

#### **BT 28106**

28 USt Lifting Capacity
Boom Truck Cranes
Datasheet
Imperial

# BT 28106



- 106 ft maximum boom length
- 115 ft maximum tip height
- > 30/47 ft optional jib, offsettable 0°, 15°, 30°
- ▶ 162 ft maximum sheave height with 47 ft jib
- ▶ Behind cab mounting with dual operator console
- Electronic rated capacity indicator with work area definition
- Quick reeving boom head
- K-pattern outriggers

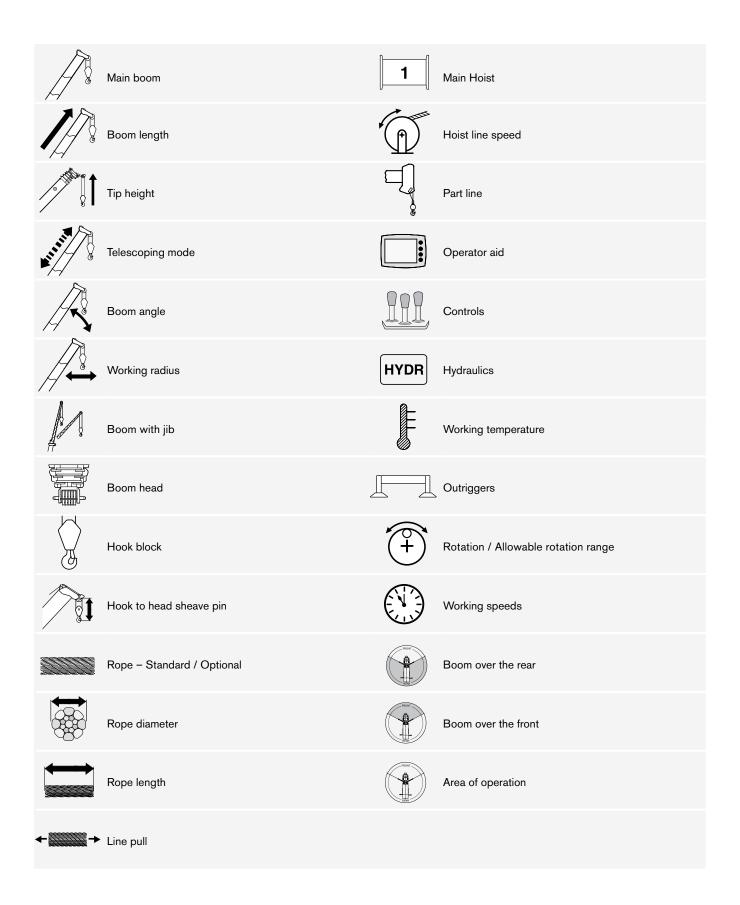
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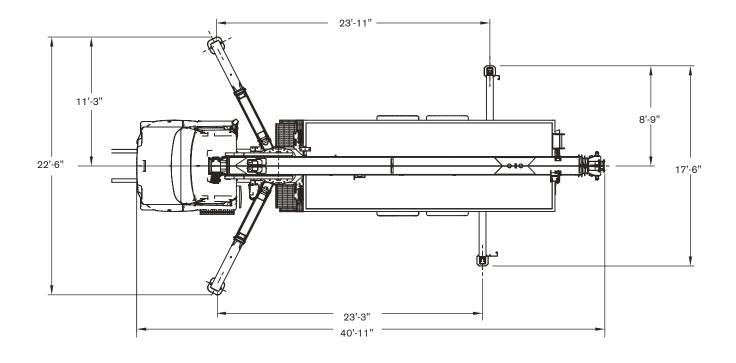
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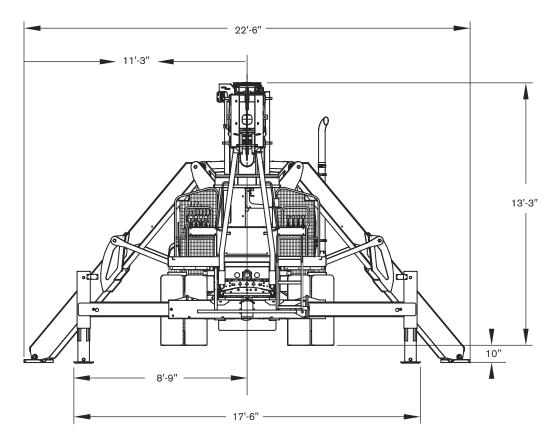




# **DIMENSIONS**

## **Crane Dimensions**

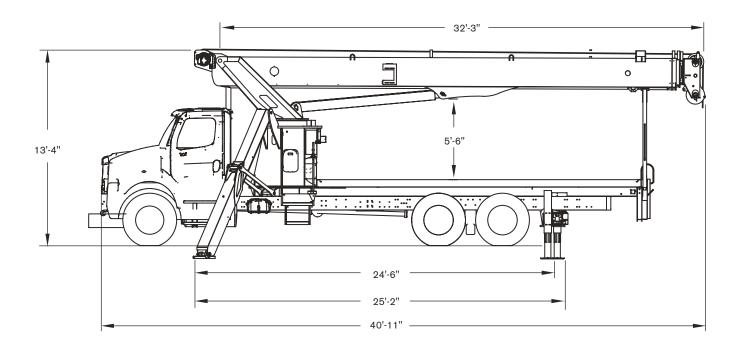




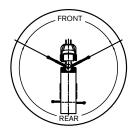


# **DIMENSIONS**

#### **Crane Dimensions**



## **Area of Operation**



# **Mounting Specifications**

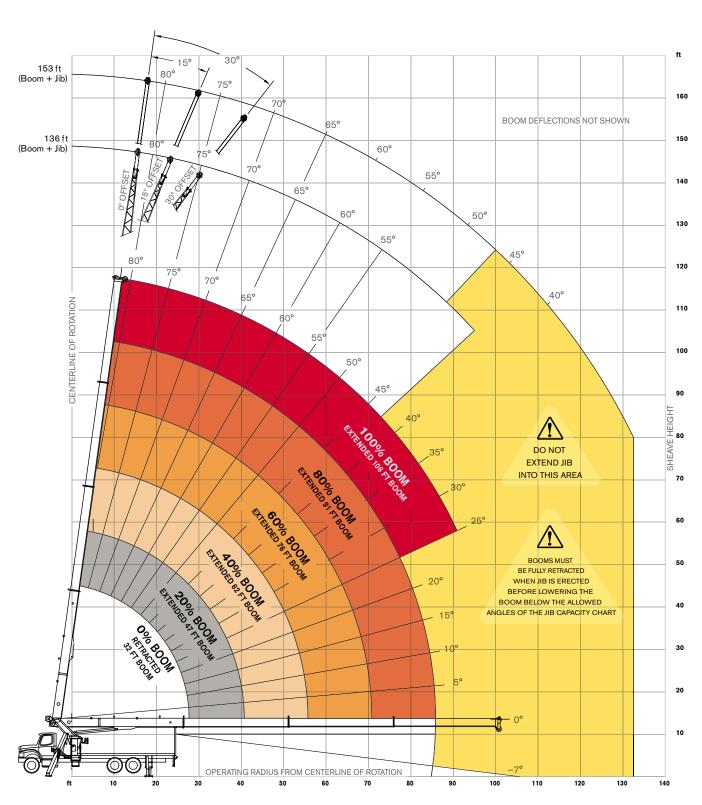
Gross Vehicle Weight Rating 52,000 lb
Front Axle Weight Rating
Rear Axle Weight Rating34,000 lb
Wheelbase
Cab to Axle
Afterframe
RBM per Frame Rail (min) 3,300,000 lb/in
Frame Height (Unloaded) 40 in
Vertical Exhaust Height

<b>Estimated installed crane weight</b>					
Approximate weight distribution:					
Front axle					
Tandem axles					
Total weight46,400 lbs					
Estimated freightliner bare chassis weight:					
Front axle					
Tandem axles					
Total weight17,410 lbs					
* Minimum bare chassis weight requirements. Must ballast to minimum if required.					

#### BT 28106

## **Outriggers Fully Extended (100%)**







# **BOOM LOAD CHART**

## **Outriggers Fully Extended (100%)**



Standard ASME B30.5

	Boom Length												
	32		47		62		76		91		106		
A													
ft	Ib FC 000	Ib FC 000	lb	ft									
6	56,000	56,000	00.000	00.000									6
8	40,000	40,000	29,000	29,000	05.400	05.400							8
10	34,000	34,000	27,000	27,000	25,400	25,400							10
12	30,000	30,000	24,950	24,950	24,000	24,000							12
14	24,700	24,700	22,850	22,850	22,000	22,000	19,000	19,000	16,000	16,000			14
17	22,000	21,700	20,450	20,450	20,000	20,000	17,000	17,000	14,600	14,600			17
20	18,000	17,500	16,950	16,250	16,000	15,300	14,500	14,500	13,000	13,000	10,000	10,000	20
25	14,000	10,850	12,900	11,600	13,000	11,500	12,000	12,000	11,000	11,000	9,500	9,500	25
30			10,000	8,300	10,000	8,650	9,500	9,500	8,750	8,750	9,000	8,500	30
35			7,750	5,900	8,000	6,300	8,000	6,700	7,500	6,700	8,500	6,700	35
40			6,300	4,200	6,650	4,650	6,750	4,900	6,500	5,000	7,100	5,100	40
45					5,300	3,650	5,500	3,850	5,500	4,050	5,800	4,050	45
50					4,250	2,700	4,500	2,950	4,400	3,100	4,850	2,950	50
55					3,450	1,900	3,650	2,200	3,800	2,250	3,950	2,300	55
60							3,000	1,600	3,150	1,650	3,300	1,700	60
65							2,400	1,050	2,600	1,150	2,700	1,200	65
70							1,900	500	2,050	700	2,200	800	70
75									1,650	400	1,800	500	75
80									1,250		1,350		80
85									800		1,000		85
90											650		90
95											350		95

## **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.

## **LOAD CHART**

#### BT 28106

#### With Jib, Retracted





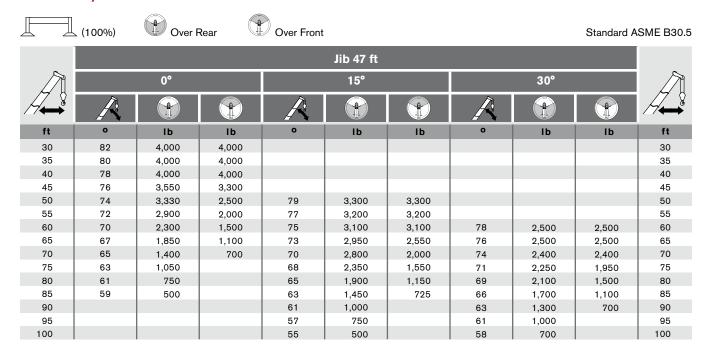




Standard ASME B30.5

	Jib 30 ft									
	0°			15°						
	R			R			R			
ft	0	lb	lb	0	lb	lb	0	lb	lb	ft
30	80	5,000	5,000							30
35	78	5,000	5,000							35
40	75	5,000	5,000	81	4,800	4,000	82	4,000	4,000	40
45	72	4,800	4,250	79	4,800	4,000	79	4,000	4,000	45
50	70	4,500	3,250	74	4,200	3,850	77	4,000	4,000	50
55	68	3,800	2,550	72	3,700	3,050	75	3,600	3,350	55
60	65	3,100	1,900	70	3,300	2,300	72	3,200	2,700	60
65	63	2,450	1,300	67	2,650	1,700	70	2,800	2,100	65
70	60	1,800	800	65	2,000	1,100	67	2,350	1,500	70
75	58	1,350	450	62	1,600	750	64	1,900	1,100	75
80	55	900		59	1,200	400	60	1,500	700	80
85	51	575		56	800		57	1,150	425	85
90				52	400		54	800		90
95							51	550		95
100										100

#### With Jib, 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.

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# **TECHNICAL DESCRIPTION**

## **Boom, Jib and Rotation**

	Four-section full power fully synchronized telelscopic keel boom	
	Boom length	32–106 ft
	Boom maximum tip height	115 ft
	Boom elevation angle range (min/max)	-7° / 82°
	Boom up/down time Boom extension/retraction time	50/120 seconds 110/140 seconds
	Boom head Top shaft: 1 sheave / lower shaft: 3 sheave	3 Sheave quick reeving
	Tip height: Optional lattice jib 30/47 ft Angular offsets	162 ft 0°, 15°, 30°
( <del>+</del> )	320° total swing- noncontinuous	

# **Operator Controls, Operator Aids**

1	Hydraulic 2-speed hoist	
<b>←‱</b>	Hoist maximum line pulls Low High	11,854 lb 5,532 lb
	Hoist 3rd layer line speeds Low High	137 ft/min 209 ft/min
	Rope diameter	9/16"
<b>←‱</b>	Breaking strength Permissible line pull (standard rope)	37,000 lb 10,500 lb
<b></b>	Rope length	350 ft
	Overhaul ball 1 Sheave block 2 Sheave block 3 Sheave block	7 USt 15 USt 25 USt 30 USt



1 part line

2 part line

3 part line 4 part line

5 part line

6 part line 7 part line, optional rotational resistant rope only 9,600 lb / 172 ft/min 19,200 lb / 86 ft/min 28,800 lb / 57 ft/min 38,400 lb / 43 ft/min 48,000 lb / 34 ft/min 51,800 lb / 29 ft/min 57,000 lb / 24 ft/min



Proportional hydraulics Independent outrigger controls

Bump throttle



Rated capacity indicator with work area definition

ATB system - internal wire

#### **Outriggers**



K-pattern

Front: Splayed A-link, To outer edge of pad

Rear, "H" pattern (out and down),

To outer edge of pad

22 ft 6 in

17 ft 6 in

#### **Optional Features**

360° swing continuous rotation

Two-stage jibs with offset capability 0°, 15°, 30°

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

Oil cooler

Single front bumper outrigger

Hydraulic hose reel

Tool box

Foot throttle

Inching control for hoist operation at rear of subframe, for one man hook ball stowage and deploy



**NOTES BT 28106** 

Effective Date: July 2012. 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.

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