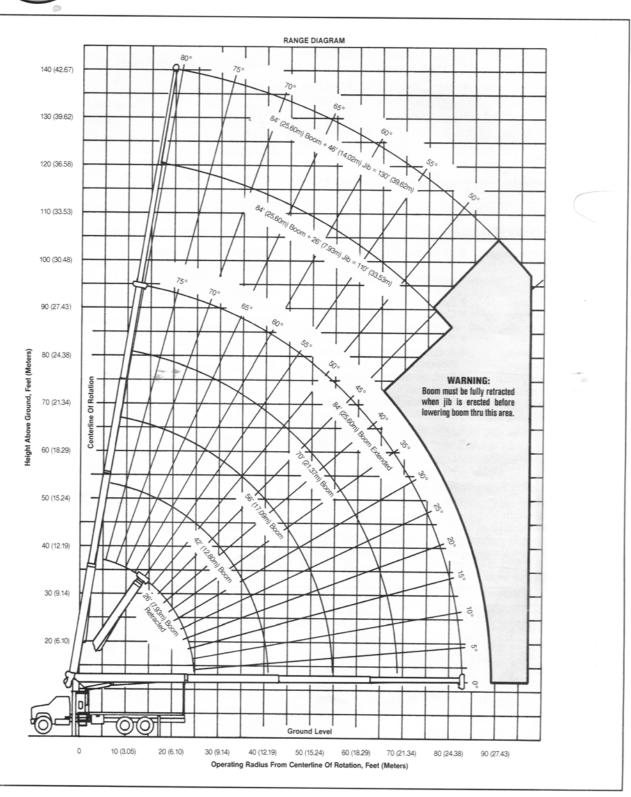
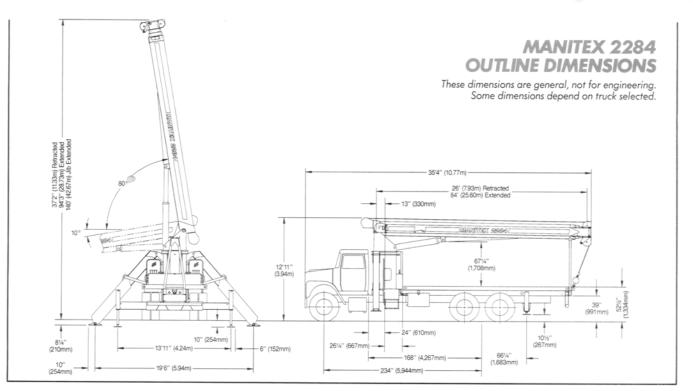


GENERAL SPECIFICATIONS

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
- 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 hydraulic pump
- System pressure gauge
- A-frame link-type outriggers Capacity-alert system, audio/visual
 - Anti-two-block shutoff
 - Audible outrigger/stabilizer motion alarm
 - Back-up alarm
 - Signal horn
 - 300′ (91.44m) of ⁹/16″ (14.3mm) EIPS IWRC wire rope
 - Finish paint in Manitex colors
 - Operator/service/parts manuals

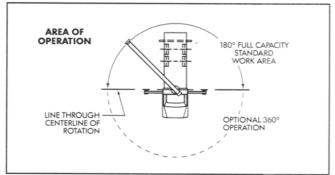
WEIGHTS Total crane, including hydraulic fluid	Lbs. 19,200	Kgs. 8,709
Additions:		
26' (7.93m) fixed-length jib	819	372
46' (14.02m) telescopic jib	1.220	553
15-ton (13.6-mt) single-sheave block	263	119
25-ton (22.7-mt) triple-sheave block		172
Hanger sheave for 5- and 6-part line	38	17
20'4" (6.20m) steel or wood hed	1 900	862

TRUCK CHASSIS DATA

Minimum Requirements:

Some configurations and options may increase requirements

Wheelbase	234"	5,944mm
Cab to axle	168"	4,267mm
Front axle gross weight rating	14,000 lbs	6,350 kgs
Rear axle gross weight rating	38,000 lbs	17,237 kg
Frame section modulus	20.0 in ³	328 cc
	110,000 psi	758,450 kPa
Nominal frame width	34"	864mm



ALLOWABLE LINE PULL										
1-PART LINE	2-PART LINE	3-PART LINE	4-PART LINE	5-PART LINE	6-PART LINE					
OVERHAUL BALL	SINGLE SHEAVE BLOCK	SINGLE SHEAVE BLOCK	DOUBLE SHEAVE BLOCK	AUXILIARY BLOCK DOUBLE SHEAVE BLOCK	AUXILIARY BLOCK TRIPLE SHEAVE BLOCK					
8,500 Lbs. (3,856 Kgs.) ¹ 7,400 Lbs. (3,357 Kgs.) ²	17,000 Lbs. (7,711 Kgs.) ¹ 14,800 Lbs. (6,713 Kgs.) ²	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.) 44,000 Lbs. (19,958 Kgs.)					

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.

With %16" (14.3mm) 6 x 25 IWRC (3.5:1 S.F.) 29,750 Lbs. (13,494 Kgs.) Minimum Breaking Strength 2With %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 9/16'' (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. 8½" (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. Ounted 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.

SOOM 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) x 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

						OUTR	IGGERS AN	D STABILIZ	ZERS EXTER	NDED						
•		Load Rating 26' (7.92m) Boom			Load Rating 42' (12.80m) Boom			Load Rating 56' (17.07m) Boom			Load Rating 70' (21.34m) Boom			Load Rating 84' (25.60m) Boom		
Operatir Feet	ng Radius Meters	Loaded Bm. Angle	Pounds	Kilograms	Loaded Bm. Angle	Pounds	Vilamona	Loaded	Daniel a	Vilanna	Loaded	Daniel de	V:1	Loaded	D d .	V:I.
				_	bm. Angle	rounas	Kilograms	Bm. Angle	Pounds	Kilograms	Bm. Angle	Pounds	Kilograms	Bm. Angle	Pounds	Kilograms
4'	1.22	80°	44,000	19,958												
6′	1.83	77°	34,600	15,695												
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	7,439						
14'	4.27	57°	17,780	8,065	71°	15,660	7,103	76°	14,400	6,532	80°	13,320	6,042			
16′	4.88	51°	15,870	7,199	68°	13,930	6,319	74°	12,780	5,797	78°	11,770	5,339			
20′	6.10	38°	12,800	5,806	62°	11,400	5,171	70°	10,400	4,717	75°	9,570	4,341	78°	8,900	4,037
25'	7.62				54°	9,230	4,187	64°	8,400	3,810	70°	7,710	3,497	74°	7,180	3,257
30′	9.14				44°	7,630	3,461	58°	7,000	3,175	66°	6,410	2,908	71°	5,910	2,681
35′	10.67				33°	6,260	2,839	52°	5,910	2,681	61°	5,410	2,454	67°	4,980	2,259
40′	12.19				14°	4,500	2,041	45°	5,040	2,286	56°	4,630	2,100	63°	4,260	1,932
45'	13.72							37°	4,260	1,932	51°	4,000	1,814	59°	3,670	1.665
50′	15.24							26°	3,470	1,574	45°	3,460	1,569	55°	3,190	1,447
55′	16.76										39°	2,960	1,343	51°	2,770	1,256
60′	18.28										31°	2,430	1,102	46°	2,390	1,084
65′	19.81										21°	1,920	871	41°	2,010	912
70′	21.34											.,0	-	35°	1,620	735
75'	22.86													27°	1,300	590
80′	24.38													19°	990	449
	200							Deductio	on for Sto	wed Jib				17	770	447
			650	295		400	181		300	136		250	113		200	91

	JIB LOAD RATING IN LBS./KGS. WITH OUTRIGGERS AND STABILIZERS EXTENDED								
			Rating 26' (7 All Boom Ler		Jib Load Rating 46' (14.02m) Jib For All Boom Lengths				
Operating Radius Feet Meters		Loaded Bm. Angle Pounds Kilogram:		Kilograms	Loaded Bm. Angle	Pounds	unds Kilograms		
25′	7.62	79°	4,510	2,046					
30′	9.14	76°	3,890	1,765	79°	3,100	1,406		
35′	10.67	74°	3,350	1,519	ZZ° _	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	308		
90'	27.43				48°	520	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 capacityalert 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							
Overhaul Ball	120 Lbs.	(54 Kgs.)					
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.	(64 Kgs.)					
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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