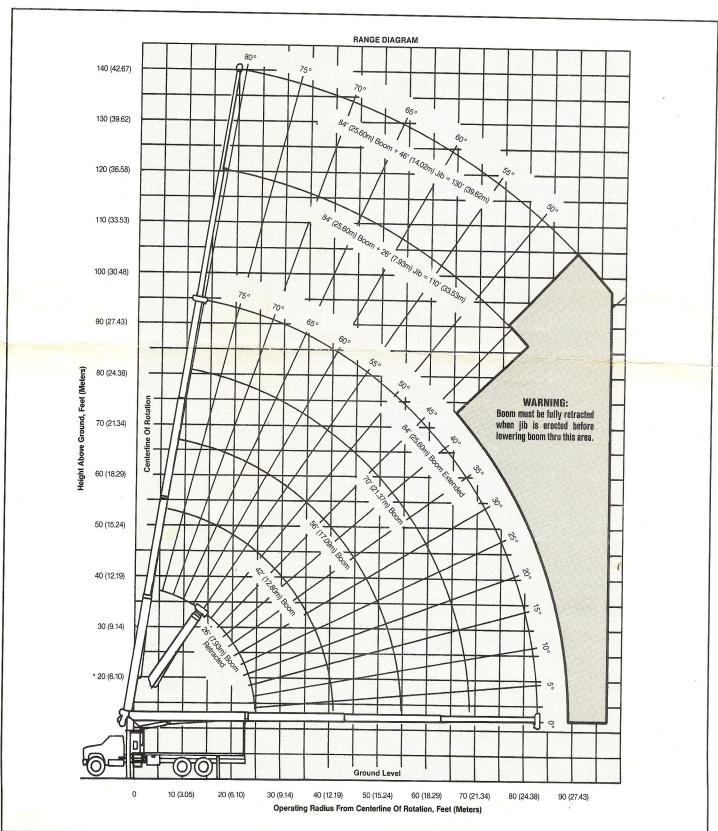
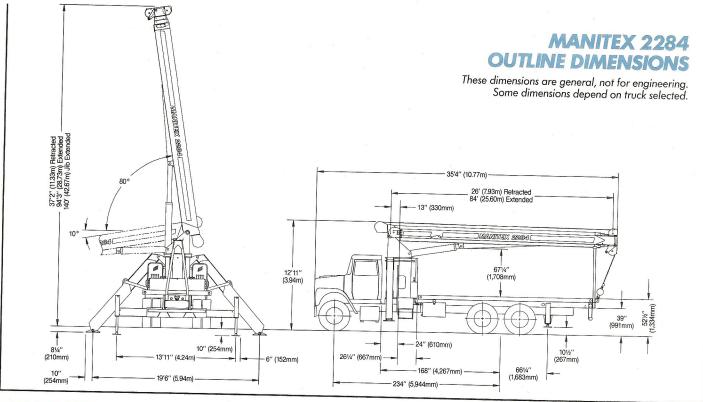


GENERAL SPECIFICATIONS

MODEL 2284 TRUCK-MOUNTED CRANE





STANDARD EQUIPMENT

- 4-section telescopic boom 26' (7.93m) to 84' (25.60m)
- Pedestal, turret, rotation bearing & swing system
- 20' (6.10m) subframe
- A-frame link-type outriggers
- Out-and-down rear stabilizers
- 3-sheave boom point
- Boom-hoist cylinder
- 2-speed planetary hoist
- Dual operator stations
- Removable boom rest
- 5-ton (4.5-mt) hook & ball
- 372° non-continuous rotation

- 56-gallon (212-liter) hydraulic reservoir
- 3-section vane-type
- System pressure gauge
- Anti-two-block shutoff
- Audible outrigger/stabilizer motion alarm
- Back-up alarm
- Signal horn
- 300′ (91.44m) of %16″ (14.3mm) EIPS IWRC wire rope
- Finish paint in Manitex colors
- Operator/service/parts manuals

Some configurations and options may increase requirements hydraulic pump Wheelbase Cab to axle Capacity-alert system, audio/visual

168" 4,267mm Front axle gross weight rating 14,000 lbs 6,350 kgs Rear axle gross weight rating..... 17,237 kgs 38,000 lbs Frame section modulus..... 20.0 in³ 328 cc 110,000 psi 758,450 kPa

234"

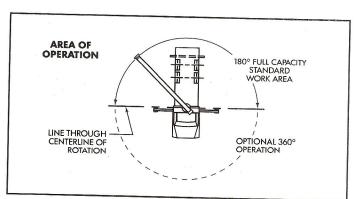
5,944mm

TRUCK CHASSIS DATA

Minimum Requirements:

Nominal frame width 864mm

WEIGHTS Total crane, including hydraulic fluid	Lbs. 19.200	Kgs. 8,709
Additions:		0,, 0,
26' (7.93m) fixed-length jib 46' (14.02m) telescopic jib 15-ton (13.6-mt) single-sheave block 25-ton (22.7-mt) triple-sheave block	1,220 263	372 553 119 172
Hanger sheave for 5- and 6-part line 20'4" (6.20m) steel or wood bed	20	17



ALLOWABLE LINE PULL								
1-PART LINE	2-PART LINE	3-PART LINE	4-PART LINE	5-PART LINE	6-PART LINE			
OVERHAUL BALL 8,500 Lbs. (3,856 Kgs.) ¹	SINGLE SHEAVE BLOCK	SINGLE SHEAVE BLOCK	DOUBLE SHEAVE BLOCK	AUXILIARY BLOCK DOUBLE SHEAVE BLOCK	AUXILIARY BLOCK TRIPLE SHEAVE BLOCK			
7,400 Lbs. (3,357 Kgs.) ²	17,000 Lbs. (7,711 Kgs.) ¹ 14,800 Lbs. (6,713 Kgs.) ² k system must be in good op:	25,500 Lbs. (11,567 Kgs.) ¹ 22,200 Lbs. (10,070 Kgs.) ²	34,000 Lbs. (15,422 Kgs.) ¹ 29,600 Lbs. (13,426 Kgs.) ²	42,500 Lbs. (19,278 Kgs.) ¹ 37,000 Lbs. (16,783 Kgs.) ²	44,000 Lbs. (19,958 Kgs.) ¹ 44,000 Lbs. (19,958 Kgs.) ²			

ing condition before operating crane. Refer to Owner's Manual. Keep at least 3 wraps of load line on drum at all times.

¹With ⁹/16" (14.3mm) 6 x 25 IWRC (3.5:1 S.F.) 29,750 Lbs. (13,494 Kgs.) Minimum Breaking Strength ²With ⁹/16" (14.3mm) Rotation Resistant (5.0:1 S.F.) 37,000 Lbs. (16,783 Kgs.) Minimum Breaking Strength

STANDARD SPECIFICATIONS AND FEATURES

BOOM—26' (7.93m) to 84' (25.60m). Inverted-T cross section. 4-section telescoping type, extended and retracted proportionally by double-acting hydraulic cylinder and cable-crowd system. Maximum tip height 94' (28.65m).

BOOM POINT—Three high-density nylon sheaves mounted on heavy-duty roller bearings. Two removable pin-type rope guards.

HOIST—Maximum line speed 247 fpm (75.25 mpm). Maximum bottom-layer line pull 12,000 lbs. (5,443 kgs). Two-speed planetary reducer. Spring-applied, pressure-released internal brake.

WIRE ROPE— 300' (91.44m) of %16'' (14.3mm) diameter 6 x 25 EIPS IWRC.

BOOM ELEVATION—Double-acting hydraulic cylinder. Working range from 10° below horizontal to 80° above.

SWING SYSTEM—Externally mounted, double-reduction planetary driven by hydraulic motor. Maximum swing speed 1.50 rpm. Wet multi-disc internal brake is spring applied, pressure released. Oversized diameter ball bearing swing circle with external gear. 372° non-continuous rotation.

OUTRIGGERS—8' (2.44m) retracted; 19'6" (5.94m) extended. A-frame link type. Operated independently for precise leveling. Equipped with double-acting hydraulic cylinders. 16" (406mm) x 20" (508mm) pivoting pads. 81/4" (210mm) maximum rise.

STABILIZERS—8' (2.44m) retracted; 13'7" (4.14m) extended. Out-and-down type. Operated independently for precise leveling. Double-acting hydraulic cylinders. 12" (305mm) diameter pivoting pads. 91/4" (235mm) maximum rise.

SUBFRAME—Torsionally resistant, rigid 4-plate design. 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 Motor Carrier Safety standard 393.86.

BACK-UP ALARM—Supplied on factory-mounted cranes. Electronic audible motion alarm activated when truck transmission is in reverse gear.

MOUNTING—Pedestal and subframe are mounted to chassis by threaded rods and clamp plates. No welding, drilling, or bolting to truck.

CONTROL SYSTEM—Dual operator stations are equipped with 4 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, overload gauges, boom-angle indicator, bubble levels, load chart and range diagram.

HYDRAULIC SYSTEM—A 3-section vane pump direct mounted to power takeoff 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. 56-gallon (212-liter) baffled reservoir includes 10-micron filter in the return line. All fittings meet SAE standards and have O-ring face seals.

HYDRAULIC CYLINDERS—All are equipped with integral holding valves.

BOOM REST—Heavy-duty fabrication. Easily removed to simplify loading and unloading.

LOAD HOOK—5-ton (4.5-mt) capacity hook with heavy-duty swivel and weight is provided for single-line operation.

CAPACITY-ALERT SYSTEM—Monitors boom-hoist cylinder pressure. Color-coded gauge at each operator station and audible alarm indicate approaching overload. Optional shutdown system hydraulically prevents continuing overload.

ANTI-TWO-BLOCK SYSTEM—Audible warning and shutoff functions prevent hook from contacting boom point.

ELECTRICAL—12-volt direct current. Environmentally sealed enclosure.

DESIGN/WELDING—Design conforms to ANSI B30.5. Welding conforms to AWS D1.1.

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 or workmanship.

OPERATOR ASSIST FEATURES

- Anti-two-block warning and shutoff
- Capacity-alert system, audio/visual
- Load chart/range diagram
- Boom-angle indicator
- Audible outrigger/stabilizer motion alarm
- Engine start/stop
- Signal horn
- Back-up alarm

OPTIONS

FIXED SWING-AROUND JIB—26' (7.92m) fixed length. Stows along boom base. Maximum tip height 121' (36.88m).

TELESCOPIC SWING-AROUND JIB—Working lengths 26' (7.92m) and 46' (14.02m). Stows along boom base. Telescopic section stows inside jib base. Manually pinned in retracted or extended position. Maximum tip height 141' (42.98m).

BED—8' (2.44m) \times 20'4" (6.20m). Deck of high-density hardwood or diamond steel tread plate. Cross sills on 12" (305mm) centers. Bolts to subframe.

- %16" (14.3mm) rotationresistant wire rope
- Hook block for 2- to 6-part load line
- Hanger sheave for 5- and 6-part line
- Aerial baskets,1- or 2-person
- Remote-control operation
- Front-bumper stabilizer for 360° operation
- Hydraulic swivel for continuous rotation
- Capacity overload shutdown system

- Dunnage/tool boxes
- Air throttle
- Various mountings
- Special paint
- A-frame rear stabilizers
- Roofer's package
 Pallet forks
 Clamshell buckets
 Hydraulic hose reel
 Trash dumpster
 Gravel hopper
 Oil cooler for dutycycle applications

MODEL 2284 LOAD RATING CHART

This capacity chart is for reference use only and must not be used for a specific serial number crane. Lifting off the main boom point while the swing-around jib is erected is not approved.

MEETS
ANSI B30.5
REQUIREMENTS

Operat	ing Radius		ing 26' (7.9	2m) Boom		ng 42' (12.	80m) Boom	Load Rating 56' (17.07m) Boom		Load Rating 70' (21.34m) Boom			Load Rating 84' (25.60m) Book			
Feet	Meters	Loaded Bm. Angle	Pounds	Kilograms	Loaded Bm. Angle	Pounds	Kilograms	Loaded Bm. Angle	Pounds	Kilograms	Loaded			Loaded		I and
4′	1.22	80°	44,000	19,958				- Angle	1001103	Kilogranis	bill. Angle	Pounds	Kilograms	Bm. Angle	Pounds	Kilogram
6'	1.83	77°	34,600	15,695					100							
8′	2.44	72°	27,800	12,610												
10′	3.05	67°	23,350	10,591	77°	20,000	9,072									
12'	3.66	62°	20,200	9,163	74°	17,860	8,101	79°	16,400	7 400						
14'	4.27	57°	17,780	8,065	71°	15,660	7,103	76°		7,439	000					
16′	4.88	51°	15,870	7,199	68°	13,930	6,319	74°	14,400	6,532	80°	13,320	6,042			
20'	6.10	38°	12,800	5,806	62°	11,400	5,171	70°	10,400	5,797	78°	11,770	5,339			
25'	7.62				54°	9,230	4,187	64°	8,400	4,717	75°	9,570	4,341	78°	8,900	4,037
30'	9.14				44°	7,630	3,461	58°	7,000	3,810	70°	7,710	3,497	74°	7,180	3,257
35′	10.67				33°	6,260	2,839	52°		3,175	66°	6,410	2,908	71°	5,910	2,681
40'	12.19				14°	4,500	2,041	45°	5,910 5,040	2,681	61°	5,410	2,454	67°	4,980	2,259
45'	13.72					1,000	2,041	43 43°	4,260	2,286	56°	4,630	2,100	63°	4,260	1,932
50′	15.24						1000	26°		1,932	51°	4,000	1,814	59°	3,670	1,665
55'	16.76							20	3,470	1,574	45°	3,460	1,569	55°	3,190	1,447
60′	18.28							-			39°	2,960	1,343	51°	2,770	1,256
65'	19.81			PERMIT	-						31°	2,430	1,102	46°	2,390	1,084
70′	21.34		-								21°	1,920	871	41°	2,010	912
75′	22.86					_								35°	1,620	735
80′	24.38													27°	1,300	590
								D 1 .:						19°	990	449
			650	295		400	101	Deduction							a de la constante de la consta	
JI			550	2/3		400	181		300	136		250	113		200	91

Operating Radius			Rating 26' (All Boom Le	7.92m) Jib ngths	Jib Load Rating 46' (14.02m) Jib For All Boom Lengths			
Feet Meters		Loaded Bm. Angle	Pounds	Kilograms	Loaded Bm. Angle	Pounds	Kilograms	
25'	7.62	790	4,510	2,046		. comus	Knogi um.	
30'	9.14	76°	3,890	1,765	79°	3,100	1,406	
35'	10.67	74°	3,350	1,519	77°	2,800	1,270	
40'	12.19	71°	2,900	1,315	75°	2,520	1,143	
45'	13.71	68°	2,500	1,134	72°	2,240	1,016	
50'	15.24	65°	2,170	984	70°	1,980	898	
55′	16.76	62°	1,870	848	67°	1,750	794	
60′	18.23	59°	1,520	689	65°	1,550	703	
65'	19.81	56°	1,240	562	63°	1,370	621	
70′	21.34	52°	980	445	60°	1,210	549	
75'	22.86	49°	760	345	57°	1,050	476	
80′	24.38	45°	570	258	54°	850	386	
85'	25.91				51°	680		
90'	27.43				48°	520	308 236	

WARNING: Before operating any Manitex crane, the operator must read and understand the owner's manual and other instructions for a specific serial number crane. This chart is only a guide. The notes and warnings are for illustration only and cannot be used to operate a crane.

The operating radius shown in the jib load 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. Do not rely on capacity-alert system when lifting from jib.

Main boom load ratings above the heavy line are based on a constant hoist cylinder pressure, machine structural competence, and do not exceed 85% of tipping. Jib load ratings above the heavy line are based only on machine structural competence and do not exceed 85% of tipping.

DO NOT OPERATE A MANITEX TRUCK-MOUNTED CRANE OR ACCESSORIES WITHIN 10' (3.05m) OF LIVE POWER LINES.

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.

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

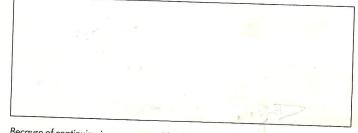
Deductions From Rated Loads For Manitex Supplied Load Handling Devices							
Hanger Sheave	50 lbs	(23 Kgs.)					
Overhaul Ball	120 Lbs.						
Single Sheave Load Block	280 Lbs.	(127 Kgs.)					
Double Sheave Load Block	350 Lbs.	(159 Kgs.)					
Triple Sheave Load Block	380 Lbs.	(172 Kgs.)					
Hose Reel	140 Lbs.	164 Kas 1					
Swing-Around Jib	See load	chart					



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Because of continuing improvements, Manitex reserves the right to change product specifications without notice.

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