



features

- 30 Ton (27,3 mton) Capacity
- 4-Section 102' (31 m) Proportional Boom
- 3-Section 71' (21,6 m) Proportional Boom
- 2-Section, 26' (7,9 m) to 46' (14 m) Jib
- 112' (34,1 m) Maximum Main Boom Tip Height
- 157' (47,8 m) Maximum Tip Height
- 21' 6" (6,6 m) A-frame Outriggers
- 13' 7" (4,1 m) Out-and-Down Rear Stabilizers
- FirstUp for Optional Front Stabilizer Auto Retract
- 2-Speed Planetary Hoist with Grooved Drum and Negative Draft Flange
- Load Moment Indicator with Digital Display, CAN Bus, Overload Shutdown and Internal Boom Length Cable
- Radio ATB
- Rugged, Weatherproof Electrical System with Circuit Status LEDs
- Removable Boom Rest
- System Pressure Gauge
- Clamp-On Mounting
- Manitex UPTIME Comprehensive Support



series 3001

BOOM TRUCKS

product guide

series 3001

GENERAL SPECIFICATIONS

BOOM

Booms – Inverted T-cross section, 4-section telescoping type, extended and retracted proportionally by a double-acting hydraulic cylinder and cable-crowd system. Easily replaceable and adjustable high-density nylon slide pads.

30102 – 4-Section 30' 6" (9,3 m) to 102' (31 m). 2-section, 26' (7,9 m) to 46' (14,0 m) jib.

3071 – 3-Section 28' (8,5 m) to 71' (21,6 m).

Quick Reeve Boom Point – Two high-density nylon load sheaves mounted on heavy-duty roller bearings. Two removable pin-type rope guards.

Boom Elevation – Double-acting hydraulic cylinder. Working range from 9° below horizontal to 80.6° above.

Load Hook – 5-ton (4,5 mton) capacity hook with heavy-duty swivel and weight is provided for single-line operation.

HOIST

Hoist – Maximum theoretical line speed 300 fpm (91,4 mpm). Maximum theoretical bottom-layer line pull 11,500 lb (5 216 kg). Two-speed planetary reducer. Wet multi-disc internal brake is spring-applied, pressure-released.

Wire Rope – 335' (102,1 m) of 9/16" (14,3 mm) rotation resistant type.

SWING SYSTEM

Externally mounted, double-reduction planetary driven by hydraulic motor. Maximum theoretical swing speed 1.5 rpm. Spring-applied, pressure-released parking brake. Ball-bearing swing circle with external gear. 372° non-continuous rotation.

OUTRIGGERS

A-Frame Link Type (standard) - Equipped with double-acting hydraulic cylinders operated independently for precise leveling. Bubble level located near outrigger controls.

Out-and-Down Style Outriggers (optional) -

Operated independently for precise leveling. 22' (6,7m) spread at full extension, 13'-11" (4,2 m) spread at intermediate extension and 7'-2" (2,2 m) retracted positions. 16" (406mm) diameter floats. Bubble level located near outrigger controls.

STABILIZERS

Underframe out-and-down type with double-acting hydraulic cylinders operated independently for precise leveling.

MOUNTING

Mounting – Pedestal and subframe are mounted to chassis by threaded rods and clamp plates. No welding, drilling, or bolting to truck frame is required.

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.

Boom Rest – Heavy-duty fabrication. Easily removed to simplify loading and unloading truck deck.

CONTROL SYSTEM

Dual operator platforms are equipped with four 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, boom-angle indicator, bubble levels, beverage container, load chart, and range diagram.

HYDRAULICS

Hydraulic System – A 3-section gear pump direct-mounted to power take-off on truck transmission provides 32 gpm (123 lpm) to the hoist, 10 gpm (38 lpm) to the swing circuit and 21 gpm (78 lpm) to the other crane functions. 70-gallon baffled reservoir includes suction ball valve with strainer two 25-micron filters in the return line. Use of SAE O-ring and face seal O-ring hydraulic fittings throughout system.

Hydraulic Cylinders – All load-holding cylinders are equipped with integral holding valves.

WARNING SYSTEMS

Load Moment Indicator – CAN bus system maximizes expansion capabilities. Senses boom hoist cylinder pressure, boom length and boom angle. Audio-visual warning indicated overload conditions and overload shutoff feature prevents continuing overload. Operator can access all relative crane configuration and load conditions via display at the operator station. Internal boom length cable.

Radio Anti-Two-Block System – Audible warning and shutoff functions prevent hook from contacting boom point. Wireless system minimizes down time typically associated with damaged cables in wired systems.

Back-Up Alarm – Supplied on factory-mounted cranes, electronic audible motion alarm activated when truck transmission is in reverse gear.

GENERAL

Electrical – State-of-the-art, weather-resistant components throughout. Hermetically sealed power in relays. Enclosure includes power in relays and circuit status LEDs. Designed to withstand high pressure washing and varying climates.

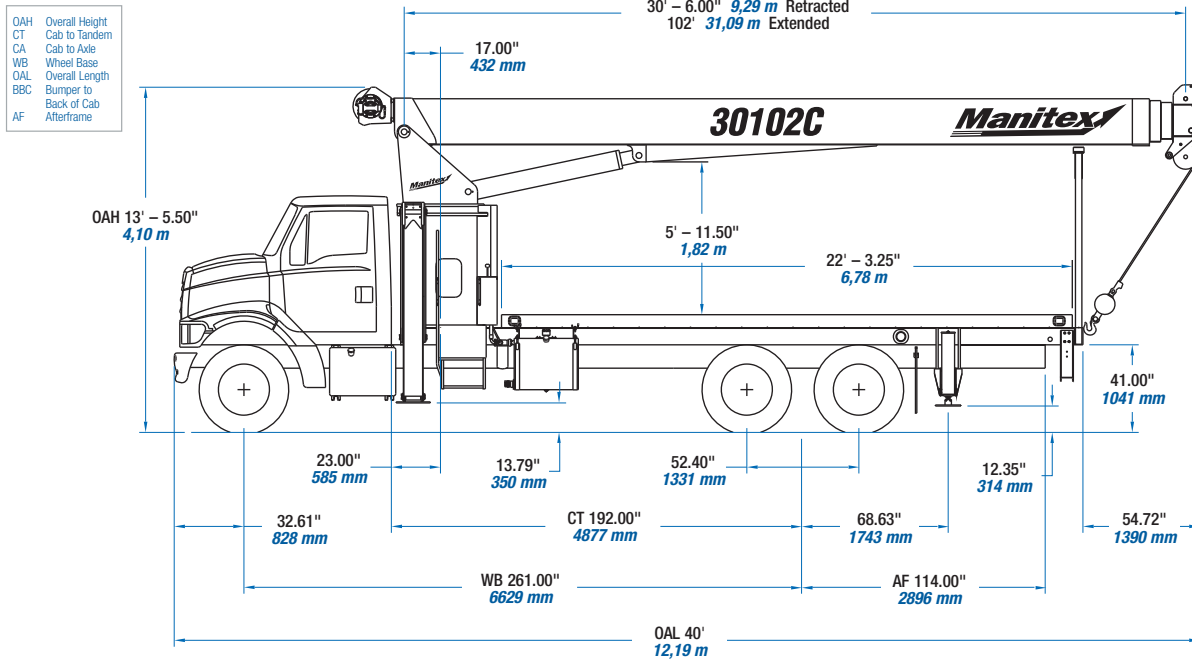
Design/Welding – Design conforms to ANSI B30.5. Welding conforms to AWS D1.1. Tested to SAE 1063 and SAE 765.

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 and workmanship.

* In order to ensure continuous improvement, specifications may change without notice.



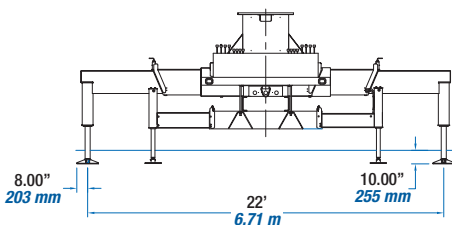


CHASSIS DATA	3071C	30102C
Wheelbase (WB)	Consult Factory	253" 6 426 mm
Cab to Tandem (CT)	Consult Factory	184" 4 673 mm
After Frame (AF)	Consult Factory	114" 2 895 mm
Frame Section Modulus at 180° Area of Operation	30.0 in ³ 110,000 psi 758 422 kPa	30.0 in ³ 110,000 psi 758 422 kPa
Frame Section Modulus at 360° of Operation	30.0 in ³ 110,000 psi 758 422 kPa	30.0 in ³ 110,000 psi 758 422 kPa
Front Axle Gross Weight Rating	Consult Factory	18,000 lb 8 181 kg
Rear Axle Gross Weight Rating	Consult Factory	34,000 lb 15 422 kg
Minimum Truck Axle Weight - Front**	8,400 lb 3 818 kg	8,400 lb 3 818 kg
Minimum Truck Axle Weight - Back**	8,400 lb 3 818 kg	8,400 lb 3 818 kg
Nominal Frame Width	34" 864 mm	34" 864 mm

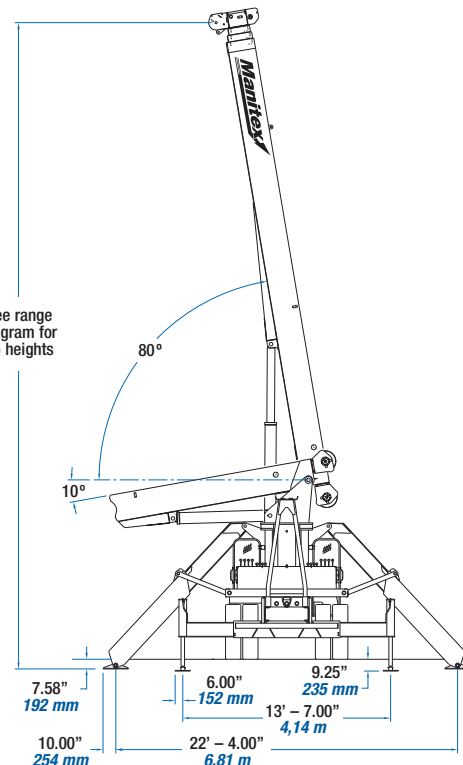
*Frame section modulus at 360° area of operation requires front bumper stabilizer.
 **Minimum chassis weight is required to meet 85% stability requirements.
 Chassis data is general – not for engineering. Some dimensions depend on truck selection.

WEIGHTS	3071C	30102C
Total Crane - Standard	19,446 lb 8 821 kg	21,738 lb 9 860 kg
Total Crane - Out-and-Down Outriggers	20,445 lb 9 274 kg	22,571 lb 10 238 kg
22' (6,71 m) Flat Bed	2,000 lb 907 kg	2,000 lb 907 kg
26' (7,93 m) Fixed Length Jib	n/a	832 lb 377 kg
26' - 46' (7,93 m - 14,02 m) Telescopic Jib	n/a	1,226 lb 556 kg

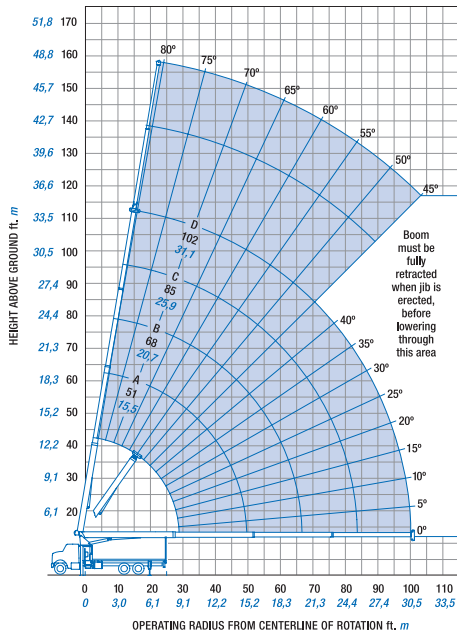
MAXIMUM TIP HEIGHT	3071C	30102C
Configuration	Boom 71' 21,6m	Boom 102' 31 m
Extended Boom	82' 24,9 m	112' 33,9 m
Fixed or Retracted Jib	n/a	137' 42 m
Extended Jib	n/a	157' 48 m



OPTIONAL OUTRIGGER-STABILIZER COMBINATION



STANDARD OUTRIGGER-STABILIZER COMBINATION

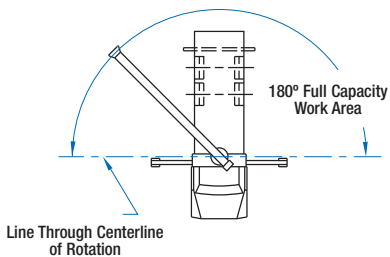


OUTRIGGERS AND STABILIZERS EXTENDED: MODEL 30102C

MAIN BOOM LOAD RATINGS												JIB LOAD RATINGS														
		Boom Length		A		B		C		D		Fixed Jib		Telescopic Jib												
Operating Radius		30.5 Feet 9,29 Meters		51 Feet 15,54 Meters		68 Feet 20,72 Meters		85 Feet 25,90 Meters		102 Feet 31,08 Meters		26 Feet 7,92 Meters		26 Feet 7,92 Meters		46 Feet 14,02 Meters										
Feet	Meters		lb.	kg.		lb.	kg.		lb.	kg.		lb.	kg.		lb.	kg.		lb.	kg.							
5	1,52	80°	60,000	27 216																						
8	2,43	75°	39,690	18 003																						
10	3,05	71°	33,510	15 200	79	22,500	10 206																			
12	3,65	67°	29,120	13 209	77	22,500	10 206																			
15	4,57	60°	24,440	11 086	73	21,710	9 847	79	20,590	9 339																
20	6,09	48°	19,280	8 745	67	16,910	7 670	74	15,830	7 180	78	14,420	6 541	81	10,500	4 763										
25	7,62	33°	15,480	7 022	61	13,850	6 282	70	12,840	5 824	75	12,180	5 525	78	9,650	4 377	81	5,300	2 404	81	5,100	2 313				
30	9,14				54	11,700	5 307	65	10,770	4 885	72	10,140	4 599	76	8,670	3 933	79	5,300	2 404	79	5,100	2 313	81	3,050	1 383	
35	10,66				47	9,770	4 432	60	9,240	4 191	68	8,640	3 919	73	7,670	3 479	77	4,990	2 263	77	4,730	2 145	79	3,050	1 383	
40	12,19				38	7,510	3 406	55	7,720	3 502	64	7,490	3 397	70	6,490	2 944	75	4,580	2 077	75	4,310	1 955	77	3,050	1 383	
45	13,71				27	5,910	2 681	50	6,110	2 771	60	6,220	2 821	66	5,590	2 536	72	4,190	1 901	72	3,910	1 774	76	3,050	1 383	
50	15,24							43	4,920	2 232	56	5,030	2 282	63	4,860	2 204	70	3,830	1 737	70	3,550	1 610	74	2,910	1 320	
55	16,76							36	3,990	1 810	51	4,100	1 860	60	4,160	1 887	68	3,480	1 579	68	3,110	1 411	72	2,740	1 243	
60	18,28							28	3,250	1 474	47	3,360	1 524	56	3,420	1 551	65	3,020	1 370	65	2,670	1 211	70	2,590	1 175	
65	19,81							15	2,630	1 193	41	2,760	1 252	53	2,820	1 279	63	2,630	1 193	63	2,280	1 034	68	2,410	1 093	
70	21,33										36	2,250	1 021	49	2,320	1 052	60	2,310	1 048	60	1,950	885	66	2,130	966	
75	22,86										29	1,820	826	45	1,890	857	57	2,010	912	57	1,670	757	63	1,880	853	
80	24,38										19	1,450	659	40	1,530	694	54	1,640	744	54	1,340	608	61	1,610	730	
85	25,90													36	1,210	549	51	1,320	599	51	1,030	467	59	1,400	635	
90	27,43													29	930	422	48	1,050	476	48	750	340	56	1,200	544	
95	28,96													22	690	313	45	800	363	45	500	227	54	970	440	
100	30,48																42	580	263				51	750	340	
105	32,00																						48	550	249	
			490	222		290	131		220	100		180	81		150	68	Deductions: Stowed Fixed Jib									
			730	331		440	200		330	150		260	118		220	100	Deductions: Stowed Telescopic Jib									

Meets ANSI B30.5 Requirements - Do not operate crane or accessories within 10' (3.05m) of live power lines.
 NOTICE: This chart is for reference only and must not be used for lifting purposes. Consult factory for other boom options.

AREA OF OPERATION



DEDUCTIONS

Auxiliary Block	50 lb 22.72 kg
Auxiliary Block	50 lb 22.72 kg
Load Block	See block manufacturer nameplate
Overhaul Ball	See overhaul ball manufacturer nameplate
Hose Reel	140 lb 63.64 kg
Swing Around Jib* (Stowed)	See load rating chart

WEIGHTS

1 Part Line	2 Part Line	3 Part Line	4 Part Line	5 Part Line	6 Part Line	7 Part Line	WARNING
							<p>Anti-two-block system must be in good operating condition before operating crane. Refer to the owner's manual. Keep at least three wraps of load line on the drum at all times.</p>
8,500 lb 3 856 kg	17,000 lb 7 711 kg	25,500 lb 11 567 kg	34,000 lb 15 422 kg	42,500 lb 19 278 kg	51,000 lb 23 133 kg	60,000 lb 27 216 kg	
7,400 lb 3 357 kg	14,800 lb 6 713 kg	22,200 lb 10 070 kg	29,600 lb 13 426 kg	37,000 lb 16 783 kg	44,400 lb 20 140 kg	51,800 lb 23 496 kg	
							<p>.5625" 6 x 25 IWRC (3.5:1 SF) - 29750 lb. min. breaking strength</p> <p>.5625" ROT RESISTANT (5.0:1 SF) - 37000 lb. min. breaking strength</p>

BOOM AND JIB COMBINATIONS

3071C 71' 3 - Section Boom



30102C 102' 4 - Section Boom 26' - 46' 2 - Section Jib



UPTime is the Manitex commitment to complete support of thousands of units working every day.

UPTime

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- Utilizes the efficiency of UPNet online parts order system.
- Relies on Manitex's UPTrak support tracking system for performance analysis and resource allocation.
- Features REMan, Manitex's cost effective rebuild/exchange program.
- Provides expert service technicians for troubleshooting and site visits.
- Mandates training; at our facility and yours. It includes coordinated support from all component suppliers.
- Involves every Manitex team member in the support of every Manitex customer.

What does UPTime mean to Manitex customers?

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UPTime means utilization.

UPTime means profitability.



Manitex
3000 South Austin Avenue
Georgetown, TX, USA 78626
Telephone 512-942-3000
Facsimile 512-863-3776
www.manitex.com

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