

features

12

- 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

301020



series **3001 GENERAL SPECIFICATIONS**

BOOM

2

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 **Boom Rest** – Heavy-duty fabrication. Easily reducer. Wet multi-disc internal brake is springapplied, 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, pressurereleased 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 reauired.

Subframe – Torsionally resistant, rigid 4-plate design. systems. 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.

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 B30.5. Welding conforms to AWS D1.1. Tested to 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

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.

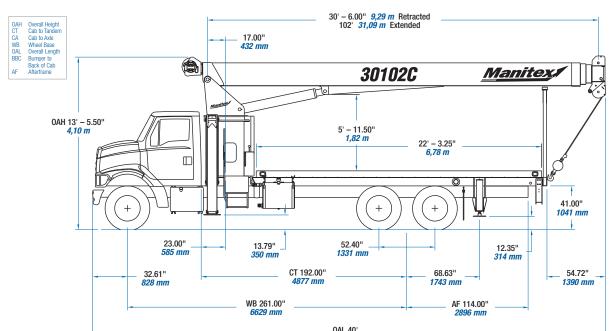
Design/Welding – Design conforms to ANSI SAE 1063 and SAE 765.

Manuals – Operator, service and parts manuals depict correct crane operation, maintenance procedures and parts listing.

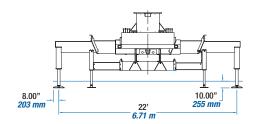
Warranty – 12-month warranty covers parts and labor resulting from defects in material and workmanship.

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

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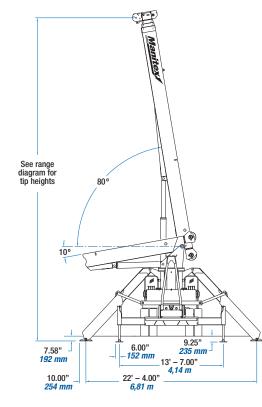
CHASSIS DATA	3071C	30102C
Wheelbase (WB)	Consult Factory	253" <i>6 426 mm</i>
Cab to Tandem (CT)	Consult Factory	184" <i>4 673 mm</i>
	100019	4 07 0 1111
After Frame (AF)	Consult Factory	114" <i>2 895 mm</i>
Frame Section Modulus at 180º Area of Operation	30.0 in ³ 110,000 psi <i>758 422 kPa</i>	30.0 in ³ 110,000 psi <i>758 422 kPa</i>
Frame Section Modulus at 360° of Operation	30.0 in ³ 110,000 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 o stabilizer. **Minimum chassis weight is required t Chassis data is general – not for engineet truck selection.	o meet 85% stability	requirements.



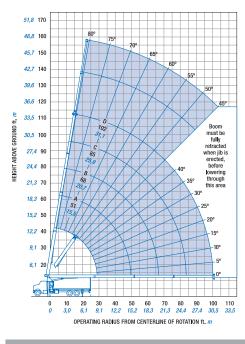
OPTIONAL OUTRIGGER-STABILIZER COMBINATION

0AL 40' *12,19 m*

	3071C	30102C	MAXIMUM TIP HEIGHT	3071C	30102C		
rd	19,446 lb <i>8 821 kg</i>	21,738 lb <i>9 860 kg</i>			Boom 102'		
d-Down	20,445 lb <i>9 274 kg</i>	22,571 lb <i>10 238 kg</i>		21,6m	31 m		
1	2,000 lb 907 kg	2,000 lb 907 kg	2,000 lb Extended Boom		112' <i>33,9 m</i>		
ength Jib	n/a	832 lb 377 kg	Fixed or Retracted Jib	n/a	137' <i>42 m</i>		
14,02 m)	n/a	1,226 lb 556 kg	Extended Jib	n/a	157' <i>48 m</i>		



STANDARD OUTRIGGER-STABILIZER COMBINATION



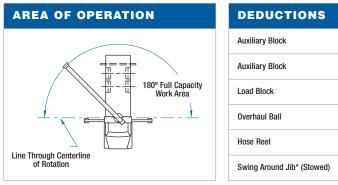
OUTRIGGERS AND STABILIZERS EXTENDED: MODEL 30102C

						BU		.07	AD R	AIIN	G								JID	LU	ADI	RATI	NG	3	
		Bo	om Leng	yth		Α			В			C			D			Fixed J	lib			Telesco	opic J	lib	
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 <i>31,08 Meters</i>		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.		lb.	kg.		lb.	kg.
5	1,52	80°	60,000	27 216																					
8	2,43	75°	39,690	18 003																					
10	3,05	71º	33,510	15 200	79	22,500	10 206																		
12	3,65	67º	29,120	13 209	77	22,500	10 206																		
15	4,57	60°	24,440	11 086	73	21,710	<u>9 847</u>	79	20,590	9 339															
20	<i>6,09</i>	48º	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	1 3
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	13
40	12,19				38	7,510	3 406	55	7,720	3 502	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	1 3
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	2 204	70	3,830	1 737	70	3,550	1 610	74	2,910	1 3
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	1 0
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	96
75	22,86										29	1,820	826	45	1,890	857	57	2,010	912	57	1,670	757	63	1,880	85
80	24,38										19	1,450	659	40	1,530	694	54	1,640	744	54	1,340	608	61	1,610	73
85	<i>25,90</i>													36	1,210	549	51	1,320	<i>599</i>	51	1,030	467	59	1,400	63
90	27,43													29	930	422	48	1,050	476	48	750	340	56	1,200	54
95	<i>28,96</i>													22	690	313	45	800	363	45	500	227	54	970	44
100	30,48																42	580	263				51	750	34
105	32,00																						48	550	24
			490	222		290	131		220	100		180	81		150	68			Ded	uctio	ns: Stow	ed Fixed	d Jib		
			730	331		440	200		330	150		260	118		220	100			Deduc	tions	Stowed	Telesco	pic J	ib	

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.

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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 <i>63.64 kg</i>
Swing Around Jib* (Stowed)	See load rating chart

WEIGH	TS						
1 Part Line	2 Part Line	3 Part Line	4 Part Line	5 Part Line	6 Part Line	7 Part Line	WARNING
		Co De Contra de	The sheare elock	THPLE SHEWE BLOCK	THIPLE SHEAVE 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 13 426 kg	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

BOOM A	BOOM AND JIB COMBINATIONS									
3071C	71'	3 - Section Boom								
¢			-							
30102C	102'	4 - Section Boom	26' - 46' 2 - Section Jib							

12



- order system.

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(909) 222-0202

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