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TEREX®

TM 3851

**19 USt Lifting Capacity
Boom Truck Crane
Datasheet
Imperial**

TM 3851



Features

- ▶ 19 USt @ 5 ft capacity at rated distance from center of rotation
- ▶ 51 ft maximum boom length
- ▶ 61 ft maximum tip height
- ▶ 18/29 ft optional jib
- ▶ 90 ft maximum tip height with 29 ft jib
- ▶ Quick reeving dual sheave boom head

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Technical description

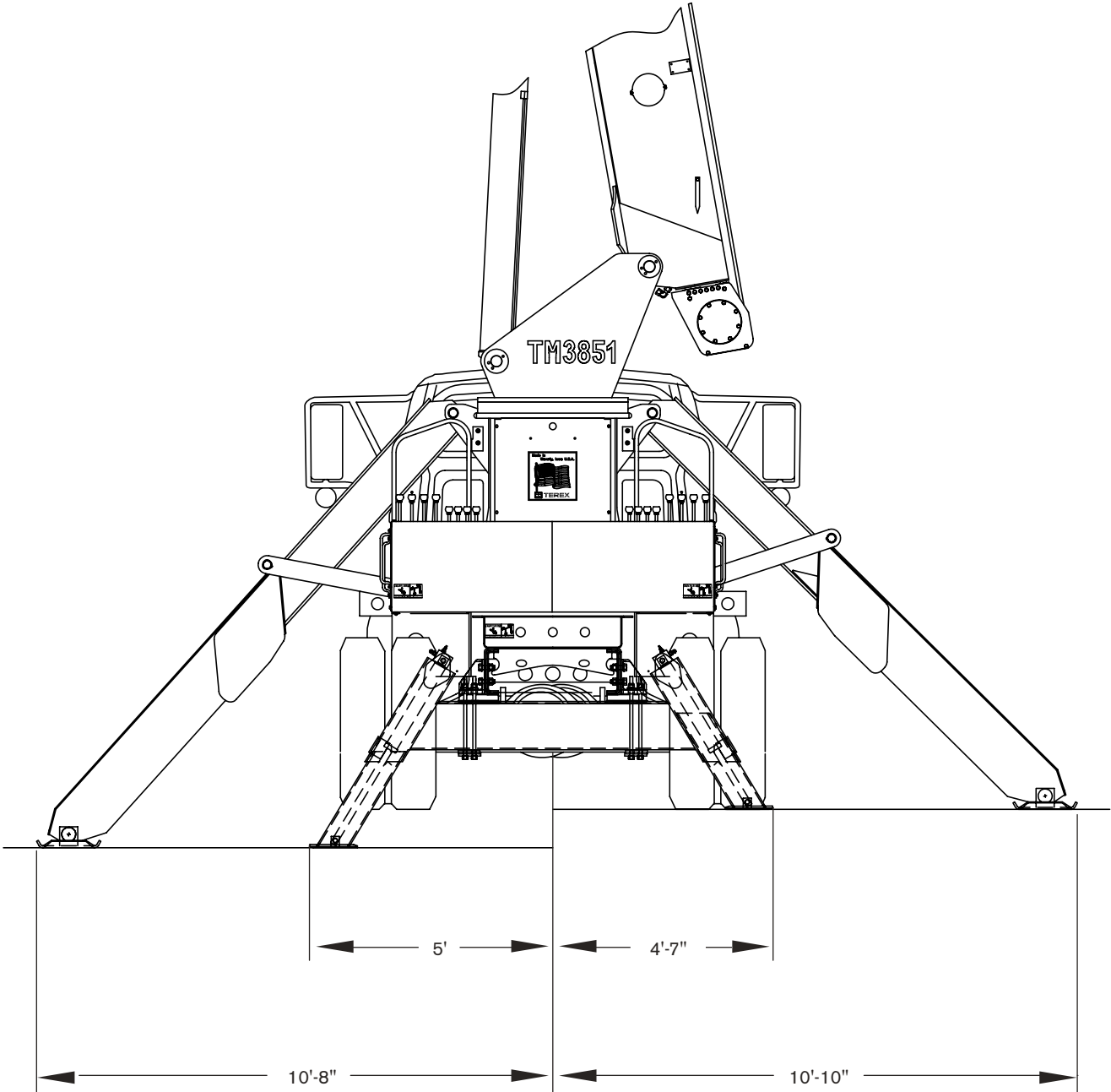
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	Main boom		Main Hoist
	Boom length		Hoist line speed
	Tip height		Part line
	Telescoping mode		Operator aid
	Boom angle		Controls
	Working radius		Hydraulics
	Boom with jib		Working temperature
	Boom head		Outriggers
	Hook block		Rotation / Allowable rotation range
	Hook to head sheave pin		Boom angle
	Rope – Standard / Optional		Boom over the rear
	Rope diameter		Boom over the front
	Rope length		Working speeds
	Line pull		

DIMENSIONS

Crane Dimensions

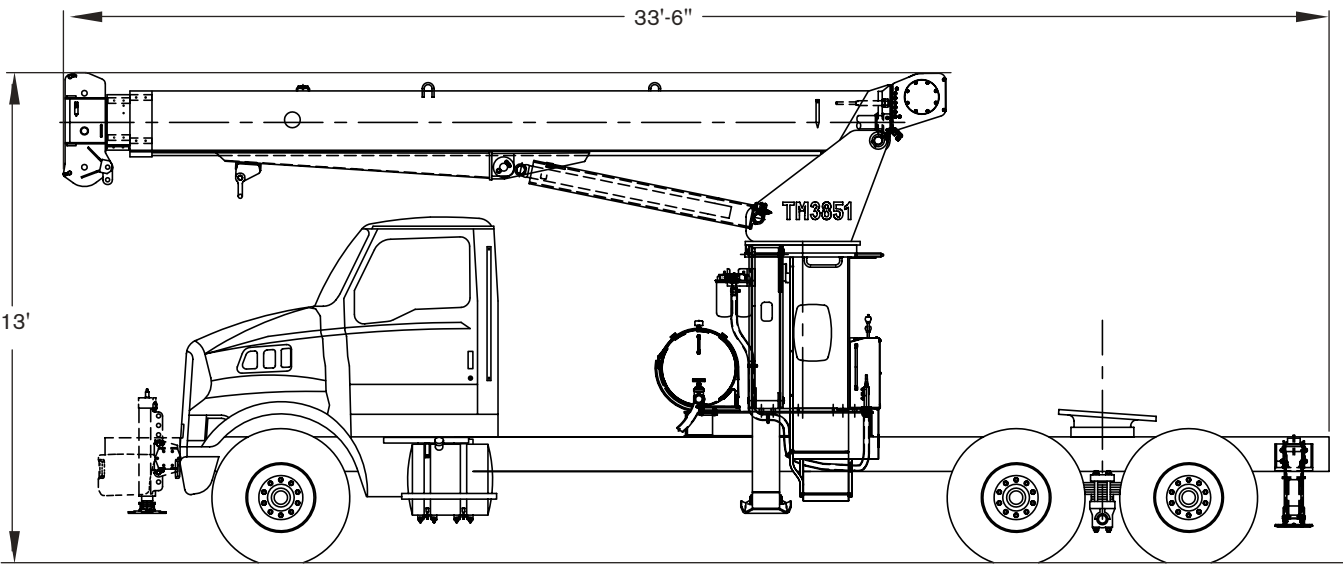
TM 3851



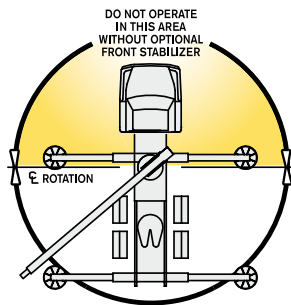
DIMENSIONS

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Crane Dimensions



Area of Operation



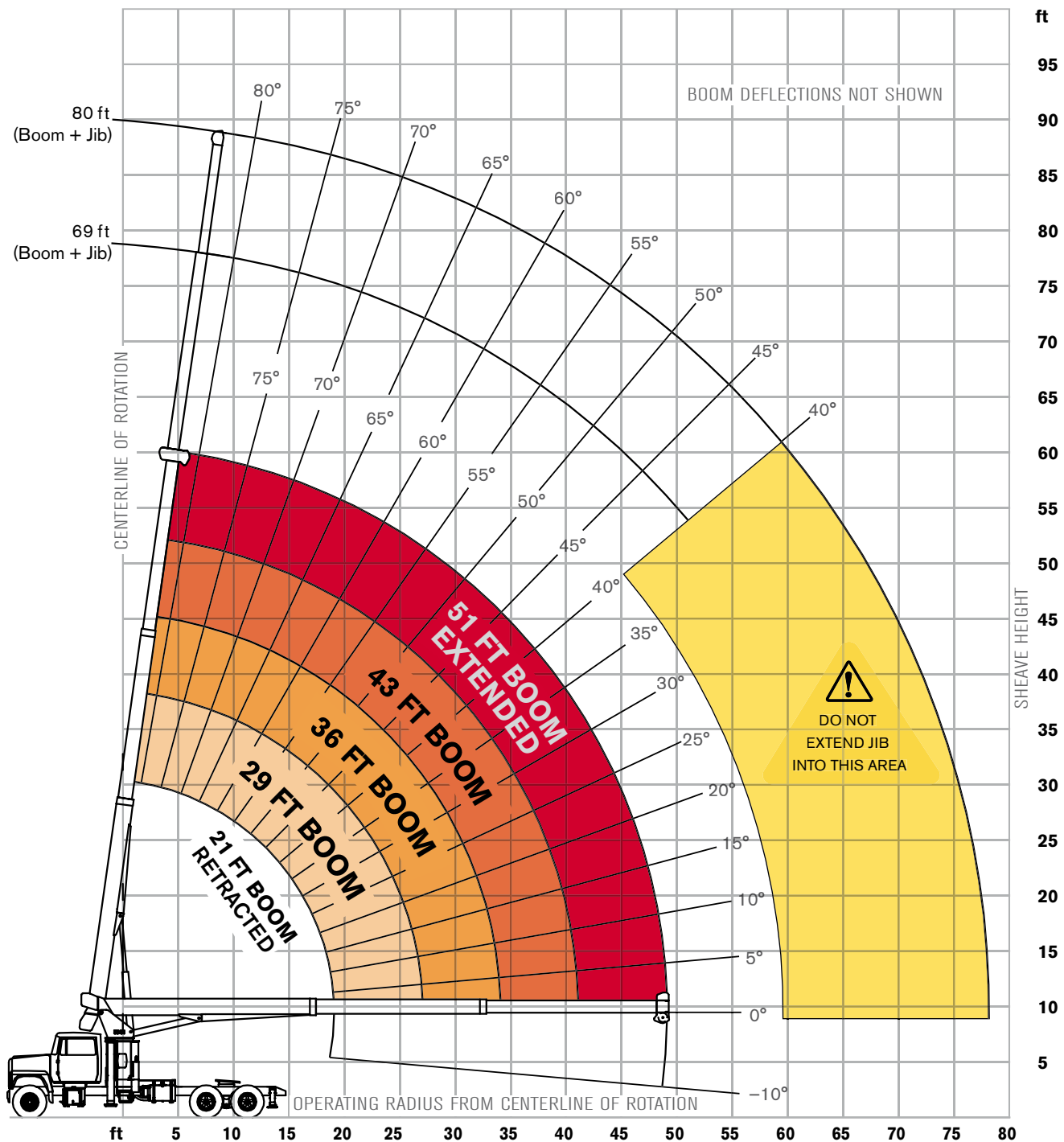
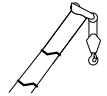
Mounting Specifications

Gross Vehicle Weight Rating	52,000 lb
Front Axle Weight Rating.....	18,000 lb
Rear Axle Weight Rating	34,000 lb
Wheelbase	230 +/- 8 in
Cab to Axle.....	162 +/- 6 in
Afterframe.....	114 +/- 6 in
RBM per Frame Rail.....	1,800,000 lb/in

RANGE DIAGRAM

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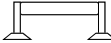
Outriggers Fully Extended (100%)




BOOM LOAD CHARTS



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Outriggers Fully Extended (100%)


 (100%)


 21 to 51 ft

Standard ASME B30.5



	Boom Length					
	21	29	36	43	51	
ft	lb	lb	lb	lb	lb	ft
5	38,000					5
8	28,200	25,550	24,850			8
10	24,000	22,700	21,900	17,800	17,400	10
12	20,900	19,800	19,000	15,400	15,000	12
14	18,300	17,500	16,800	13,500	13,100	14
16	16,000	15,700	15,100	12,100	11,700	16
19	11,400	13,500	13,100	10,400	10,100	19
23		11,000	11,000	8,725	8,425	23
27		6,625	9,325	7,425	7,225	27
30			8,025	7,225	6,525	30
34			4,825	6,225	5,725	34
38				5,025	5,425	38
41				3,125	4,825	41
45					4,025	45
49					2,425	49

Boom at 0°

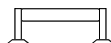
 (100%)


 21 to 51 ft

Standard ASME B30.5



	Boom Length					
	21	29	36	43	51	
°	lb	lb	lb	lb	lb	°
0	9,000	6,000	4,000	2,800	2,000	0

With Jib, Retracted and Extended


(100%)


21 to 51 ft

Standard ASME B30.5

	Jib Capacities for All Boom Lengths									
	80°	75°	70°	65°	60°	55°	50°	45°		40°
ft	lb	lb	lb	lb	lb	lb	lb	lb	lb	ft
18	6,025	4,825	3,725	2,825	2,225	1,825	1,625	1,425	1,025	18
29	3,825	3,025	2,325	1,825	1,425	1,125	925	825	725	29

Notes to lifting capacity



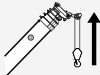





Lifting capacities do not exceed 85% of tipping load. Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings. Consult operation manual for further details.

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.







TECHNICAL DESCRIPTION

TM 3851


Boom, Jib and Rotation

	Three-section full power fully synchronized telescopic keel boom	
	Boom length	21–51 ft
	Boom maximum tip height	61 ft
	Boom elevation angle range (min/max)	-8° / 82°
	Boom up/down time	25/16 seconds
	Boom extension/retraction time	43/20 seconds
	Boom head	Quick reeving
	Maximum tip height: boom with jib 18–29 ft	90 ft
	360° non-continuous rotation	

Operator Controls

	Hoist line pull	11,400 lb
	Hoist line speeds	163 ft/min
	Rope diameter	9/16"
	Overhaul ball	6.25 USt
	1 Sheave block	17.5 USt
	2 Sheave block	22.5 USt
	1 part line	9,600 lb
	2 part line	19,200 lb
	3 part line	28,800 lb
	4 part line	38,400 lb
	Fully proportional Independent outrigger controls	

Understructure

	Front: Link-type	
	To outer edge of pad	21 ft 8 in
	Rear: "A" pattern	
	To outer edge of pad	10 ft

Optional Features

Two-stage jib
Rotation resistant rope
Multi-part load blocks
Main hoist with 2 speed motor
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

Effective Date: May 2013. 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 2013 Terex Corporation.

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