

BOOM TRUCK CRANE BT 7077 BT 70100

DATASHEET - IMPERIAL



Features: BT 70100

- ▶ 35 t @ 5 ft capacity at rated distance from center of rotation
- 100 ft maximum boom length
- ▶ 110 ft maximum sheave height
- ▶ 30.5/55 ft optional jib
- ▶ 163 ft maximum tip height with 55 ft jib
- Behind cab mounting with dual operator console
- ▶ Electronic load moment indicator
- Quick reeving boom head

WORKS FOR YOU.

BT 7077 / BT 70100

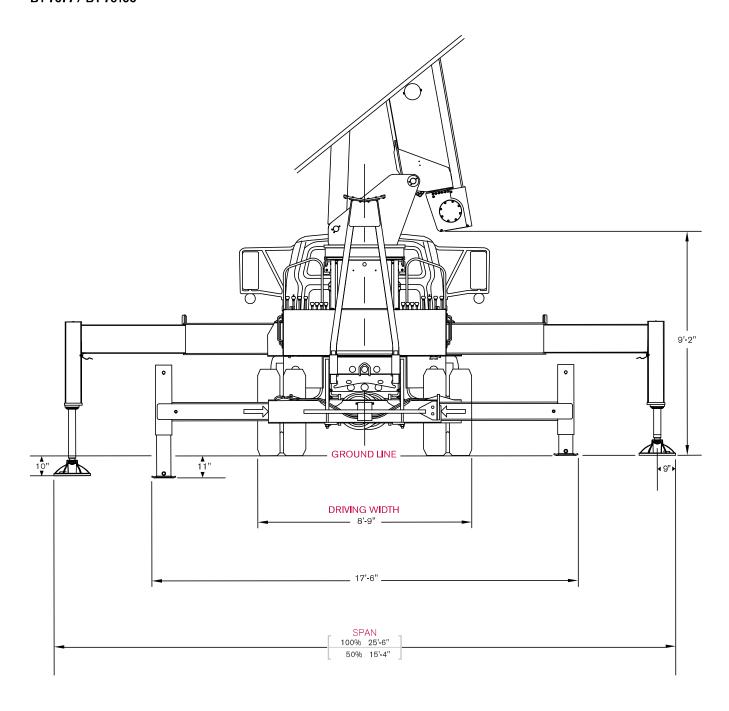
KEY



DIMENSIONS

Crane Dimensions

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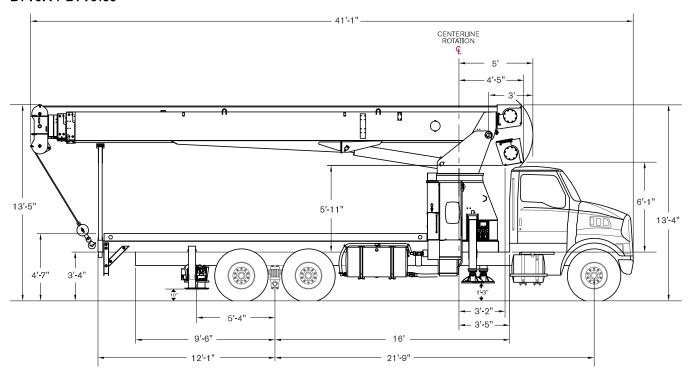


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DIMENSIONS

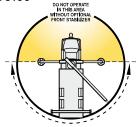
Crane Dimensions

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Area of Operation





Mounting Specifications

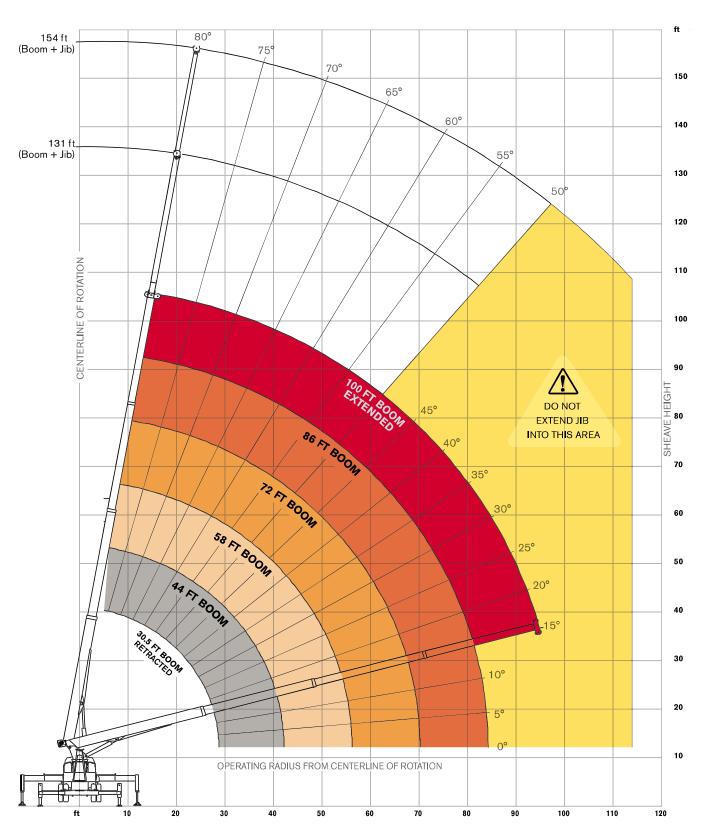
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Chassis	Recommendation	
Gross V	nicle Weight Rating54	4,000 I
Front Ax	Weight Rating),000 I
Rear Axl	Weight Rating	4,000 ll
Wheelba	e	+/- 4 i
Cab to A	le	+/- 4 ir
Afterfran		+/- 4 iı
RBM pe	Frame Rail	00 lb/ii
Frame H	ght (Unloaded)	. 40 i
Exhaust	Vertical Rig	ght Sid

BT 70100

Outriggers Fully Extended (100%)

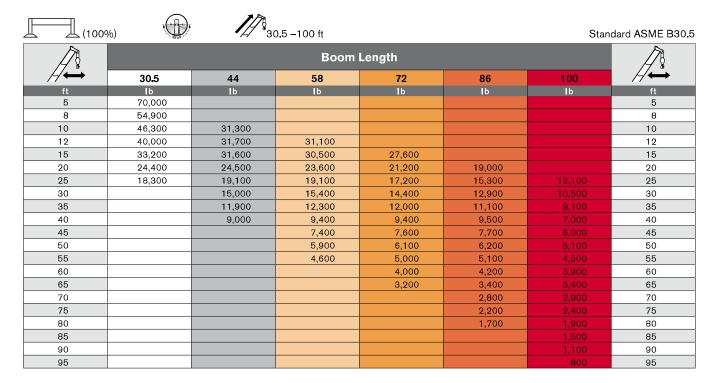




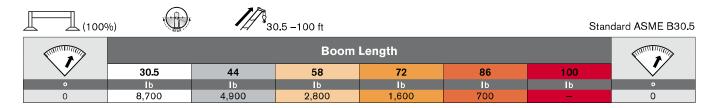


BOOM LOAD CHARTS

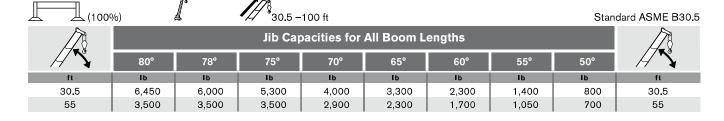
Outriggers Fully Extended (100%)



Boom at 0°



With Jib, Retracted and Extended



Notes to lifting capacity

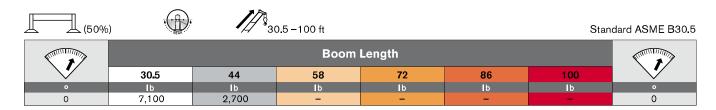
Lifting capacities do not exceed 85% of tipping load. Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings. Consult operation manual for further details.

Note: Data published herein is intended as a guide only and shall not be construed to warrant applicability for lifting purposes. Crane operation is subject to the computer charts and operation manual both supplied with the crane.

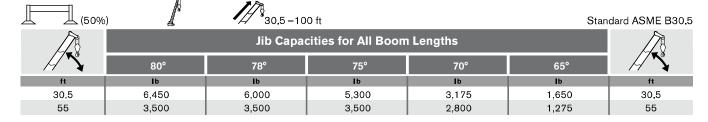
Outriggers Extended Mid-Position (50%)

(50%)	No.		0.5 –100 ft			Stan	dard ASME B30.5	
	Boom Length							
<i>/</i> -/←→	30.5	44	58	72	86	100	<i>/</i> -/←→	
ft	lb	Ib	Ib	Ib	lb	Ib	ft	
5	70,000						5	
8	47,000						8	
10	42,100	31,300					10	
12	37,300	31,700	31,100				12	
15	31,600	31,600	30,500	27,600			15	
20	16,900	11,100	18,000	18,600	18,300		20	
25	10,100	7,400	11,400	11,600	11,700	11,800	25	
30		5,000	7,700	7,900	8,000	8,100	30	
35		3,300	5,400	5,600	5,700	5,800	35	
40			3,800	4,000	4,200	4,200	40	
45			2,600	2,900	3,000	3,100	45	
50			1,700	2,000	2,100	2,200	50	
55			900	1,200	1,400	1,500	55	
60						900	60	

Boom at 0°



With Jib, Retracted and Extended



Notes to lifting capacity

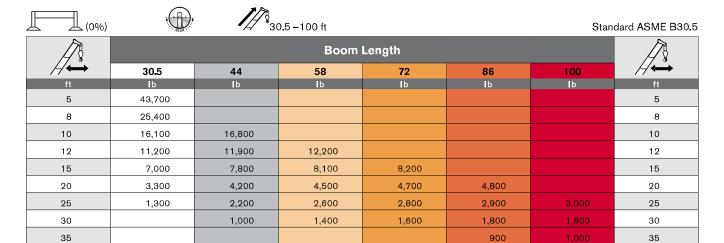
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BOOM LOAD CHARTS

Outriggers Fully Retracted (0%)



Notes to lifting capacity

Lifting capacities do not exceed 75% of tipping load. Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings. Consult operation manual for further details.

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Boom, Jib and Rotation

	Full power fully synchronized telelscopic keel boom	BT 7077 BT 70100	3 sections 4 sections
	Boom length	BT 7077 BT 70100	30.5–77 ft 30.5–100 ft
	Boom maximum sheave height	BT 7077 BT 70100	87 ft 110 ft
	Boom elevation angle range (min/max) Boom up/down time Boom extension/retraction time		-8° / 82° 41 seconds / 50 seconds
	Boom head	O	uick reeving
	Maximum tip height: With optional jib 30.5–55 ft	BT 7077 BT 70100	140 ft 163 ft
(+)	370° non-continuous rotation		

Operator Controls and Operator Aid				
1	Hoist line pull	12,900 lb		
	Hoist line speed (3rd layer)	196 ft/min		
	Rope diameter	5/8 in		
←∭	Breaking strength Permissible line pull	45,400 lb 12,900 lb		
	Overhaul ball 1 Sheave block 2 Sheave block 3 Sheave block	7 t 20 t 30 t 40 t		



TECHNICAL DESCRIPTION

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1 part line 2 part line

3 part line 4 part line

5 part line

6 part line

12,971 lb / 75.6 ft/min 25,942 lb / 37.8 ft/min 38,913 lb / 25.2 ft/min 51,884 lb / 18.9 ft/min 64,855 lb / 15.1 ft/min 70,000 lb / 15.1 ft/min



Fully proportional Independent outrigger controls



Load moment / Rated capacity indicator

Understructure



Front: Out and down, To outer edge of pad

Rear: Out and down, To outer edge of pad

25 ft 6 in

17 ft 6 in

Optional Features

Two-stage jib

Rotation resistant rope

Multi-part load blocks

Main hoist with 2 speed motor

Heavy duty wood flatbeds

Extra heavy duty wood flatbeds

Extra heavy duty steel flatbeds

Radio remote controls

One-man or two-man baskets

Hoist drum tensioner

Continuous rotation

Oil cooler

Single front bumper outrigger

Hydraulic hose reel

Tool box