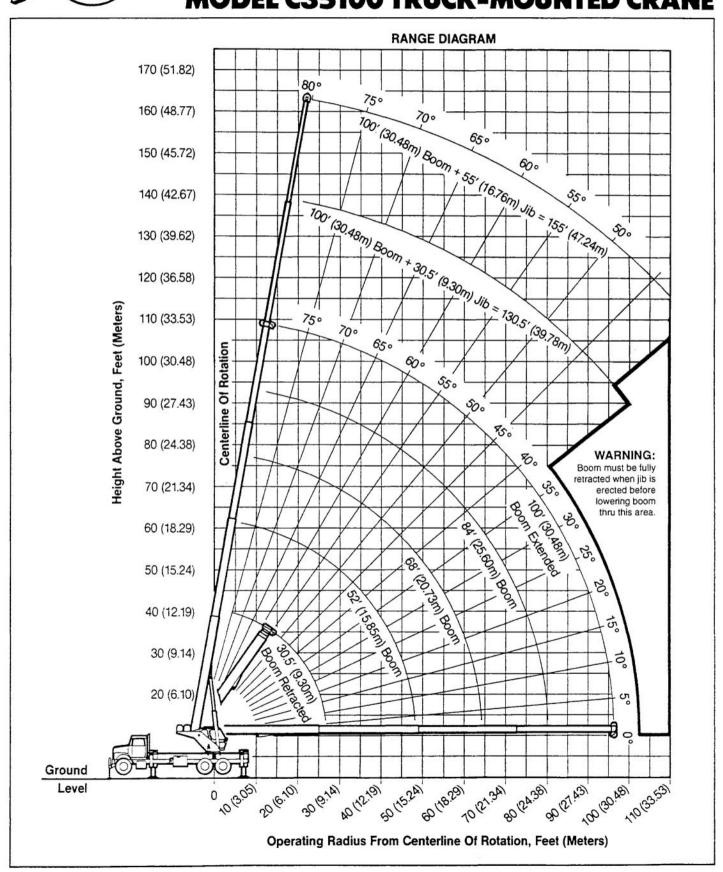


GUAY

GENERAL SPECIFICATIONS MODEL C35100 TRUCK-MOUNTED CRANE



MODEL C35100 LOAD RATING CHART

360° operation with front-mounted outrigger.

This capacity chart is for reference use only and must not be used for a specific serial number crane.

MEETS ANSI B30.5 REQUIREMENTS

				MAII	N BOOM CA	PACITIES —	OUTRIGGER	S FULLY EXTE	NDED — LC	ADED MAIN	BOOM AN	GLE				
Load Rating 30.5' (9.30m) Boor		0m) Boom	Load Rating 52' (15.85m) Boom			Load Rating 68' (20.73m) Boom			Load Rating 84' (25.60m) Boom			Load Rating 100' (30.48m) Boom				
Operatir Feet	ng Radius Meters	Loaded Bm. Angle	Pounds	Kilograms	Loaded Bm. Angle	Pounds	Kilograms	Loaded Brn. Angle	Pounds	Kilograms	Loaded Bm. Angle	Pounds	Kilograms	Loaded Bm. Angle	Pounds	Kilograms
5′	1.52	74°	70,000	31,752												
8′	2.44	68°	52,350	23,746												
10'	3.05	64°	45,780	20,765	76°	27,100	12,292							1		· · · · · ·
12'	3.66	60°	40,500	18,371	73°	27,100	12,292	78°	27,100	12,292						
15′	4.57	53°	34,230	15,526	70°	27,100	12,292	76°	27,100	12,292	79°	21,100	9,570			
20'	6.10	40°	24,680	11,195	64°	24,230	10,990	71°	22,000	9,979	76°	18,500	8,391	79°	14,000	6,350
25′	7.62	20°	18,840	8,546	58°	19,340	8,772	67°	18,600	8,437	72°	15,780	7,158	76°	12,670	5,747
30′	9.14				51°	15,400	6,985	62°	15,550	7,053	68°	13,550	6,146	73°	11,020	4,999
35′	10.67				43°	12,550	5,692	57°	12,700	5,760	65°	11,760	5,334	70°	10,000	4,535
401	12.19				34°	9,720	4,408	52°	9,920	4,499	61°	10,040	4,554	67°	8,850	4,014
45′	13.72				22°	7,690	3,488	46°	7,870	3,569	57°	7,980	3,619	63°	7,850	3,561
50′	15.24						<u> </u>	39°	6,350	2,880	52°	6,460	2,930	60°	6,530	2,961
55′	16.76							32°	5,170	2,345	48°	5,280	2,394	56°	5,340	2,422
60'	18.29							22°	4,240	1,923	43°	4,340	1,968	53°	4,400	1,995
65′	19.81										37°	3,570	1,619	49°	3,630	1,646
70′	21.34										31°	2,930	1,329	45°	3,000	1,360
75′	22.86										22°	2,400	1,088	40°	2,460	1,115
80′	24.38										7°	1,940	879	35°	2,000	. 907
85′	25.91													30°	1,600	725
901	27.43													22°	1,250	566
95′	28.96													110	940	426
							Dec	luctions for J	libs							
	Fixed Jib (Slowed) 590 268			350	159		270	122		220	100		180	82		
	Fixed Jib (Erected) 2,050 930			1,740	789		1,640	744		1,580	717		1,530	694		
Tele	Telescopic Jib (Stowed) 890 404		404		530	240		400	181	I	330	150		280	127	
Telesco	pic Jib (Ret.) Erected	2,920	1,324		2,490	1,129		2,350	1,066		2,260	1,025		2,200	998
Telesco	pic Jib (Ext.) Erected	3,560	1,615		2,870	1,302		2,630	1,193		2,490	1,129		2,390	1,084

JIB CAPACITIES — OUTRIGGERS FULLY EXTENDED — LOADED MAIN BOOM ANGLE											
		Fixed	d Jib Load R	ating	Telescopic Jib Load Rating						
		30.5' (9.30r	n) Jib - All E	Boom Lgths.	30.5' (9.30n	n) Jib - All E	Boom Lgths.	55' (16.7m) Jib - All Boom Lgths.			
Operating Radius Feet Meters		Loaded Main Bm. Angle Pounds Kilograms		Loaded Main Bm. Angle	Pounds	Kilograms	Loaded Main Bm. Angle	Pounds	Kilograms		
30′	9.14	77°	7,300	3,311	77°	7,000	3,175				
35′	10.67	75°	6,800	3,084	75°	6,500	2,948	78°	4,000	1,814	
40′	12.19	73°	6,280	2,849	73°	5,900	2,676	76°	3,850	1,746	
45′	13.72	71°	5,720	2,595	71°	5,350	2,427	74°	3,700	1,678	
50′	15.24	69°	5,230	2,372	69°	4,850	2,200	73°	3,550	1,610	
55′	16.76	66°	4,780	2,168	66°	4,380	1,987	71°	3,310	1,501	
60'	18.29	64°	4,370	1,982	64°	3,960	1,796	69°	3,090	1,402	
651	19.81	610	3,930	1,782	61°	3,520	1,596	67°	2,900	1,315	
70′	21.34	59°	3,280	1,487	59°	2,870	1,301	65°	2,710	1,229	
75′	22.86	56°	2,730	1,238	56°	2,320	1,052	63°	2,550	1,157	
80′	24.38	53°	2,260	1,025	53°	1,850	839	61°	2,400	1,089	
85′	25.91	50°	1,850	839	50°	1,440	653	59°	2,140	970	
90′	27.43	47°	1,500	680	47°	080, 1	489	56°	1,780	807	
95′	28.96	43°	1,190	539	43°	770	349	54°	1,460	662	
100′	30.48	40°	910	412	40°	500	226	51°	1,170	530	
1051	32.00							49°	920	417	
110′	33.53							46°	690	313	
1151	35.05							43°	490	222	

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						
Auxiliary Block						
Single-Sheave Load Block 430 Lbs. (195 Kgs)						
Triple-Sheave Load Block 630 Lbs. (285 Kgs) Swing-Around Jib						
Auxiliary Sheave						

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

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

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.

All load ratings below the heavy line on the capacity charts are stability limited capacities, and do not exceed 85% of tipping.

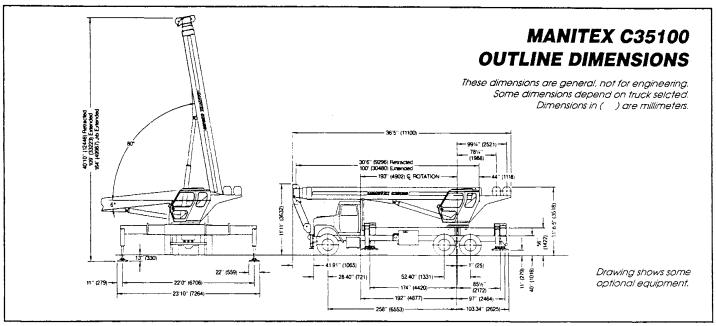
Crane load ratings on outriggers are based on freely suspended loads with the machine leveled and standing on a firm uniform supporting surface. No attempt shall be made to move a load horizontally on the ground in any direction.

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STANDARD EQUIPMENT

- 4-section telescopic proportional boom 30'6" (9.30m) to 100' (30.48m)
- 55' (16.76m) 2-piece tele scopic swing-around jib
- Turret, rotation bearing & swing system
- Subframe
- Out-and-down outriggers
- Front-mounted outrigger
- Continuous rotation
- Full-vision deluxe operator's cab
- Electronic LMI with lever lock-out and with read-out for boom angle, length, load weight and radius
- Dual-axis palm controls with 2-speed buttons
- 2-speed planetary hoist
- Anti-two-block shutoff
- Back-up alarm
- Signal horn

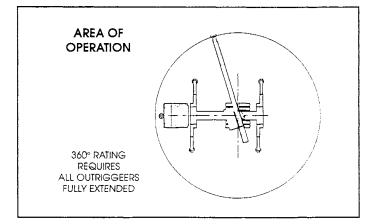
- Full instrumentation on dash panel inside operator's cab
- Lift-up arm-rest neutralizes control functions when raised
- Foot-operated swing brake
- Spring-applied hydraulically released swing parking brake
- 5-sheave boom point
- Audible outrigger motion alarm
- 3-section vane-type hydraulic pump
- Removable boom rest
- 100-gallon (379-liter) hydraulic reservoir with suction strainer and inline filters
- 370' (112.78m) of 5/8" (16mm) rotation-resistant wire rope
- Finish paint in Manitex colors
- Cab heater, propane
- Operator/service/parts manuals
- Outrigger Controls
- Rotation swing lock 360°

TRUCK	CARRIEF	R DATA
Recommen	ded Require	ments:

Some configurations and options may change requirements

Wheelbase	258" 192"	6,553 mm 4.877 mm
Front axle gross weight rating	18,000 lbs.	8,165 kgs.
Rear axle gross weight rating	38,000 lbs.	17,237 kgs.
Frame section modulus	25.0 in ³	17,237 kgs. 410 cc
Traine section modulus		
	110,000 psi	758,422 kPa

Consult factory for exact Truck Specs.



	- ROTATION SWING TOCK 300						
WEIGHTS	Lbs.	Kgs.					
Total crane, including hydraulic fluid	31,965	14,499					
Weight Adjustments:							
30'6" (9.30m) fixed-length jib	. (580)	(263)					
Deletion of 55' (16.76m) telescope jib	. (1,700)	(771)					
5-ton (4.5-mt) hook and ball		82					
15-ton (13.6-mt) single-sheave block		195					
35-ton (31.75-mt) triple-sheave block		286					
Auxiliary block for 7-part line		23					
Wire rope for auxiliary hoist	. 315	143					

	WARNING								
1 PART LINE	2 PART LINE	3 PART LINE	4 PART LINE	5 PART LINE	6 PART LINE	7 PART LINE	WARINING		
OVERHAUL BAUL	SINGLE SHEAVE	SINGLE SHEAVE	S DOUBLE SHEAVE	CONTRACTOR	RIPLE SHENVE BLOCK	IRPLE SIENVE AUXILIARY 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.		
9,080 lbs. (4,118 kgs.)	18,160 lbs. (8,237 kgs.)	27,240 lbs. (12,356 kgs.)	36,320 lbs. (16,474 kgs.)	45,400 lbs. (20,593 kgs.)	54,480 lbs. (24,712 kgs.)	63,560 lbs. (28,830 kgs.)	5/8" ROT RESISTANT 5.0:1 S.F.) 45.400 lbs. MIN. BREAKING STRENGTH		
10,000 lbs. (4,536 kgs.)	20,000 lbs. (9,072 kgs.)	30,000 lbs. (13,608 kgs.)	40,000 lbs. (18,144 kgs.)	50,000 lbs. (22,680 kgs.)	60,000 lbs. (27,216 kgs.)	70,000 lbs. (31,752 kgs.)	5/8" – 6 x 25 IWRC 3.5:1 S.F.) 35,000 lbs. MIN. BREAKING STRENGTH		

STANDARD SPECIFICATIONS AND FEATURES

BOOM—30'6' (9.30m) to 100' (30.48m). 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. Maximum tip height 109' (33.22m).

TELESCOPIC SWING-AROUND JIB—Working lengths 30'6* (9.30m) and 55' (16.76m). Stows along boom base. Manually pinned in retracted or extended position. Maximum tip height 164' (50m).

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

MAIN HOIST—Theoretical maximum line speed 425 fpm (129.54 mpm). Maximum bottom-layer line pull 14,300 lbs. (6,486 kgs). Two-speed planetary reducer. Spring-applied, pressure-released internal brake.

WIRE ROPE—370' (112.78 m) of 5/8' (16mm) diameter, rotation resistant.

BOOM ELEVATION—Double-acting hydraulic cylinder. Working range from 6° below horizontal to 80° above.

SWING SYSTEM—Externally mounted, double-reduction planetary driven by hydraulic motor. Maximum swing speed 2.50 rpm. Foot-applied, swing brake. Spring-applied hydraulically released parking brake. Ball-bearing swing circle with external gear. Continuous rotation.

OUTRIGGERS—8' (2.44m) retracted; 22' (6.71m) extended. Out-and-down type with double-acting hydraulic cylinders operated independently for precise leveling. Front-bumper outrigger. Controls require 2-hand operation located at both sides of carrier and in operator's cab. Bubble level near all three locations of outrigger controls. 22' (559mm) aluminum pads with "quick release" collar locks.

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 carrier. 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.

OPERATOR'S CAB—Full-vision, all steel fabricated and acoustically insulated. Lockable sliding access door, sliding right window, opening rear window, and opening skylight with electric wiper. Tinted safety glass. Lexan skylight. Dual-axis palm controls mounted in arm-rests. Deluxe fully adjustable (6-way) seat with angle back. Front windshield wiper and washer. Dash mounted lights for engine functions. On/off rocker switches in cab for engine and crane functions. Adjustable hand control throttle. Cab fan and heater. Tachometer. Fire extinguisher. Load rating charts.

CONTROL SYSTEM—Two dual-axis palm controls. Right control activates main hoist and boom elevation. Left control activates swing and boom telescope. Handles include 2-speed buttons for main and optional auxiliary hoists. Fully proportional electrohydraulic controls. Free swing with foot activated swing brake. Manually set, adjustable hand throttle and foot operated throttle. Spring applied, hydraulically released swing parking brake.

HYDRAULIC SYSTEM—A 3-section vane pump direct mounted to power take-off on truck transmission provides 43 gpm (163 lpm) to the hoist, 35 gpm (132 lpm) to the boom hoist and telescope circuit, and 12 gpm (45 lpm) to the swing and outrigger circuit. 100-gallon (379-liter) baffled reservoir includes two 10-micron filters in the return lines and suction strainer. All fittings are ORS type and SAE. System includes oil cooler.

HYDRAULIC CYLINDERS—All load-holding cylinders are equipped with integral holding valves.

BOOM REST—Heavy-duty, removable.

LOAD MOMENT INDICATOR—Senses boom hoist cylinder pressures, boom length, and boom angle. Visual and audible alarm indicates approaching overload. Inside operator's cab, LMI displays boom length, angle, load weight and radius. Shutdown system prevents continuing overload.

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

ELECTRICAL—12-volt direct current. Weatherproof connectors. All circuits fuse-protected. Easily accessible collector ring. Modular design. Main-line circuit breakers. Color-coded and numbered wiring.

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

MANUALS—Operator and owner manuals depict correct crane operation, maintenance procedures and parts listing.

OPERATOR ASSIST FEATURES

- Anti-two-block audio/visual warning and shutoff
- Load moment indicator, audio/visual with shutoff
- Selective hoist lockout
- Load chart/range diagram
- Audible outrigger motion alarm
- Back-up alarm
- On/off switch neutralizes controls
- Outrigger control in cab
- Swing parking brake
- Horn

OPTIONS

- Swing-around 1-piece iib, 30'6" (9.30m)
- Hook block for 2- to 7-part load line
- Auxiliary block for 7-part line
- Auxiliary sheave boom point
- Aerial baskets,1- or 2-person
- Top mounted, self leveling, rotatable work platform
- Auxiliary hoist, same as main, less rope

- Hoist drum rotation indicators
- Dunnage/tool boxes
- AM/FM cassette stereo radio
- Special paint
- Roofer's package
- Cab spotlight/Strobe light
- Winch high speed on/off switch
- Engine distress lights