

**Boom Truck Crane 45T capacity class** 

**Datasheet imperial** 

PRELIMINARY

# CROSSOVER 4500



#### **Features**

- ▶ 45 tons @ 9 ft capacity at rated distance from center of rotation
- ▶ 105 ft maximum boom length
- ▶ 110 ft maximum tip height
- 32/49 ft optional jib
- ▶ 155 ft maximum sheave height with 49 ft jib
- Operator cab standard
- Rated capacity indicator with work area definition

**WORKS FOR YOU.** 

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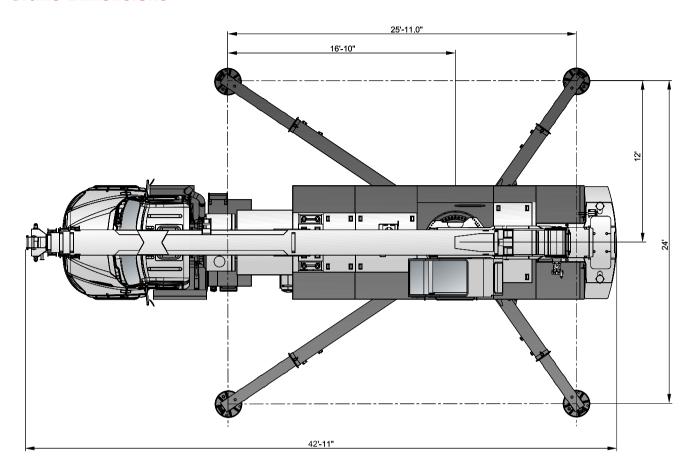
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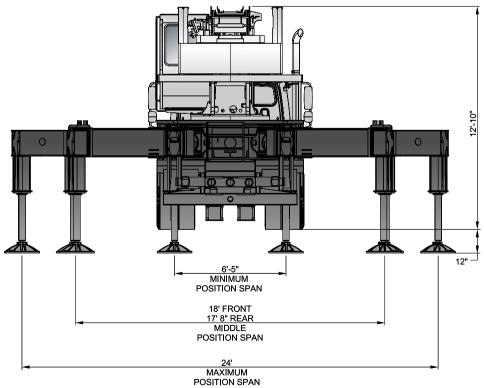
# **CROSSOVER 4500**

A			
48	Main boom		Counterweight
	Boom length	1	Main Hoist
<b>***</b>	Tip height	2	Auxiliary hoist
	Boom with jib		Hoist line speed
WILLIAM TO	Telescoping mode		Cab
	Boom angle		Operator aid
	Working radius		Controls
	Main boom with aux head	HYDR	Hydraulics
	Boom head	<u> </u>	Heating / Air conditioning
	Hook block		Outriggers
	Hook to head sheave pin	1	Rotation / Allowable rotation range
	Rope - Standard / Optional		Slewing brake
	Rope diameter	1	Boom over the rear
	Rope length		Boom over the front
<b>←</b>	Permissible line pull	<b>(</b>	Area of operation
Ib ••	Maximum line pull		

# **DIMENSIONS**

#### **Crane Dimensions**

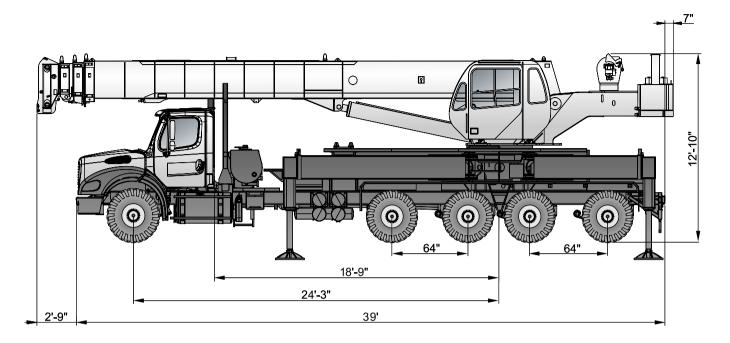




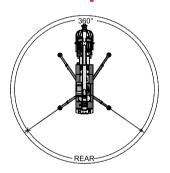


# **DIMENSIONS**

#### **Crane Dimensions**



# **Area of Operation**



## **Mounting Specifications**

Gross Vehicle Weight Rating 88,000 lb
Front Axle Weight Rating20,000 lb
Rear Axle Weight Rating 40,000 lb
Pusher
Tag
Wheelbase
Cab to Axle
Afterframe
RBM per Frame Rail
Frame Height (Unloaded)

Base machine	65,000 lb
Crane fitted with jib and mounted on freightliner	
chassis.	

#### Estimated minimum chassis weight:

Front axle
Tandem axles
Total weight

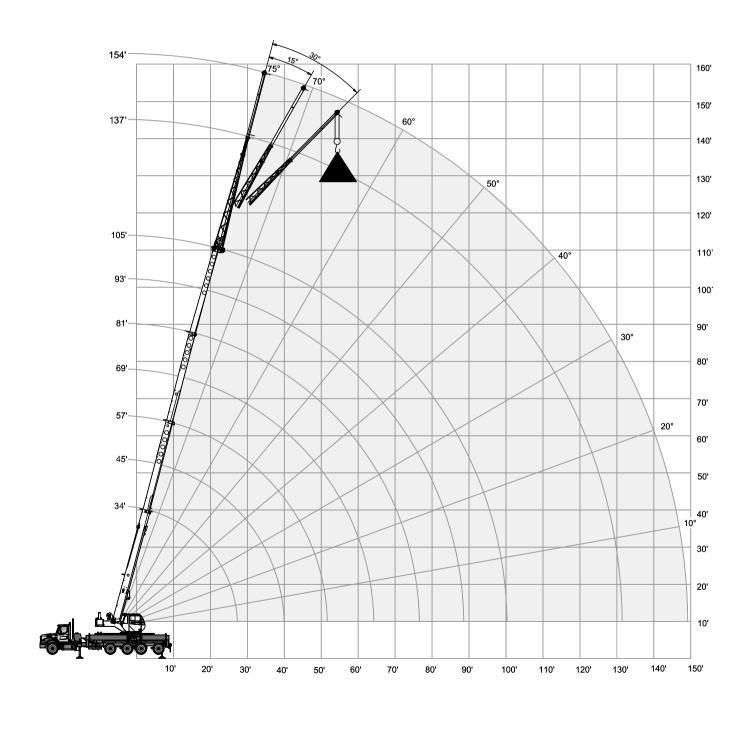
<sup>\*</sup> Minimum bare chassis weight requirements. Must ballast to minimum if required.

# **RANGE DIAGRAM**

## **CROSSOVER 4500**

**Outriggers Fully Extended (100%)** 







# **BOOM LOAD CHART**

## **CROSSOVER 4500**

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

2,000 lbs

(100%)

over rear



Standard ASME B30.5

	Boom Length														
	34	ft	45	ft	57	ft	69	ft	81	ft	93	ft	10	5 ft	_
ft	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	ft
9	90,000	90,000													9
10	64,400	64,400	46,500	46,500											10
12	58,000	58,000	46,500	46,500	46,500	46,500									12
15	50,700	50,700	46,500	46,500	44,500	44,500	41,600	41,600							15
20	36,000	36,000	36,900	36,900	36,400	36,400	34,800	34,800	30,600	30,600					20
25	27,100	27,100	28,100	28,100	28,600	28,600	29,000	29,000	26,000	26,000	23,400	23,400			25
30			22,100	22,100	22,700	22,700	23,000	23,000	22,500	22,500	20,300	20,300	18,600	18,600	30
35			17,800	17,800	18,400	18,400	18,800	18,800	19,000	19,000	17,700	17,700	16,200	16,200	35
40			14,500	14,500	15,200	15,200	15,600	15,600	15,800	15,800	15,600	15,600	14,400	14,400	40
45					12,700	12,700	13,100	13,100	13,400	13,400	13,500	13,500	12,900	12,900	45
50					10,700	10,700	11,100	11,100	11,400	11,400	11,500	11,500	11,600	11,600	50
55							9,500	9,500	9,700	9,700	9,900	9,900	10,100	10,100	55
60							8,100	8,100	8,400	8,400	8,600	8,600	8,700	8,700	60
65									7,200	7,200	7,400	7,400	7,500	7,500	65
70									6,200	6,200	6,400	6,400	6,500	6,500	70
75									5,300	5,200	5,500	5,400	5,700	5,500	75
80											4,800	4,500	4,900	4,700	80
85											4,100	3,800	4,300	3,900	85
90													3,700	3,300	90
95													3,100	2,800	95
100													2,600	2,300	100

#### **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**

## **CROSSOVER 4500**

#### With Jib, Extended

2,000 lbs

(100%)



Standard ASME B30.5

32 ft Offsettable Jib						
(	)°	1:	5°	30°		
ft ft	lbs	ft ft	lbs	ft ft	lbs	
43	9,200	51	8,400	57	6,500	
47	8,800	55	8,100	61	6,300	
51	8,400	59	7,700	65	6,200	
56	7,800	64	7,300	70	5,900	
62	7,200	69	6,700	75	5,800	
68	6,300	75	5,600	80	5,500	
74	5,200	81	4,800	85	4,800	
80	4,300	87	4,100	90	4,000	
87	3,600	93	3,400	97	3,400	
94	3,000	99	2,800	102	2,800	
101	2,400	105	2,300	107	2,200	
108	1,800	112	1,700	113	1,700	
115	1,300	119	1,300	120	1,300	
112	900	125	900			

49 ft Offsettable Jib						
(	)°	1:	5°	30°		
ft ft	lbs	ft ft	lbs	ft ft	lbs	
47	5,000	57	3,300	66	2,600	
52	4,700	63	3,200	71	2,600	
58	4,400	69	3,100	76	2,500	
65	4,000	76	2,900	82	2,400	
72	3,700	83	2,800	89	2,400	
79	3,500	89	2,700	95	2,300	
86	3,300	95	2,600	101	2,300	
93	3,000	102	2,500	107	2,200	
101	2,800	108	2,400	113	2,200	
108	2,400	114	2,200	119	2,100	
115	1,900	120	1,800	125	1,700	
122	1,500	127	1,400	131	1,300	
130	1,100	134	1,000	136	1,000	
139	700	141	700			

#### **Notes to lifting capacity**

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# **TECHNICAL DESCRIPTION**

# **Boom, Jib and Rotation**

	Four-section full pow	ver fully synchronized telelscopic boom	
	Boom length	Retracted Extended	34 ft 105 ft
1	Boom maximum tip h	neight	115 ft
	Boom elevation angle	e range (min. / max.)	-4° / 77°
	Boom head		quick reeving
	Maximum tip height v	stable length - can be offset to 0°, 15° or 30°	32 ft 140 ft 32 ft / 49 ft 158 ft
	360° continuous rota	ation	
	4 metallic sheaves Quick reeving design	1	45 T
	Top swivel ball with h	nook and latch	7 T
111	Independent outrigge	er controls	
	Load moment / Rater ATB system	d capacity indicator with work area definition	

# **Hoists and Rope**

1	Two speeds First layer (no load speed) Fifth layer (no load speed)	Low Speed: 167 ft/min 242 ft/min	High Speed: 335 ft/min 487 ft/min
	First layer Fifth layer	Low Speed: 15,639 lb 10,827 lb	High Speed: 7,298 lb 5,052 lb
<b>←∭</b>	Permissible line pull		9,000 lb
		6 x	19 IWRC XIPS
	Maximum useable		455 ft
			0.625 in

# **TECHNICAL DESCRIPTION**

## **CROSSOVER 4500**

2	Two speeds First layer (no load speed) Fifth layer (no load speed)	Low Speed: 167 ft/min 242 ft/min	High Speed: 335 ft/min 487 ft/min
	First layer Fifth layer	Low Speed: 15,639 lb 10,827 lb	High Speed: 7,298 lb 5,052 lb
<b>←888888</b> →	Permissible line pull		9,000 lb
		Optional  Rotation resistant compacted	strand 18 x 19
			0.625 in

#### **Hydraulics**

HYDR	Triple pump: Hoist pump Boom lift / telescope Outrigger / swing	60.3 gal/min @ 3,500 psi 45.1 gal/min @ 3,500 psi 22 gal/min @ 2,500 psi
	Single pump: Power steering	8 gal/min @ 2,000 psi
	Full flow with bypass protection: Suction Return	250 micron screen 5 micron filter
	Pressurized tank with sight level gauge	91 gal

#### **Upper Operator Cab**



Upper cab
Sliding door on left side
Sliding window on the right side
Tilting, tinted glass skylight
Removable front windshield
Six-way adjustable seat with armrest dual-axis electro-proportional joysticks
Joystick control for hoist(s), swing and boom elevation
Foot pedals for swing brake, boom telescope and engine rpm
Hand control for engine rpm



Optional features for upper cab
Air conditioning – hydraulically powered
Heater and air conditioning package – hydraulically powered
Liquid propane (LP) cab heater
Single-axis armrest mounted controls
Work lights



Rated capacity indicator with pictograph display of boom radius, boom angle, boom length, allowable load, actual load and % of allowable load
Settable alarms for swing angle, boom length, boom angle, tip height and work area exclusion zone



# **TECHNICAL DESCRIPTION**

## **CROSSOVER 4500**

#### **Boom Rotation**



Foot pedal actuated multi-disc brake and air actuated 360° house lock



Hydraulic driven double planetary reduction gear drive

2.8 rev/min

## **Counterweight**



Main counterweight, non removable bolted to upper crane structure

2,000 lb counterweight package

# **Outriggers**

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X-pattern MAX F

Front: Swing, Out and Down
To outer edge of pad

Rear: Swing, Out and Down
To outer edge of pad

26 ft

26 ft

MID Front: Swing, Out and Down

20 ft

Rear: Swing, Out and Down

19.5 ft

#### www.terexcranes.com

Effective Date: October 2011.

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.

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Brochure Reference: TC-DS-I-E-Crossover 4500-10/11



