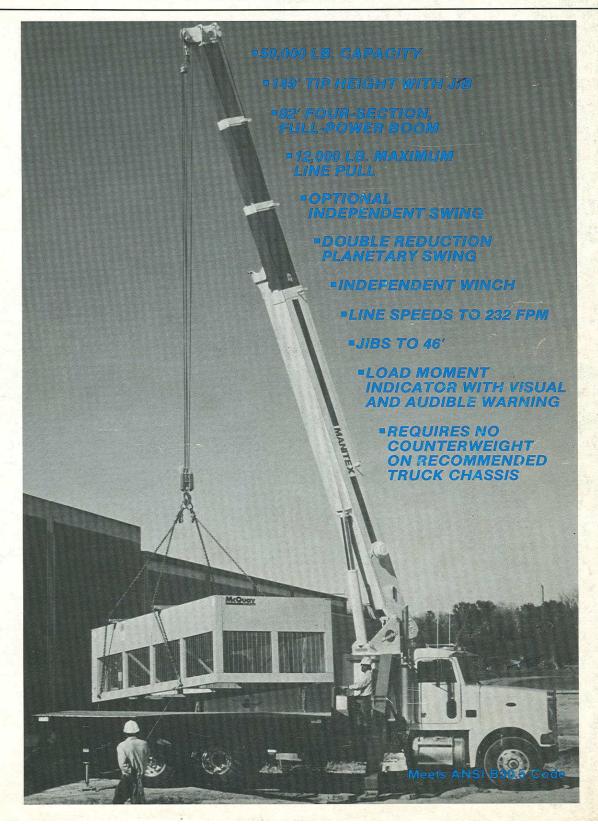


# MODEL 2592 HYDRAULIC CRANE



#### WEIGHTS

The Manitex 2592 includes a 4-section, 92' boom with anti-two-block warning and shutdown system; two-speed hydraulic winch with 300' of 9/16" wire rope and overhaul ball; rotation bearing and swing system; hydraulic fluid; turret; boom luffing cylinder; pedstal with outriggers; control console with operator platforms; sub-frame; rear stabilizers, boom rest and load moment indicator.

**TOTAL CRANE WEIGHT . . . . 20,300#** 

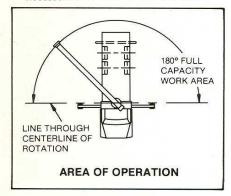
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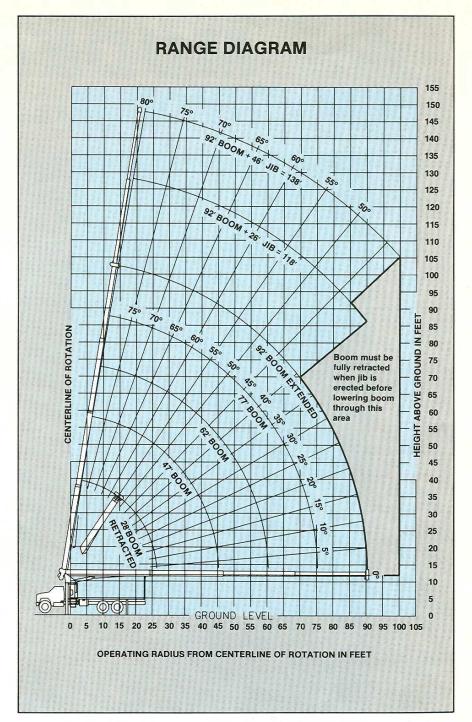
26' fixed-length jib 819#
46' telescopic jib 1,230#
15-ton single-sheave block 263#
25-ton triple-sheave block 380#
Auxillary sheave for 5 & 6-part line 38#
20'4" steel bed

## RECOMMENDED MINIMUM TRUCK CHASSIS

Wheelbase	234"
Cab to axle	168"
Front gross axle weight rating14,	000#
Rear gross axle weight rating 38,	000#
Truck frame section modulus 20.	.0 in <sup>3</sup>
(110,000	PSI)

DO NOT OPERATE A MANITEX HYDRAULIC CRANE OR ACCESSORIES WITHIN 10' OF LIVE POWER LINES.



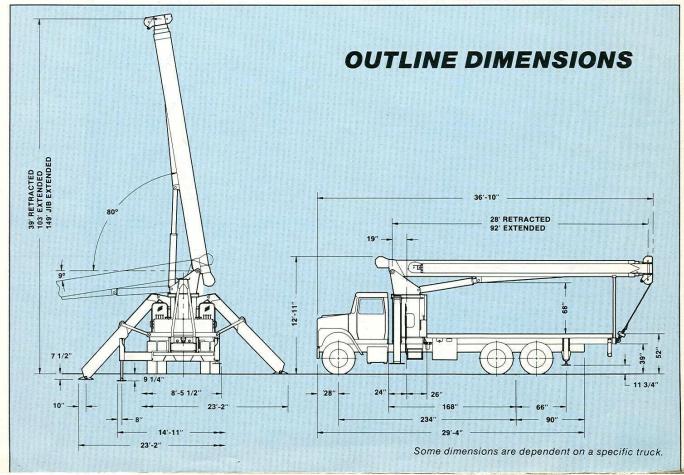


		ALLOWABLE	E LINE PULL			at		
1-PART LINE	2-PART LINE	3-PART LINE	4-PART LINE	5-PART LINE	6-PART LINE	WARNING		
OVERHUAL BALL	SINGLE SHEAVE BLOCK	SINGLE SHEAVE BLOCK	DOUBLE SHEAVE BLOCK	AUXILIARY BLOCK DOUBLE SHEAVE BLOCK	AUXILIARY BLOCK TRIPLE SHEAVE BLOCK	Anti-two-block system must be in good operating condition before operating crane. Refer to Owner's Manual.  Keep at least 3 wraps of load line on drum at all times.		
8,500 LBS	17,000 LBS	త 25,500 LBS	34,000 LBS	42,500 LBS	50,000 LBS	WIRE ROPE 9/16"-6x25 IWRC (3.5:1 S.F.) 29,750 Lbs. Min. Breaking Strength		
7,400 LBS	14,800 LBS	22,200 LBS	29,600 LBS	37,000 LBS	44,400 LBS	9/16"-Rotation Resistant (5.0:1 S.F.) 37,000 Lbs. Min. Breaking Strength		

### **MANITEX 2592 CAPACITY CHART**

LOAD RATINGS IN POUNDS WITH OUTRIGGERS AND STABILIZERS EXTENDED  BASE 1ST BASE BASE BASE BASE BASE BASE BASE BASE												UNDS W	S WITH RS EXTENDED					
Operating	Boom	28'	Boom	47'	Boom	62'	Boom	77'	Boom	92'	9-3-3	FIXE	D JIB	T	TELESCOPIC JIB			
Radius	Angle	Boom	Angle	Boom	Angle	Boom	Angle	Boom	Angle	Boom	Operation	Doom	26' Jib-All	Doom	26' Jib-All	Poom	46' Jib-All	
5'	79°	50000			173.15			100	43.13		Operating Radius	Boom Angle	Boom	Boom Angle	Boom	Boom	Boom	
8'	72°	37800			100	41111			1200	7,732	Hadido		Lengths		Lengths		Length	
10'	68°	32000	78°	20500	1971	11177			68.22	12/25	10'		17777	1		- 27		
12'	63°	26650	75°	20500	79°	20500			Mark C		12'	1	11117	100		1000	2.5	
15'	56°	20900	71°	20500	77°	18300	80°	15000		10.55	15'	33.17	ALC: U	1976		13.5	973	
20'	42°	15000	65°	15000	72°	14800	76°	12700	79°	9900	20'		9-1-23			131	311	
25'	21°	11300	58°	11300	67°	11300	72°	10900	76°	8680	25'	79°	5500	79°	5300	1000		
30'			50°	9170	62°	9170	68°	9170	73°	7740	30'	77°	5000	77°	4850	79°	3400	
35'			41°	7400	56°	7400	64°	7400	70°	6760	35'	75°	4610	75°	4350	77°	3300	
40'			30°	6050	50°	6050	60°	6050	66°	5920	40'	72°	4160	72°	3900	76°	3200	
45'		45.5			43°	5000	55°	5000	63°	5000	45'	70°	3750	70°	3480	74°	3040	
50'					36°	4190	50°	4190	59°	4190	50'	67°	3380	67°	3110	72°	2780	
55'		C10			26°	3400	45°	3400	55°	3400	55'	65°	3070	65°	2800	69°	2520	
60'							39°	2830	51°	2830	60'	62°	2790	62°	2500	67°	2280	
65'							32°	2310	46°	2310	65'	59°	2480	59°	2190	65°	2070	
70'				-			24°	1880	42°	1880	70'	56°	2040	56°	1750	62°	1880	
75'									36°	1550	75'	53°	1670	53°	1380	60°	1710	
80'								100	30°	1240	80'	49°	1350	49°	1060	58°	1520	
85'	OF BETT			- 3					22°	970	85'	46°	1080	46°	780	55°	1240	
90'									2	4 6	90'	42°	840	42°	540	52°	990	
95'											95'		11/4	F.Brg		49°	780	
100'					16					The Heat	100'					46°	580	
	460	460 LBS 270 LBS 210 LBS 170 LBS 140 LBS							LBS	< Deductions for stowed FIXED JIB								
	690	LBS	410	LBS	310	LBS	250	LBS	210	LBS	< Deductions for stowed TELESCOPIC JIB							

- Before operating this equipment, the operator should read and understand the Operator's & Owner's Manual and capacity chart.
- All load ratings below the heavy line on the capacity chart are stability limited capacities, and do not exceed 85% of tipping.
- The operating radius shown in the jib rating charts is for fully extended boom only. When boom is not fully extended, use only loaded boom angle to determine load rating of jib.
- Deductions must be made from the rated load for stowed jib, optional attachments, hooks, load blocks, and other rigging equipment.



## **MODEL 2592 GENERAL SPECIFICATIONS**

**BOOM** — Standard four-section, telescoping, box boom extends from 28' to 92' in just 72 seconds. Consists of a base pinned to the turret and three powered sections that extend and retract on durable, low-maintenance nylon pads. All boom sections are fabricated from high-strength, low-alloy steel. Powered sections extend and retract simultaneously by a hydraulic cylinder and a compound cable-crowd system.

**SWING-AROUND JIBS** — Fabricated from high-strength, lowalloy steel, Manitex swing-around jibs store conveniently along the boom's base section. Available as 26' fixed length or 46' telescopic options, Manitex jibs easily pin-connect to the boom point and are equipped with low-maintenance, non-metallic sheaves.

**WINCH** — Powered by a gear-type hydraulic motor driving a double-planetary reducer. A counterbalance valve and a spring-applied, hydraulically-released, wet-disc brake prevent unexpected payout of hoist rope. Maximum line pull is 12,000 pounds (first layer). Maximum line speed is 232 FPM.

TURRET — A precision-bored weldment, the turret supports the boom and the boom-luffing cylinder.

**SWING SYSTEM** — Generating swing speeds to 1.5 RPM, the system is powered by a hydraulic motor that drives through a two-stage planetary reducer to a pinion meshing with the ring gear on the rotation bearing. For operator safety, the pinion and ring gear are both fully enclosed. The system also includes a wet-disc brake, which is spring-set automatically when the swing control lever is in neutral position. Maximum non-continuous swing arc is 372°.

**BOOM HOIST** — A double-acting hydraulic cylinder accurately positions the boom at any angle from 9° below horizontal to 80° above, covering the entire range in approximately 42 seconds. A counterbalance valve prevents the boom from lowering unexpectedly.

**ROTATION BEARING** — An antifriction bearing designed for long life and easy maintenance enables smooth, efficient swinging of the turret and boom. The inner race is bolted to the pedestal; the outer race to the turret.

**PEDESTAL** — Bolted to the sub-frame and to tie plates beneath the truck chassis, the pedestal is a rugged steel weldment which solidly supports the swing system, turret, front outriggers, and operator's stations.

**SUB-FRAME** — Mounted on top the truck chassis, the sub-frame resists reactions imposed by lifted loads, thereby minimizing stress on the truck. Clamped securely to the chassis by threaded rods and tie plates, the sub-frame is mounted without drilling, welding, or other modification of the truck chassis.

**CONTROL SYSTEM** — Twin platforms, with foot throttle, are mounted on opposite sides of the pedestal. Manually-actuated hydraulic controls with four-way, open-center valves assure smooth, precise operation. Controls arranged in the ANSI B30.5 sequence.

HYDRAULIC SYSTEM — A power take off on truck's transmission drives a pump that powers all functions. The open-loop system includes a 80-gallon reservoir with magnetic drain plug, a 10-micron filter in the return line, and a system pressure gauge. All high-pressure fittings are SAE face seal O-ring, O-ring boss, or bolted-flange connection. With the standard pump operating at 2,000 RPM

and 100 PSI, maximum flow to the winch is 35 GPM; maximum winch pressure is 2,800 PSI; maximum flow to all other functions is 18 GPM; maximum swing pressure 1,500 PSI; and maximum pressure in all other circuits 2,800 PSI.

**FRONT OUTRIGGERS** — Extend and retract in an arching motion that minimizes skidding during setup. Controlled by hydraulic cylinders with counterbalance valves, the outriggers retract to an 8'0" width for easy roadability, extend to 21'6" for lifting stability, and provide a maximum raise of 7 1/2".

**REAR STABILIZERS** — Out-and-down rear stabilizers extend to 13'11" for lifting stability and retract to 8'0" for road travel. The two horizontal beams extend and retract by a double-acting hydraulic cylinder. Hydraulic leveling jacks, mounted vertically to the end of each beam, are equipped with 12" diameter pads. Beams and jacks are controlled independently.

**BED** — Optional 8' x 20' Manitex bed bolts to the sub-frame without welding or match drilling. Constructed of steel plate with cross sills every 12".

**BOOM REST** — An easily-removable steel fabrication set into slots at the rear of the sub-frame supports the boom during travel.

**BOOM POINT** — Three low-maintenance, non-metallic sheaves mounted on heavy-duty antifriction bearings guide the load line over the boom point and allow up to four-part line operation. An optional single-sheave hanger permits reeving six-part line for maximum capacity.

**HOOK BLOCKS** — A 5-ton capacity swivel hook with weight ball is standard. Options include a single-sheave block for up to three parts of line; a triple-sheave block for up to four parts of line; and a single-sheave hanger used with the triple-sheave block for five- and six-part line.

**SAFETY FEATURES** — Anti-two-block audible warning and shutdown, engine stop switches, warning horn, backup alarm and load moment indicator with visual and audible warning are standard.

**WARRANTY** — Manitex hydraulic cranes are backed with a comprehensive 12-month warranty. A network of distributors provides parts and service support.

#### **OPTIONS**

- 9/16" rotation resistant wire rope
- Hook blocks for two to six parts of line
- Single-sheave hanger for five and six part line
- 26' fixed-length jib
- 46' telescopic jib
- Remote controls
- Man baskets
- Pallet forks
- Roofer's tools

- Clamshell buckets
- Hydraulic hose reel
- Front bumper outriggers for lifting over front of truck
- Hydraulic swivel for 360° continuous rotation
- Oil cooler for duty-cycle applications
- LMI overload shutdown system
- Dunnage boxes
- 8' x 20' wood or steel bed
- Trash dumpster
- Various mounting configurations

#### MANITEX, INC.

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Because of a program of continuing improvements, Manitex, Inc. reserves the right to change this description and product specifications, at any time, without notice.

