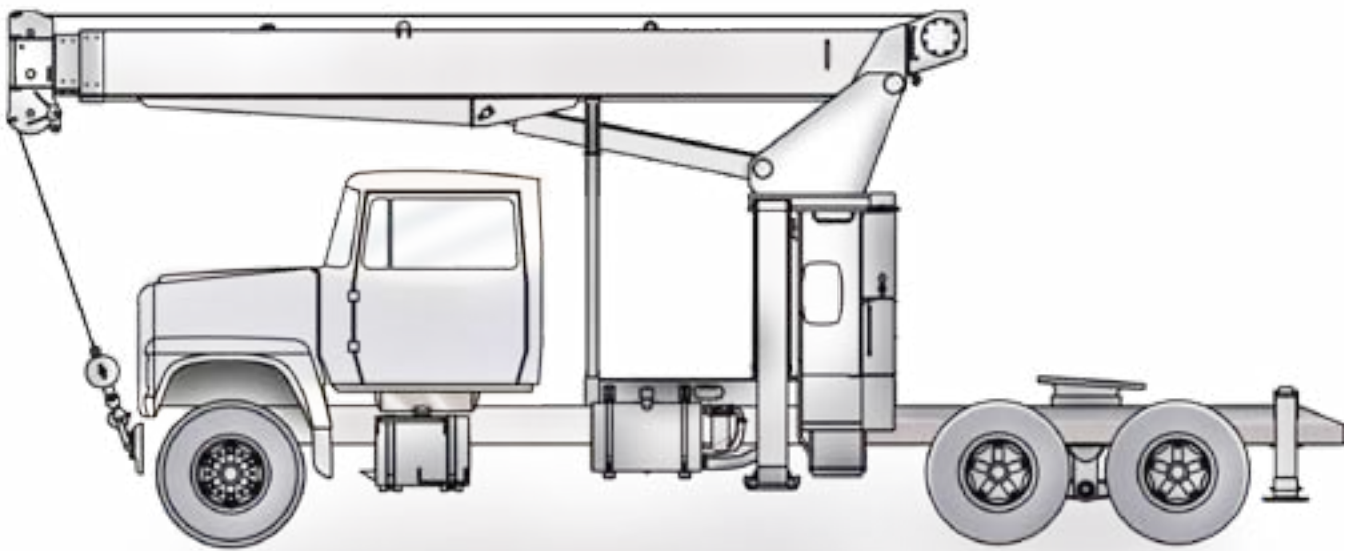


# TM 3851



## Features

- ▶ 19 t @ 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 sheave height with 29 ft jib
- ▶ Quick reeving dual sheave boom head

**Key**

..... 3

**Dimensions**

**Crane Dimensions** ..... 4, 5  
**Area of Operations** ..... 5  
**Mounting Specification** ..... 5  
**Range Diagram** ..... 6

**Load charts**

**Boom Load Charts** ..... 7  
**Jib, Retracted & Extended** ..... 7

**Technical description**

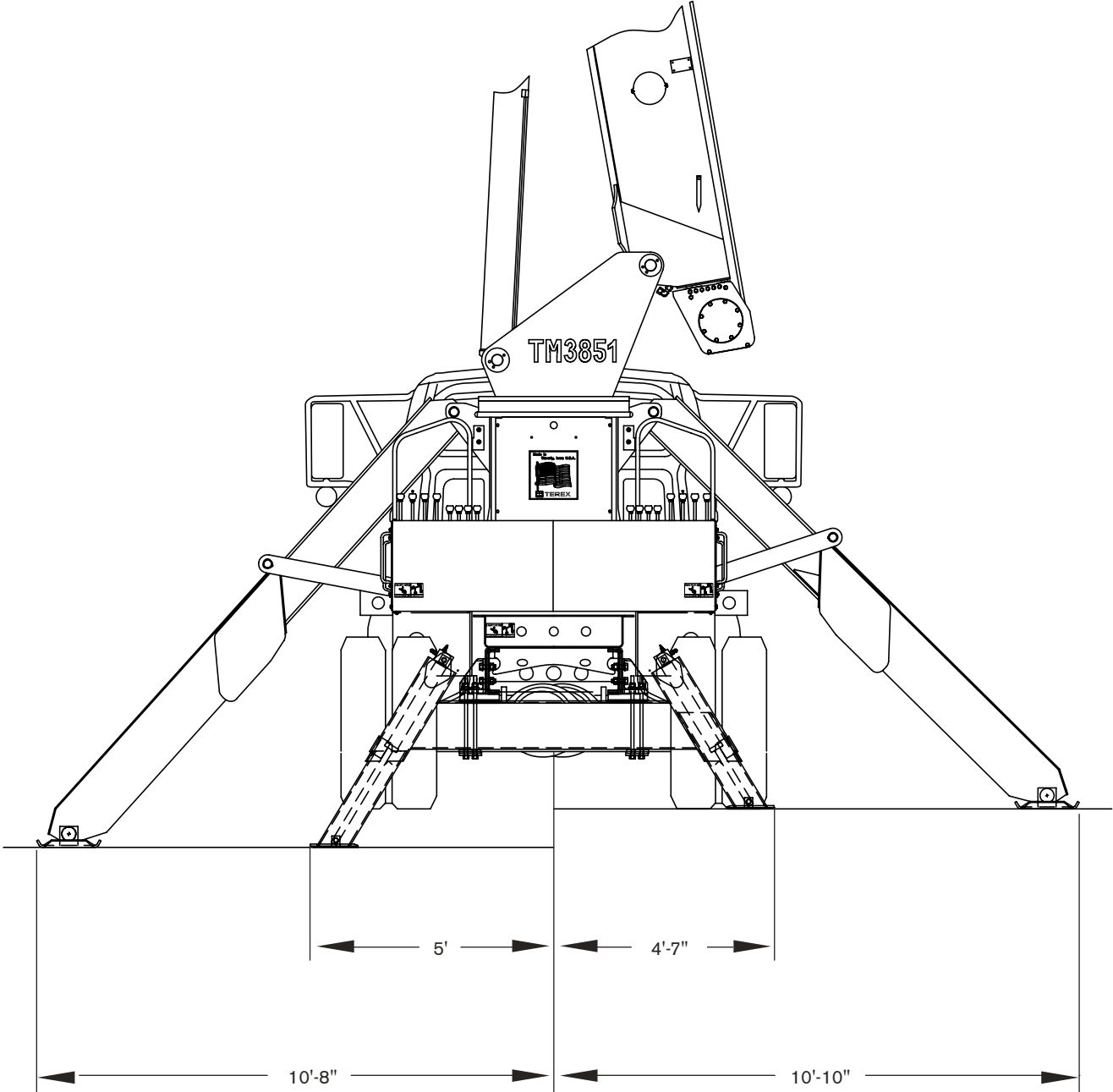
**Boom, Jib and Rotation** ..... 8  
**Operator Controls** ..... 8  
**Understructure** ..... 9  
**Optional Features** ..... 9

	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

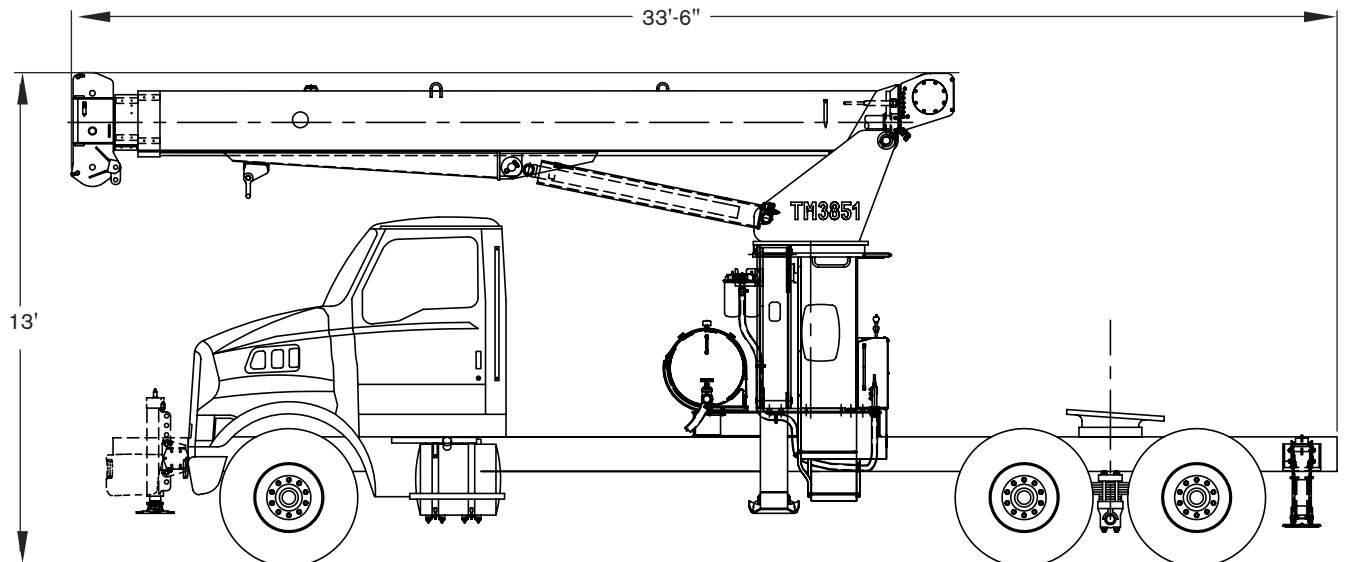
TM 3851



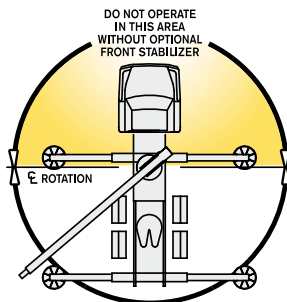
# DIMENSIONS

TM 3851

## Crane Dimensions



## Area of Operation



## Mounting Specifications

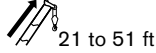
Gross Vehicle Weight Rating .....	52,000 lb
Front Axle Weight Rating .....	18,000 lb
Rear Axle Weight Rating .....	34,000 lb
Wheelbase .....	230 +/- 8 in
Cab to Axle .....	162 +/- 6 in
Afterframe .....	114 +/- 6 in
RBM per Frame Rail .....	18,000,000 lb/in





# BOOM LOAD CHARTS

TM 3851

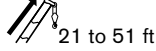
## Outriggers Fully Extended (100%)





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

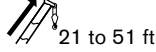
## Boom at 0°





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



Standard ASME B30.5

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




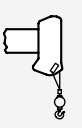
# TECHNICAL DESCRIPTION

**TM 3851**

## Boom, Jib and Rotation

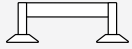
	Three-section full power fully synchronized telescopic keel boom	
	Boom length	21–51 ft
	Boom maximum sheave height	21 ft
	Boom elevation angle range (min/max)	-8° / 82°
	Boom up/down time	25/16 seconds
	Boom extension/retraction time	43/20 seconds
	Boom head	Quick reeving
	Maximum sheave height: boom with jib 18–29 ft	61 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 t
	1 Sheave block	17.5 t
	2 Sheave block	22.5 t
	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

20 ft 5 in

**Rear: "A" pattern**  
To outer edge of pad

10 ft 2 in

## 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



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Effective Date: October 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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Brochure Reference: TC-DS-I-E-TM 3851-10/10



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