	13,510	69°	12,640	5,733	
35	10.67			26°	11,020	48°	11,170	58°	11,260	65°	10,950	4,967	
40	12.19					39°	8,680	52°	8,760	60°	8,820	4,001	
45	13.72					28°	6,920	46°	7,000	56°	7,040	3,193	
50	15.24							39°	5,680	51°	5,720	2,595	
55	16.76	This capacity chart is for reference only and must not be used for a specific serial number cranes.			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.								
60	18.29												
65	19.81												
70	21.34							30°	4,660	45°	4,700	2,132	
								17°	3,850	39°	3,890	1,764	
										32°	3,220	1,461	
										23°	2,670	1,211	
7300034-014		Do not operate a Manitex truck-mounted crane or accessories within 10' (3.05m) of live power lines.											

M3000 OUTLINE DIMENSIONS



These dimensions are general, not for Engineering. Some dimensions depend on truck selection. Dimensions shown on this page apply to both the M30100 and the M3077 models.

TRUCK CHASSIS DATA

Minimum Requirements for M3000 Series.

Some configurations and options may increase requirements.

Wheelbase	258 In.	6,553mm
Cab to Axle.....	192 In.	4,877mm
Frame Section Modulus.....	110,000 psi	758,450 kPa
	25.0 In ³	410cc
Nominal Frame Width	34 In.	864mm
Front Axle Gross Weight Rating	18,000 lb	8,165 kg
Rear Axle Gross Weight Rating	38,000 lb	17,237 kg

