



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.



CONTENTS

Page:
Key 3
DimensionsCrane Dimensions4, 5Area of Operation5Mounting Specifications5Range Diagram, BT 701006Range Diagram, BT 707710
Load charts, BT 70100 Boom Load Chart. 7, 8, 9 Jib, Retracted 7, 8 Jib, Extended 7, 8
Load charts, BT 7077 Boom Load Chart. 11, 12, 13 Jib, Retracted 11, 12 Jib, Extended 11, 12
Technical description Boom, Jib and Rotation





KEY

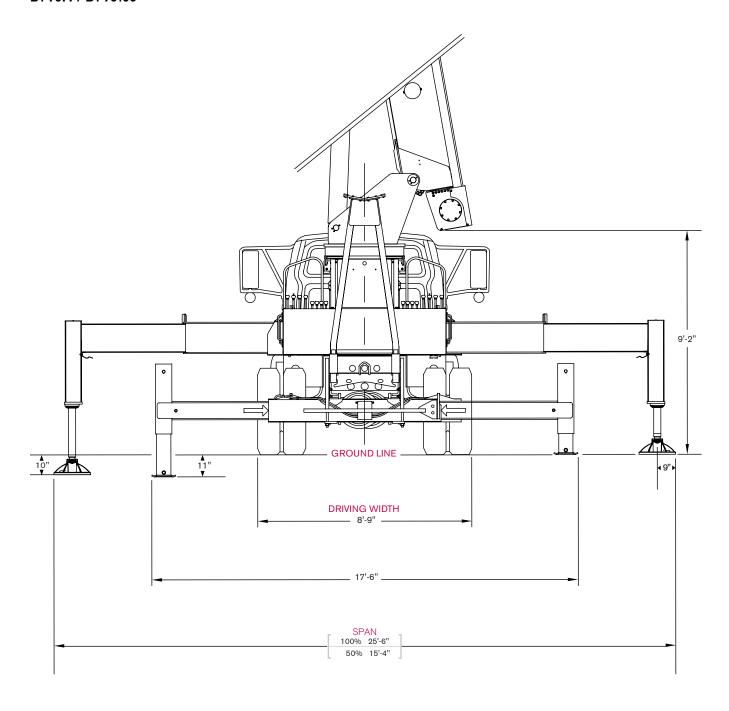
	Main boom	1	Main Hoist
	Boom length		Hoist line speed
†	Tip height		Part line
MILITA .	Telescoping mode		Operator aid
	Boom angle		Controls
	Working radius	HYDR	Hydraulics
	Boom with jib		Working temperature
	Boom head		Outriggers
	Hook block		Working speeds
	Hook to head sheave pin		Rope - Standard / Optional
(+)	Rotation / Allowable rotation range		Rope diameter
	Boom angle		Rope length
REAR	Boom over the rear	←∭	Line pull



DIMENSIONS

BT 7077 / BT 70100

Crane Dimensions





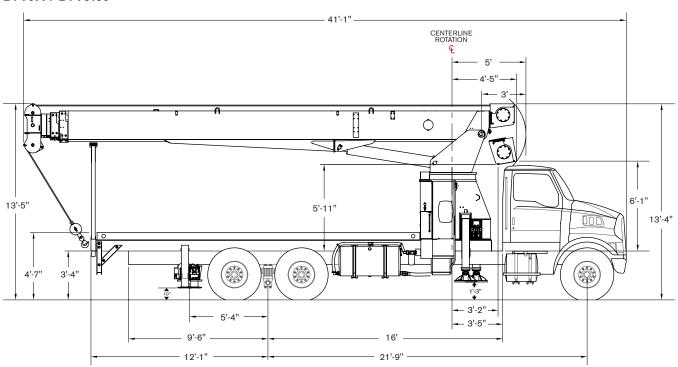


DIMENSIONS

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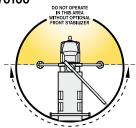
Crane Dimensions

BT 7077 / BT 70100



Area of Operation

BT 7077 / BT 70100



Mounting Specifications

Chassis Recommendat	tion
Gross Vehicle Weight Ra	ıting
Front Axle Weight Rating	2
Rear Axle Weight Rating	3
Wheelbase	
Cab to Axle	
Afterframe	
RBM per Frame Rail	
Frame Height (Unloaded)	
Exhaust	

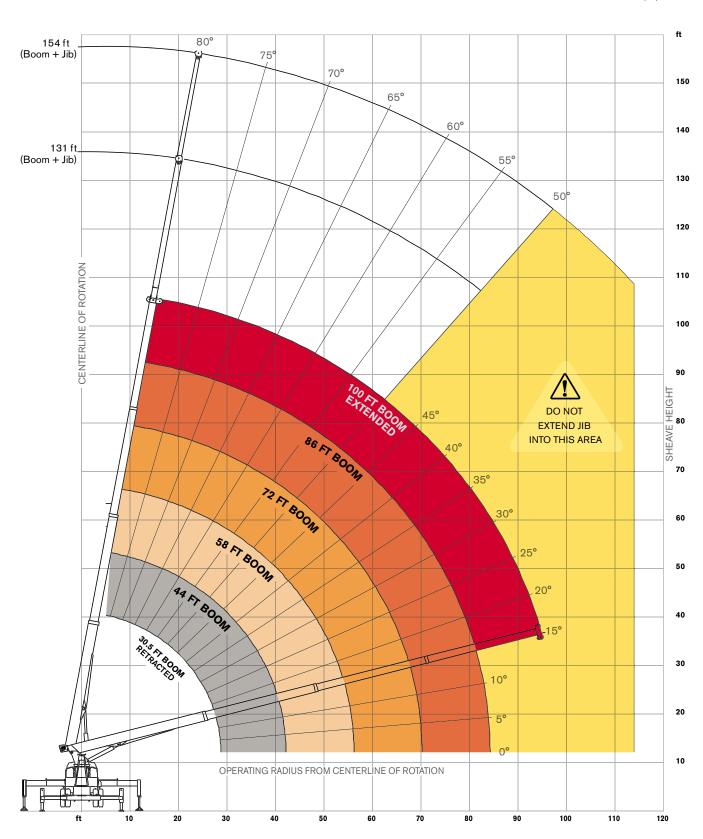


RANGE DIAGRAM

BT 70100

Outriggers Fully Extended (100%)



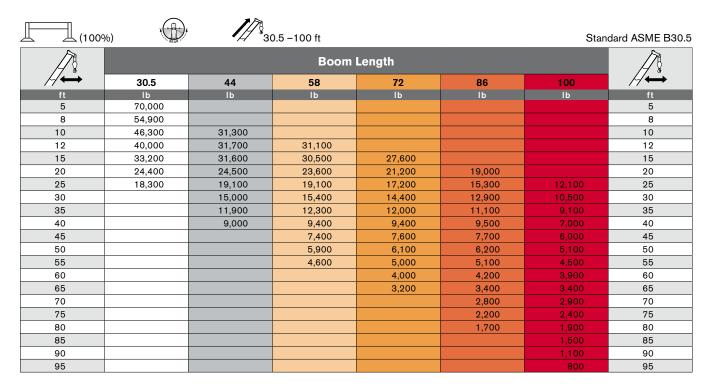




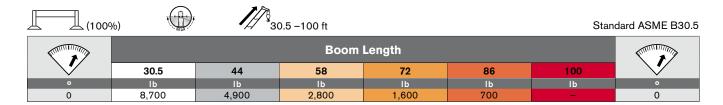


BT 70100

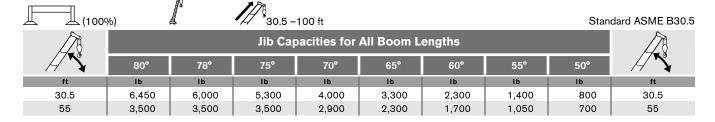
Outriggers Fully Extended (100%)



Boom at 0°



With Jib, Retracted and Extended



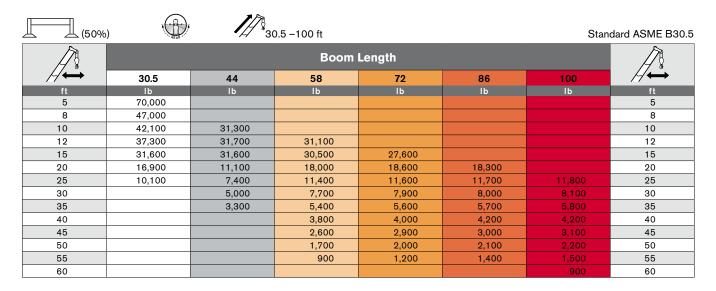
Notes to lifting capacity

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.

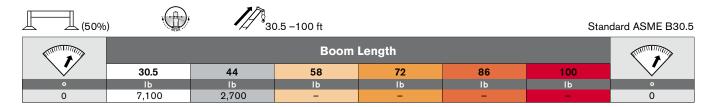


BT 70100

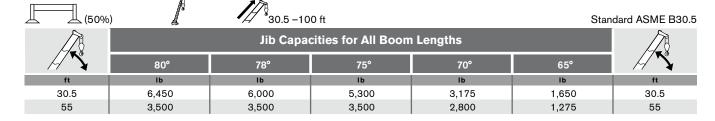
Outriggers Extended Mid-Position (50%)



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.





BT 70100

Outriggers Fully Retracted (0%)

(0%)	No. of the last of		0.5 –100 ft			Stan	dard ASME B30.5
		Boom Length					
/ //	30.5	44	58	72	86	100	/ //
ft	lb	lb	lb	lb	lb	lb	ft
5	43,700						5
8	25,400						8
10	16,100	16,800					10
12	11,200	11,900	12,200				12
15	7,000	7,800	8,100	8,200			15
20	3,300	4,200	4,500	4,700	4,800		20
25	1,300	2,200	2,600	2,800	2,900	3,000	25
30		1,000	1,400	1,600	1,800	1,800	30
35					900	1,000	35

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.

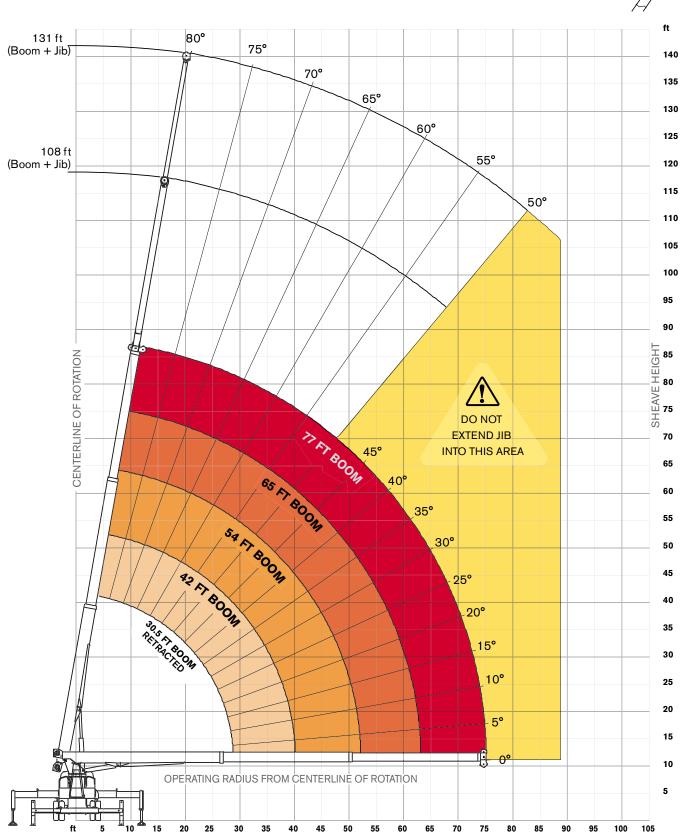


RANGE DIAGRAM

BT 7077

Outriggers Fully Extended (100%)







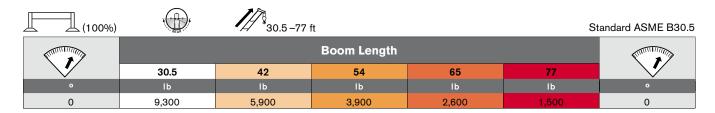


BT 7077

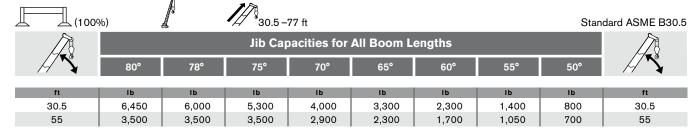
Outriggers Fully Extended (100%)

(100%)	REAR	30.5 -77	ft		Si	tandard ASME B30.5
		Boom Length				
/-/ 	30.5	42	54	65	77	/:/←→
ft	Ib	lb	lb	lb	lb	ft
5	70,000					5
8	55,500	53,500				8
10	46,900	45,000	43,800			10
12	40,600	38,900	37,700	37,000		12
15	33,800	32,300	31,200	30,500	25,000	15
20	25,000	25,200	24,300	23,600	20,200	20
25	18,900	19,500	19,800	19,200	16,700	25
30		15,500	15,800	16,000	14,200	30
35		12,500	12,900	13,100	12,000	35
40			10,100	10,300	10,400	40
45			8,100	8,200	8,300	45
50			6,500	6,700	6,800	50
55				5,500	5,600	55
60				4,600	4,700	60
65					3,900	65
70					3,300	70

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.

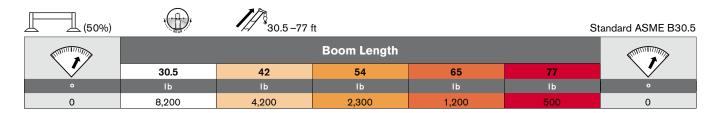


BT 7077

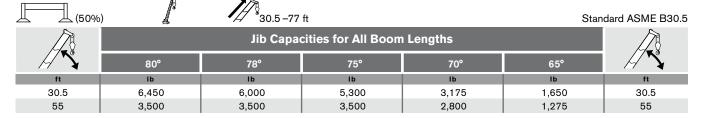
Outriggers Extended Mid-Position (50%)

(50%)	A CONTRACTOR OF THE PARTY OF TH	30.5 -77	ft		Si	tandard ASME B30.5
		Boom Length				
<i>/</i> -/ - →	30.5	42	54	65	77	/-/←→
ft	lb	lb	lb	lb	lb	ft
5	61,900					5
8	49,600	49,900				8
10	43,600	43,900	43,800			10
12	38,800	38,900	37,700	37,000		12
15	33,200	32,300	31,200	30,500	25,000	15
20	17,700	18,200	18,400	18,600	18,700	20
25	11,100	11,800	12,000	12,200	12,300	25
30		8,200	8,500	8,700	8,800	30
35		5,900	6,300	6,400	6,500	35
40			4,700	4,900	5,000	40
45			3,600	3,800	3,800	45
50			2,600	2,900	3,000	50
55				2,100	2,300	55
60				1,600	1,800	60
65					1,300	65
70					800	70
75					500	75

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.





BT 7077

Outriggers Fully Retracted (0%)

(0%)		30.5 -77	ft		St	tandard ASME B30.5
	Boom Length					
/-/ ←	30.5	42	54	65	77	/-/ ←
ft	lb	lb	lb	lb	lb	ft
5	43,800					5
8	23,400	23,800				8
10	14,900	15,200	15,400			10
12	10,300	10,700	11,000	11,100		12
15	6,300	7,000	7,200	7,300	7,400	15
20	3,000	3,600	3,900	4,000	4,100	20
25	1,100	1,800	2,000	2,200	2,300	25
30			900	1,100	1,300	30

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.



TECHNICAL DESCRIPTION

BT 7077 / BT 70100

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	C	luick 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

BT 7077 / BT 70100



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



BT 7077 / BT 70100

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Effective Date: November 2010. Product specifications and prices are subject to change without notice or obligation. The photographs and/or drawings in this document are for illustrative purposes only. Refer to the appropriate Operator's Manual for instructions on the proper use of this equipment. Failure to follow the appropriate Operator's Manual when using our equipment or to otherwise act irresponsibly may result in serious injury or death. The only warranty applicable to our equipment is the standard written warranty applicable to the particular product and sale and Terex makes no other warranty, express or implied. Products and services listed may be trademarks, service marks or trade-names of Terex Corporation and/or its subsidiaries in the USA and other countries. All rights are reserved. Terex® is a registered trademark of Terex Corporation in the USA and many other countries. Copyright 2010 Terex Corporation...

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