

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



product guide

Courtesy of Crane.Market

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 factorymounted 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 0-ring and face seal 0-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

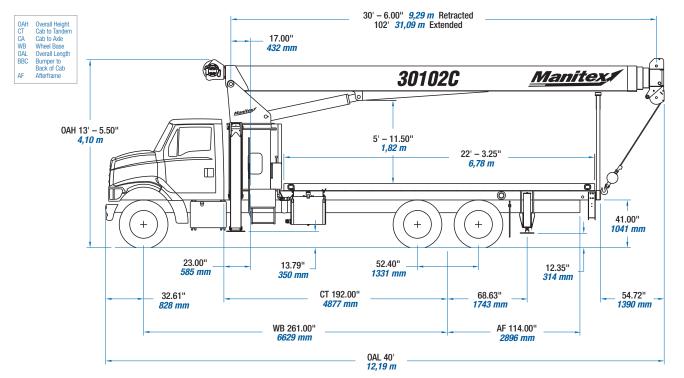
Electrical – State-of-the-art, weather-resistant components throughout. Hermetically sealed power in relays. Enclosure includes power in relays and circuit status LEDs. Designed to withstand high pressure washing and varying climates.

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.

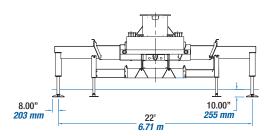


CHASSIS DATA	3071C	30102C			
Wheelbase (WB)	Consult Factory	253" <i>6 426 mm</i>			
Cab to Tandem (CT)	Consult Factory	184" <i>4 673 mm</i>			
After Frame (AF)	Consult Factory	114" <i>2 895 mm</i>			
Frame Section Modulus at 180° Area of Operation	30.0 in ³ 110,000 psi <i>758 422 kPa</i>	30.0 in³ 110,000 psi <i>758 422 kPa</i>			
Frame Section Modulus at 360° of Operation	30.0 in³ 110,000 psi <i>758 422 kPa</i>	30.0 in ³ 110,000 psi <i>758 422 kPa</i>			
Front Axle Gross Weight Rating	Consult Factory	18,000 lb <i>8 181 kg</i>			
Rear Axle Gross Weight Rating	Consult Factory	34,000 lb <i>15 422 kg</i>			
Minimum Truck Axle Weight - Front**	8,400 lb <i>3 818 kg</i>	8,400 lb <i>3 818 kg</i>			
Minimum Truck Axle Weight - Back**	8,400 lb <i>3 818 kg</i>	8,400 lb <i>3 818 kg</i>			
Nominal Frame Width	34" <i>864 mm</i>	34" <i>864 mm</i>			
*Frame section modulus at 360° area of stabilizer.	operation requires f	ront bumper			

Nominal Frame Width	34" <i>864 mm</i>	34" <i>864 mi</i>
*Frame section modulus at 360° area o stabilizer.	f operation requires f	ront bumper

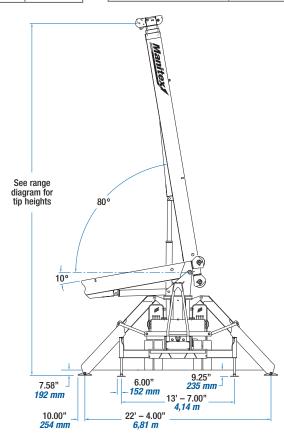
"Minimum chassis weight is required to meet 85% stability requirements. Chassis data is general – not for engineering. Some dimensions depend on

truck selection.



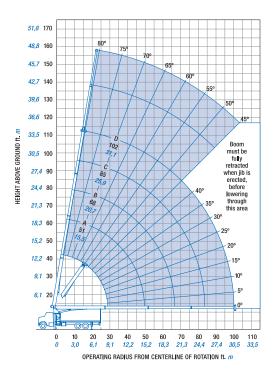
WEIGHTS	3071C	30102C
Total Crane - Standard	19,446 lb <i>8 821 kg</i>	21,738 lb <i>9 860 kg</i>
Total Crane - Out-and-Down Outriggers	20,445 lb <i>9 274 kg</i>	22,571 lb <i>10 238 kg</i>
22' <i>(6,71 m)</i> Flat Bed	2,000 lb <i>907 kg</i>	2,000 lb <i>907 kg</i>
26' (7,93 m) Fixed Length Jib	n/a	832 lb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

MAXIMUM TIP HEIGHT	30710	30102C		
Configuration	Boom 71' <i>21,6m</i>	Boom 102' 31 m		
Extended Boom	82' <i>24,9 m</i>	112' <i>33,9 m</i>		
Fixed or Retracted Jib	n/a	137' 42 m		
Extended Jib	n/a	157' 48 m		



OPTIONAL OUTRIGGER-STABILIZER COMBINATION

STANDARD OUTRIGGER-STABILIZER COMBINATION

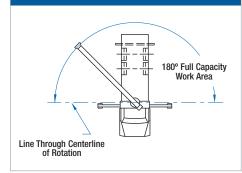


OUTRIGGERS AND STABILIZERS EXTENDED: MODEL 30102C

MAIN BOOM LOAD RATINGS									JIB LOAD RATINGS																
Boom Length A				B C D							Fixed Jib Telescopic Jib														
)perat	ing Radius		30.5 Fe <i>9,29 Me</i>		:	51 Fee 15,54 Me		2	68 Fee 20,72 Me			85 Fee 25,90 Me		:	102 Fe 31,08 Me		26 Feet26 Feet7,92 Meters7,92 Meters				46 Feet 14,02 Meters				
Feet	Meters		lb.	kg.		lb.	kg.		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	<i>9 8</i> 47	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	33º	15,480	7 022	61	13,850	<i>6 282</i>	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	<i>5 307</i>	65	10,770	4 885	72	10,140	4 599	76	8,670	<i>3 933</i>	79	5,300	2 404	79	5,100	2 313	81	3,050	13
35	10,66				47	9,770	4 432	60	9,240	4 191	68	8,640	<u>3 919</u>	73	7,670	3 479	77	4,990	<i>2 263</i>	77	4,730	2 145	79	3,050	13
40	12,19				38	7,510	3 406	55	7,720	<i>3 502</i>	64	7,490	<i>3 39</i> 7	70	6,490	2 944	75	4,580	2 077	75	4,310	1 955	77	3,050	13
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	13
50	15,24							43	4,920	2 232	56	5,030	2 282	63	4,860	<i>2 204</i>	70	3,830	1 737	70	3,550	1 610	74	2,910	13
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	12
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	11
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	10
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	9
75	22,86										29	1,820	826	45	1,890	857	57	2,010	912	57	1,670	757	63	1,880	8
80	24,38										19	1,450	659	40	1,530	<i>694</i>	54	1,640	744	54	1,340	608	61	1,610	7.
85	25,90													36	1,210	549	51	1,320	<i>599</i>	51	1,030	467	59	1,400	6
90	27,43													29	930	422	48	1,050	476	48	750	340	56	1,200	5
95	<i>28,96</i>													22	690	313	45	800	<i>363</i>	45	500	227	54	970	4
100	30,48																42	580	<i>263</i>				51	750	34
105	32,00																						48	550	2
			490	222		290	131		220	100		180	81		150	<u>68</u>	Deductions: Stowed Fixed Jib								
			490 730	222 331		290 440	131 200		220 330	100 150		180 260	81 118		150 220	68 100					ns: Stow Stowed			b	

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.

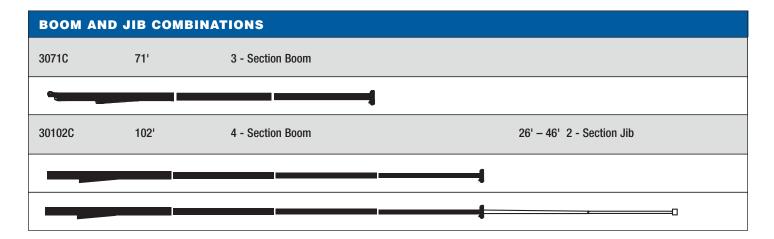
AREA OF OPERATION



DEDUCTIONSAuxiliary Block50 lb
22.72 kgAuxiliary Block50 lb
22.72 kgLoad BlockSee block
manufacturer nameplateOverhaul BallSee overhaul ball
manufacturer nameplateHose Reel140 lb
63.64 kgSwing 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
CONTRACT OVERHAUL BALL	SINGLE SHEAVE BLOCK	SINGLE SHEAVE BLOCK	Creation Control Contr	TRIPLE SHEAVE BLOCK BLOCK	TRIPLE SHEARE BLOCK BLOCK	AUXILIARY SHEAVE	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.
8,500 lb <i>3 856 kg</i>	17,000 lb 7 711 kg	25,500 lb <i>11 567 kg</i>	34,000 lb <i>15 422 kg</i>	42,500 lb <i>19 278 kg</i>	51,000 lb <i>23 133 kg</i>	60,000 lb <i>27 216 kg</i>	.5625" 6 x 25 IWRC (3.5:1 SF) - 29750 lb. min. breaking strength
7,400 lb <i>3 357 kg</i>	14,800 lb <i>6 713 kg</i>	22,200 lb 10 070 kg	29,600 lb <i>13 426 kg</i>	37,000 lb 16 783 kg	44,400 lb <i>20 140 kg</i>	51,800 lb <i>23 496 kg</i>	.5625" ROT RESISTANT (5.0:1 SF) - 37000 lb. min. breaking strength



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