



BOOM TRUCK CRANE
BT 4792
RM 4792

DATASHEET - IMPERIAL

BT 4792 RM 4792



Model:
BT 4792

Features:

- ▶ 23.5 t @ 5 ft capacity at rated distance from center of rotation
- ▶ 92 ft maximum boom length
- ▶ 26/44 ft optional jib
- ▶ 144 ft maximum sheave height with 44 ft jib
- ▶ Electronic load moment indicator
- ▶ Quick reeving boom head

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Dimensions

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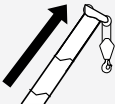
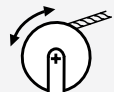
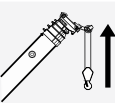
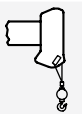
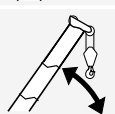
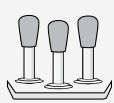
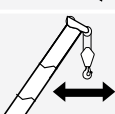
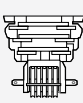
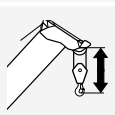
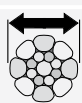
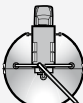


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KEY

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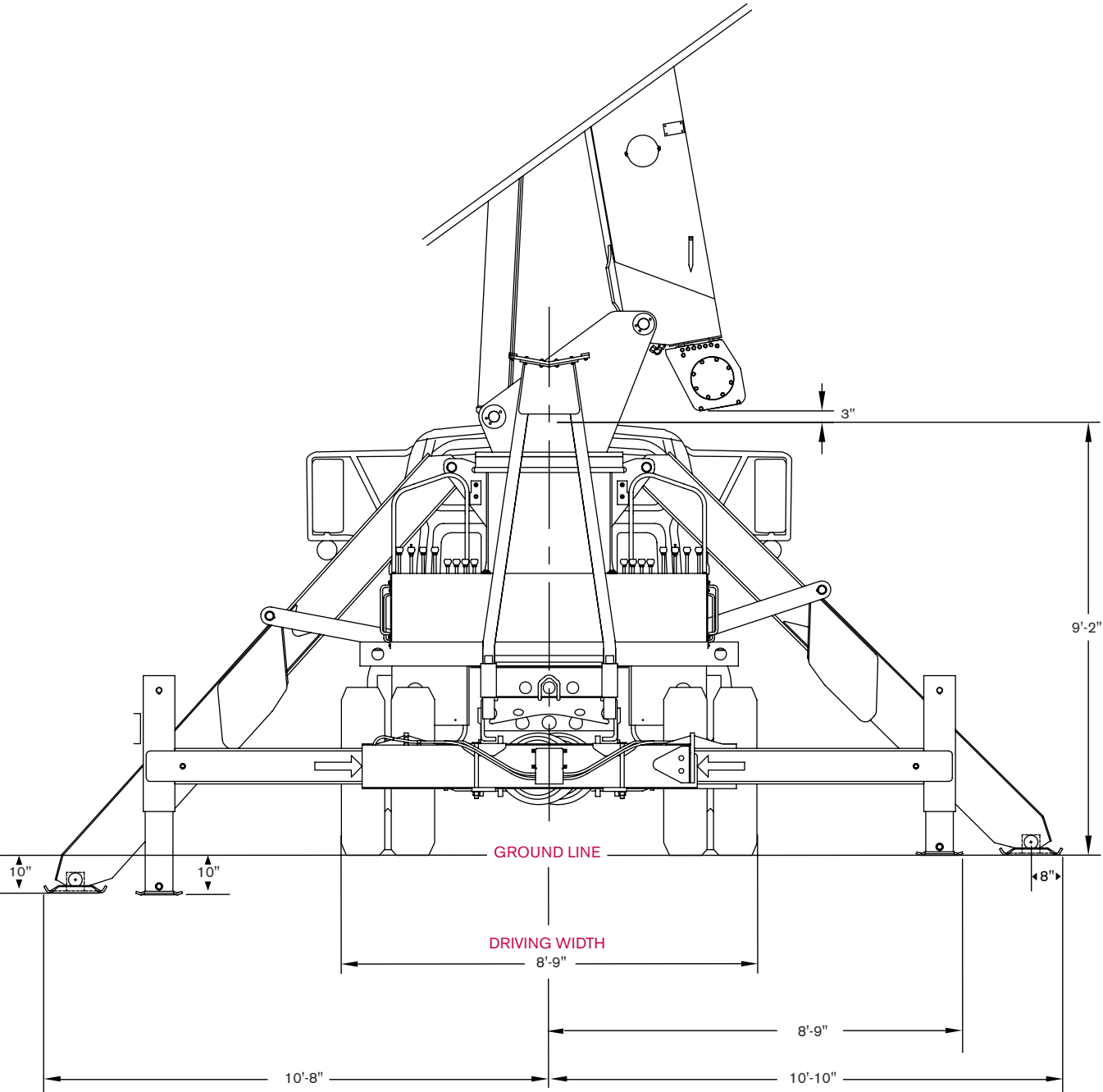
	Main boom		Main Hoist
	Boom length		Hoist line speed
	Tip height		Part line
	Telescoping mode		Operator aid
	Boom angle		Controls
	Working radius		Hydraulics
	Boom with jib		Working temperature
	Boom head		Outriggers
	Hook block		Working speeds
	Hook to head sheave pin---		Rope – Standard / Optional
	Rotation / Allowable rotation range		Rope diameter
	Boom angle		Rope length
	Boom over the rear/BT 4792		Line pull
	Boom 360°/RM 4792		



DIMENSIONS

BT 4792

Crane Dimensions

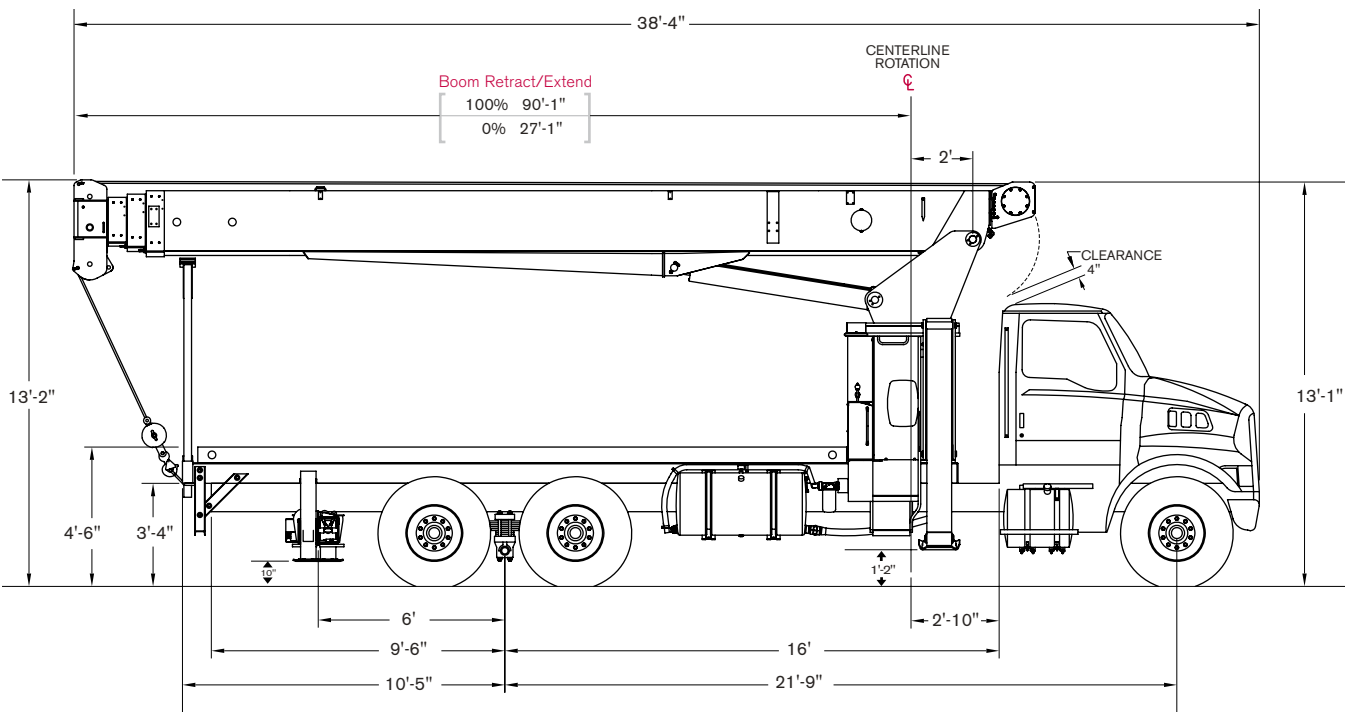




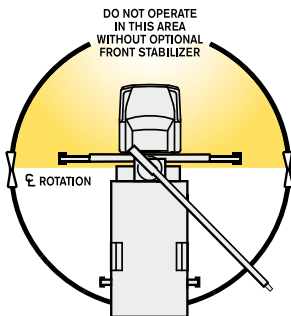
DIMENSIONS

BT 4792

Crane Dimensions



Area of Operation



Mounting Specifications

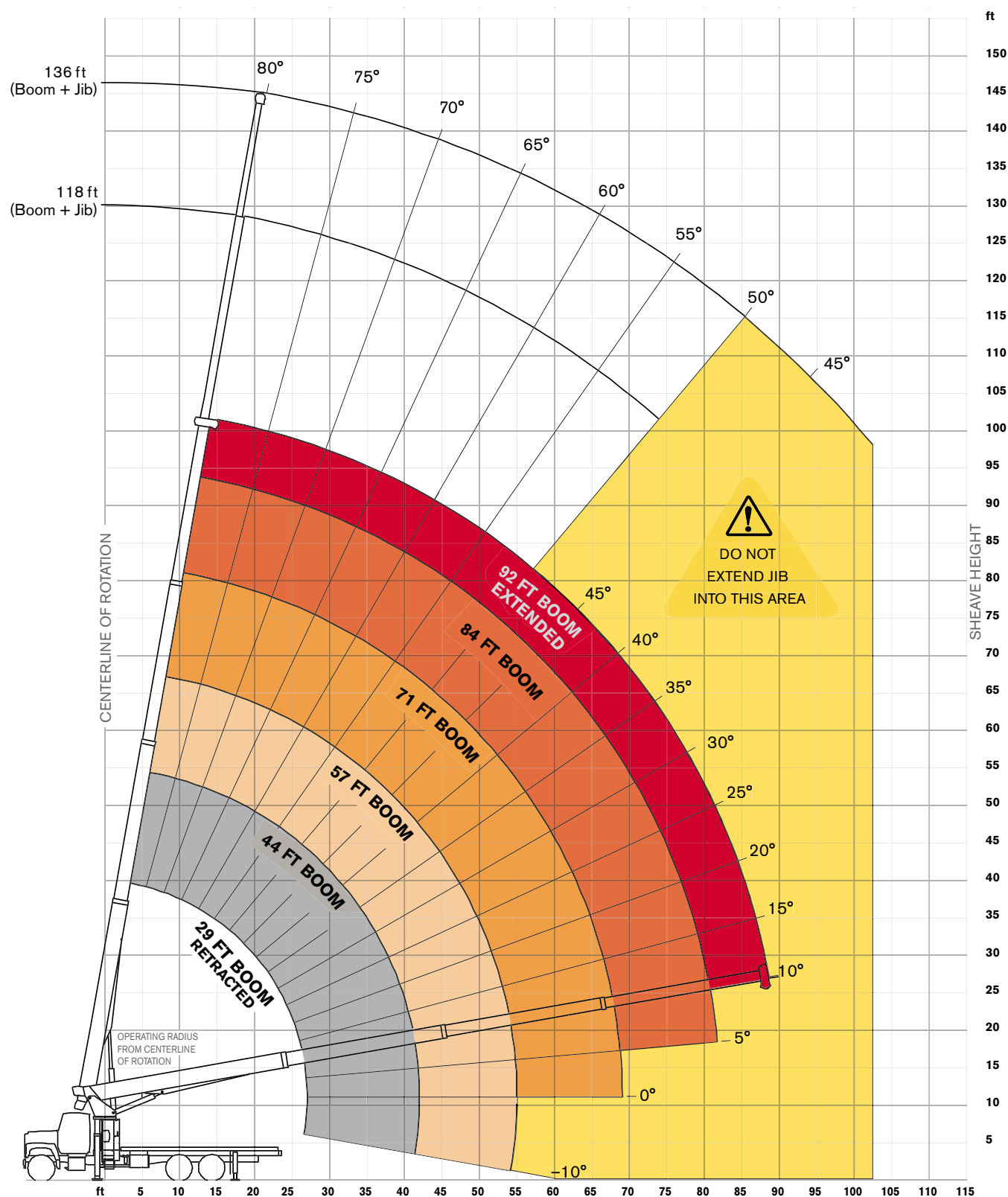
Chassis Recommendation	
Gross Vehicle Weight Rating	60,000 lb
Front Axle Weight Rating	20,000 lb
Rear Axle Weight Rating	40,000 lb
Crane weight	21,780 lbs
Wheelbase	260 +/- 8 in
Cab to Axle	192 +/- 6 in
Afterframe	114 +/- 4 in
RBM per Frame Rail	2,800,000 lb/in
Frame Height (Unloaded)	40 in
Exhaust	Horizontal Left Side



RANGE DIAGRAM

BT 4792

Outriggers Fully Extended (100%)



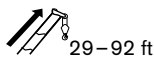
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BOOM LOAD CHARTS

BT 4792

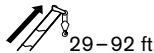
Outriggers Fully Extended (100%)



Standard ASME B30.5

 ft	Boom Length						 ft
	29 lb	44 lb	57 lb	71 lb	84 lb	92 lb	
5	47,000						5
8	36,800	20,300					8
10	30,900	20,300	18,400				10
12	26,100	20,300	17,400				12
14	21,900	19,400	16,800	14,600			14
16	18,800	17,300	15,900	13,800	12,300		16
20	14,200	13,900	13,400	12,300	10,900	9,825	20
25	10,400	10,900	10,600	10,400	9,800	9,025	25
30		8,625	8,625	8,425	8,225	7,425	30
35		6,925	6,925	6,925	6,725	6,325	35
40		5,225	5,625	5,625	5,625	5,425	40
45			4,625	4,625	4,625	4,625	45
50			3,725	3,725	3,725	3,725	50
55			1,225	3,025	3,025	3,025	55
60				2,425	2,425	2,425	60
65				2,025	2,025	2,025	65
70					1,525	1,525	70
75					1,225	1,225	75
80					825	825	80

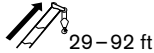
Boom at 0°



Standard ASME B30.5

 °	Boom Length						 °
	29 lb	44 lb	57 lb	71 lb	84 lb	92 lb	
0	7,500	4,000	1,225	1,100	650	550	0

With Jib, Retracted and Extended



Standard ASME B30.5

 ft	Jib Capacities for All Boom Lengths								 ft
	50° lb	55° lb	60° lb	65° lb	70° lb	75° lb	78° lb	80° lb	
26	725	1,025	1,525	2,325	3,225	4,325	4,925	5,325	26
44	425	725	1,125	1,525	2,025	2,525	2,825	3,125	44

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.

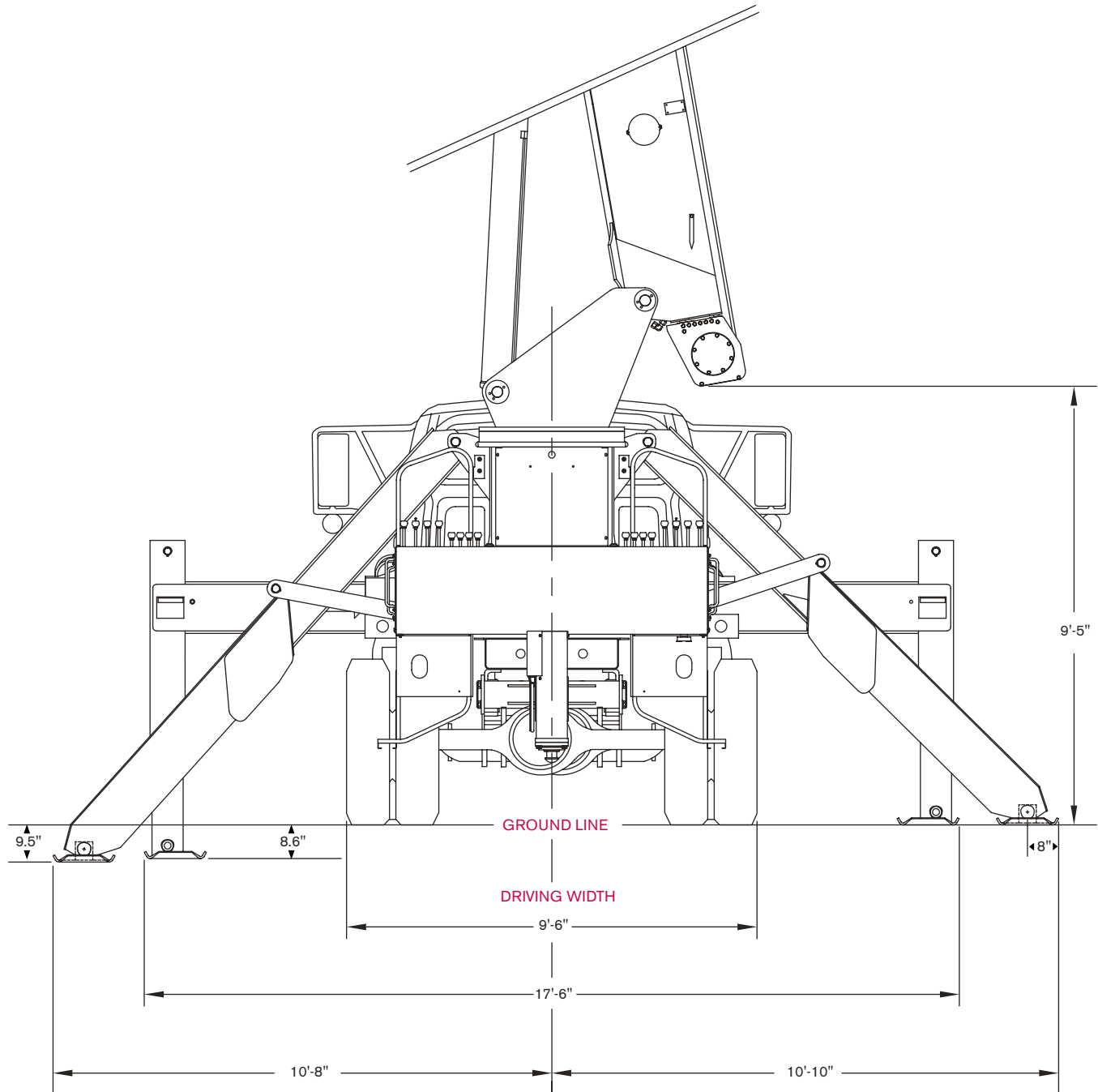
Note: Data published herein is intended as a guide only and shall not be construed to warrant applicability for lifting purposes. Crane operation is subject to the computer charts and operation manual both supplied with the crane.



DIMENSIONS

Crane Dimensions

RM 4792

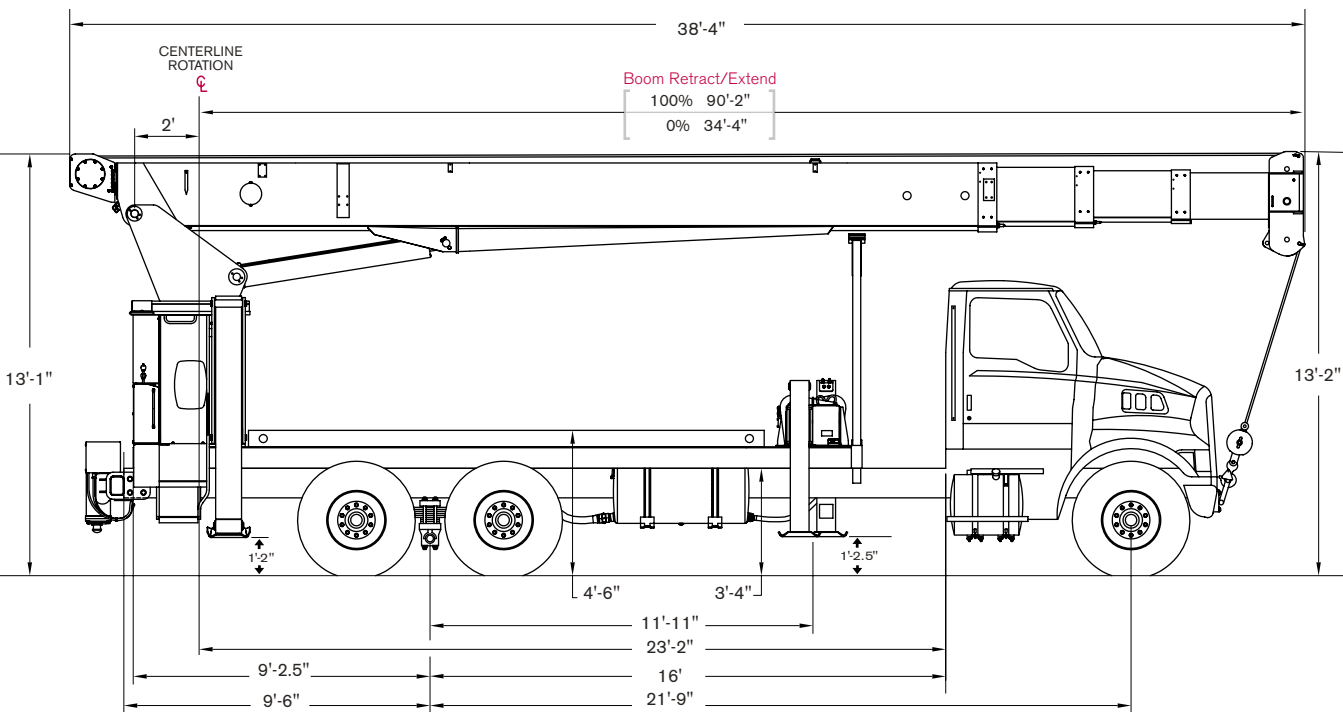




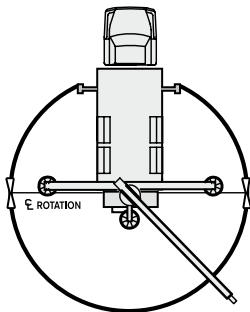
DIMENSIONS

RM 4792

Crane Dimensions



Area of Operation



Mounting Specifications

Chassis Recommendation

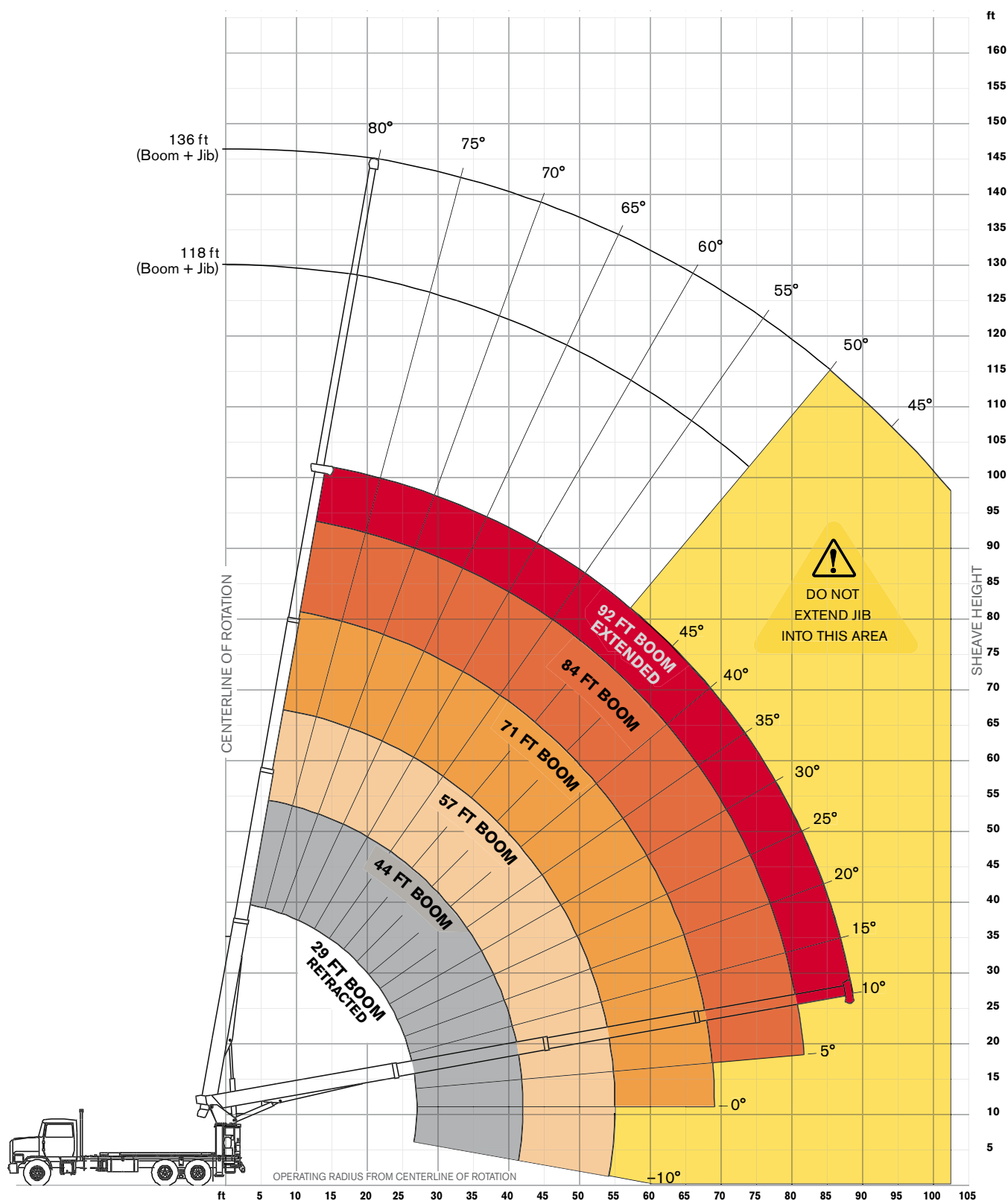
Gross Vehicle Weight Rating	60,000 lb
Front Axle Weight Rating	20,000 lb
Rear Axle Weight Rating	40,000 lb
Wheelbase	261 +/- 8 in
Cab to Axle	192 +/- 6 in
Afterframe	114 +/- 4 in
RBM per Frame Rail	1,800,000 lb/in
Frame Height (Unloaded)	40 in
Exhaust	Horizontal Left Side



RANGE DIAGRAM

Outriggers Fully Extended (100%)

RM 4792



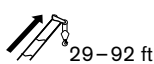
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BOOM LOAD CHARTS

RM 4792

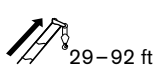
Outriggers Fully Extended (100%)



Standard ASME B30.5

	Boom Length						
	29	44	57	71	84	92	
ft	lb	lb	lb	lb	lb	lb	ft
5	47,000						5
8	36,800	20,300					8
10	30,900	20,300	18,400				10
12	26,100	20,300	17,400				12
14	21,900	19,400	16,800	14,600			14
16	18,800	17,300	15,900	13,800	12,300		16
20	14,200	13,900	13,400	12,300	10,900	9,825	20
25	10,400	10,900	10,600	10,400	9,800	9,025	25
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35		6,925	6,925	6,925	6,725	6,325	35
40		5,225	5,625	5,625	5,625	5,425	40
45			4,625	4,625	4,625	4,625	45
50			3,725	3,725	3,725	3,725	50
55			1,225	3,025	3,025	3,025	55
60				2,425	2,425	2,425	60
65				2,025	2,025	2,025	65
70					1,525	1,525	70
75					1,225	1,225	75
80					825	825	80

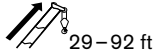
Boom at 0°



Standard ASME B30.5

	Boom Length						
	29	44	57	71	84	92	
°	lb	lb	lb	lb	lb	lb	°
0	7,500	4,000	1,225	1,100	650	550	0

With Jib, Retracted and Extended



Standard ASME B30.5

	Jib Capacities for All Boom Lengths								
	50°	55°	60°	65°	70°	75°	78°	80°	
ft	lb	lb	lb	lb	lb	lb	lb	lb	ft
26	725	1,025	1,525	2,325	3,225	4,325	4,925	5,325	26
44	425	725	1,125	1,525	2,025	2,525	2,825	3,125	44

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.

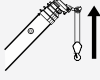
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TECHNICAL DESCRIPTION

BT 4792 / RM 4792

Boom, Jib and Rotation

	Four-section full power fully synchronized telescopic keel boom	
	Boom length	92 ft
	Boom maximum sheave height	101 ft
	Boom elevation angle range (min/max) Boom up/down time Boom extension/retraction time	-8° / 82° 41/30 seconds 80/36 seconds
	Boom head	Quick reeving
	Maximum sheave height: With optional jib 26–44 ft	144 ft
	180 degree non-continuous rotation or optional 360 degree continuous rotation	

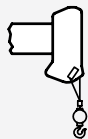
Operator Controls and Operator Aid

	Hoist line pull (1st layer)	11,400 lb
	Hoist line speed (3rd layer)	186 ft/min
	Rope diameter	9/16 in
	Breaking strength	33,600 lb
	Overhaul ball 1 Sheave block	7 t 17.5 t



TECHNICAL DESCRIPTION

BT 4792 / RM 4792



1 part line
2 part line
3 part line
4 part line

10,500 lb / 186 ft/min
21,000 lb / 93 ft / min
31,500 lb / 62 ft / min
34,000 lb / 45.5 ft/min

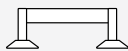


Fully proportional



Electronic load indicator

Understructure



Front: Link-type
To outer edge of pad
Rear: "H" pattern, (out and down)
To outer edge of pad

21 ft 9 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



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