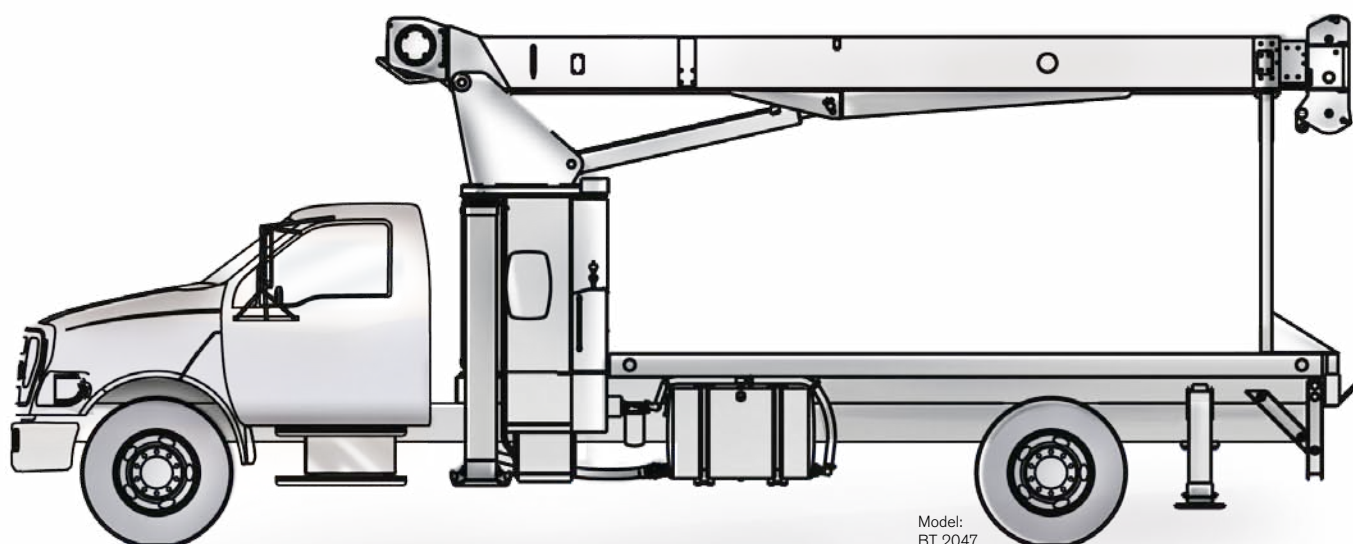




BOOM TRUCK CRANE
BT 2047
BT 2057

DATASHEET - IMPERIAL

BT 2047 BT 2057



Features: BT 2047

- ▶ 10 t @ 5 ft capacity at rated distance from center of rotation
- ▶ 47 ft maximum boom length
- ▶ 56 ft 5 in maximum tip height
- ▶ 18–30 ft optional jib
- ▶ 85 ft 9 in maximum sheave height with 30 ft jib

Features: BT 2057

- ▶ 10 t @ 5 ft capacity at rated distance from center of rotation
- ▶ 57 ft maximum boom length
- ▶ 66 ft 5 in maximum tip height
- ▶ 22–36 ft optional jib
- ▶ 101 ft 9 in maximum sheave height with 36 ft jib

WORKS FOR YOU.™

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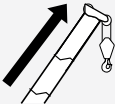
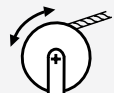
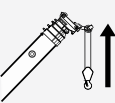
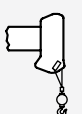
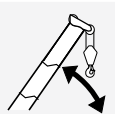
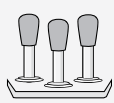
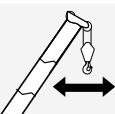
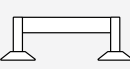
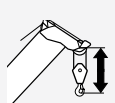
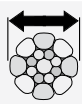
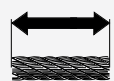
Technical description

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KEY

BT 2047 / BT 2057

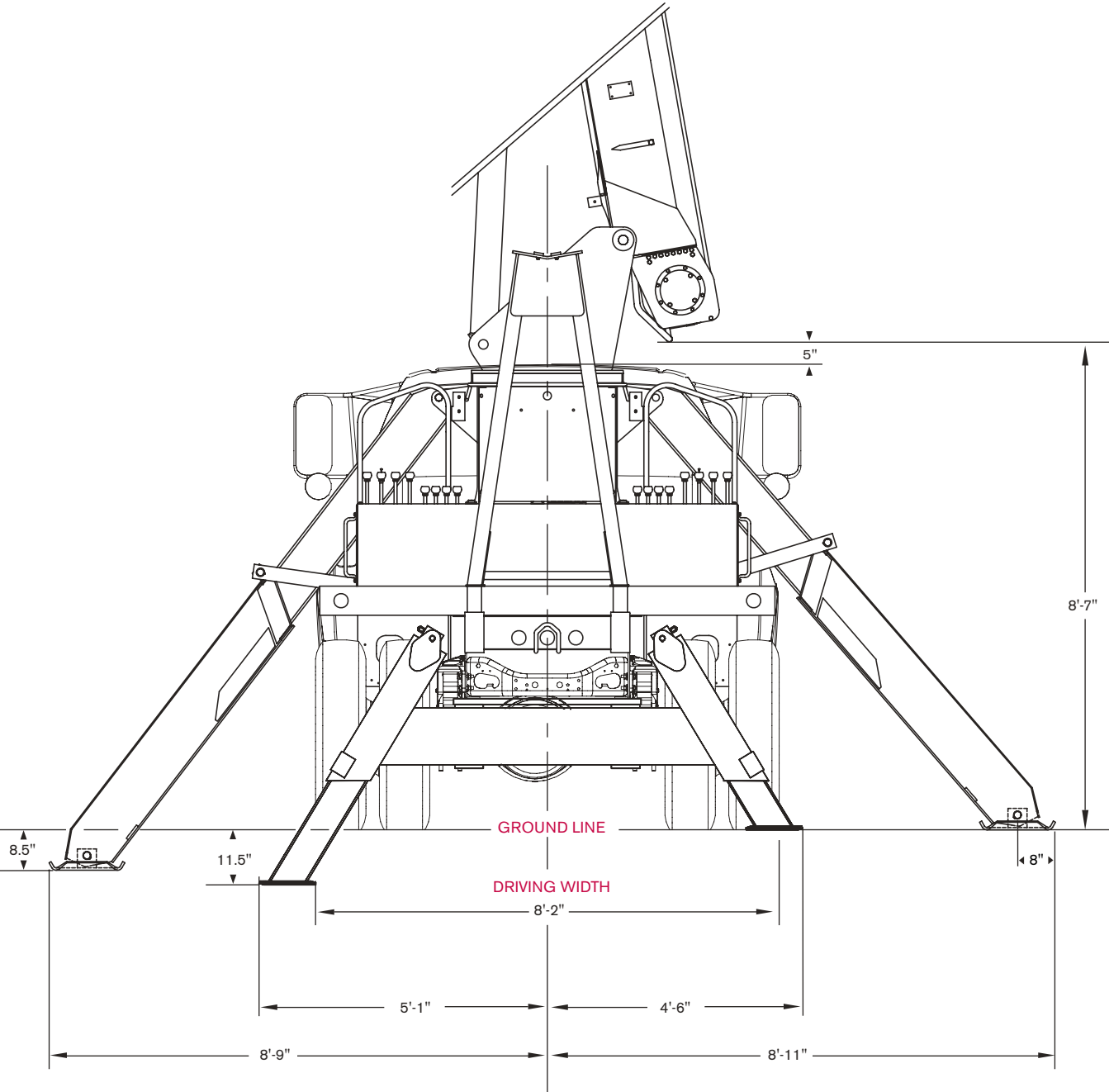
	Main boom		Main Hoist
	Boom length		Hoist line speed
	Tip height		Part line
	Telescoping mode		Operator aid
	Boom angle		Controls
	Working radius		Hydraulics
	Boom with jib		Working temperature
	Boom head		Outriggers
	Hook block		Working speeds
	Hook to head sheave pin---		Rope – Standard / Optional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



DIMENSIONS

BT 2047

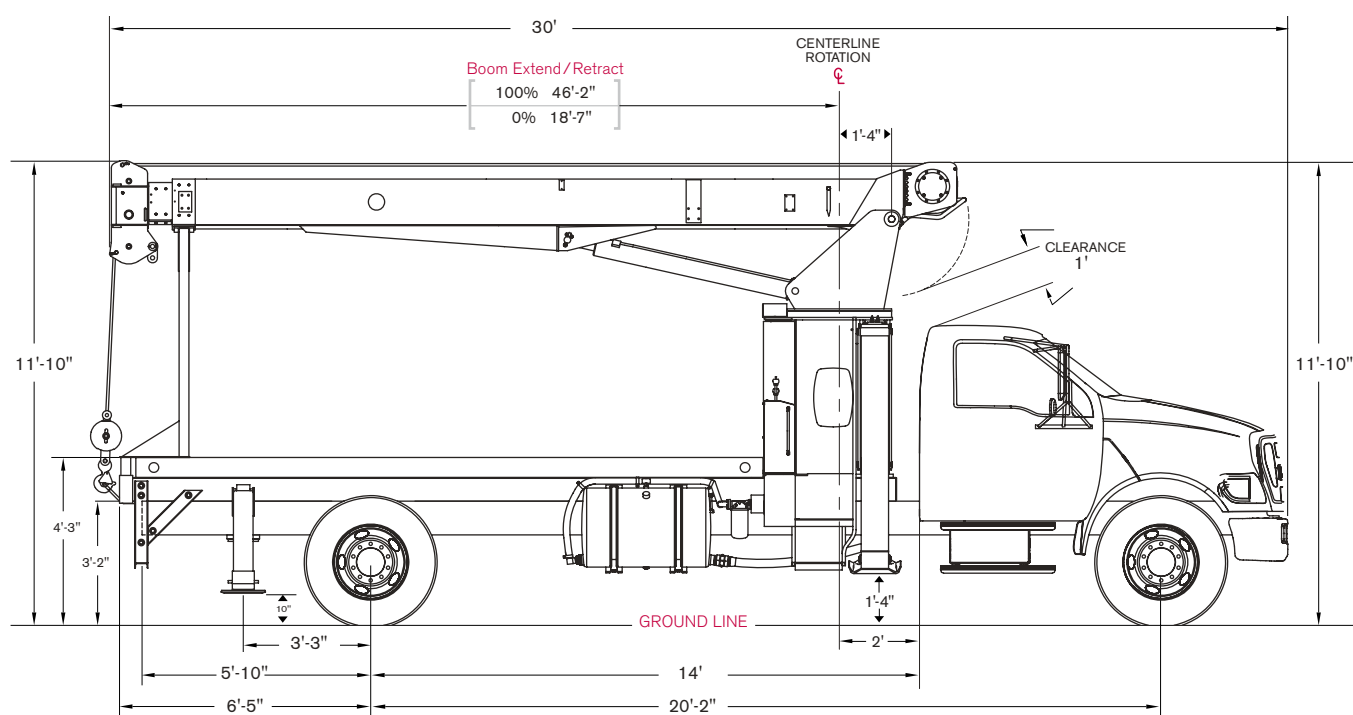
Crane Dimensions



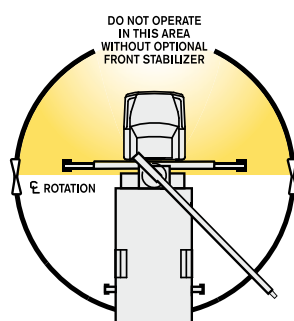
DIMENSIONS

BT 2047

Crane Dimensions



Area of Operation



Mounting Specifications

Chassis recommendation

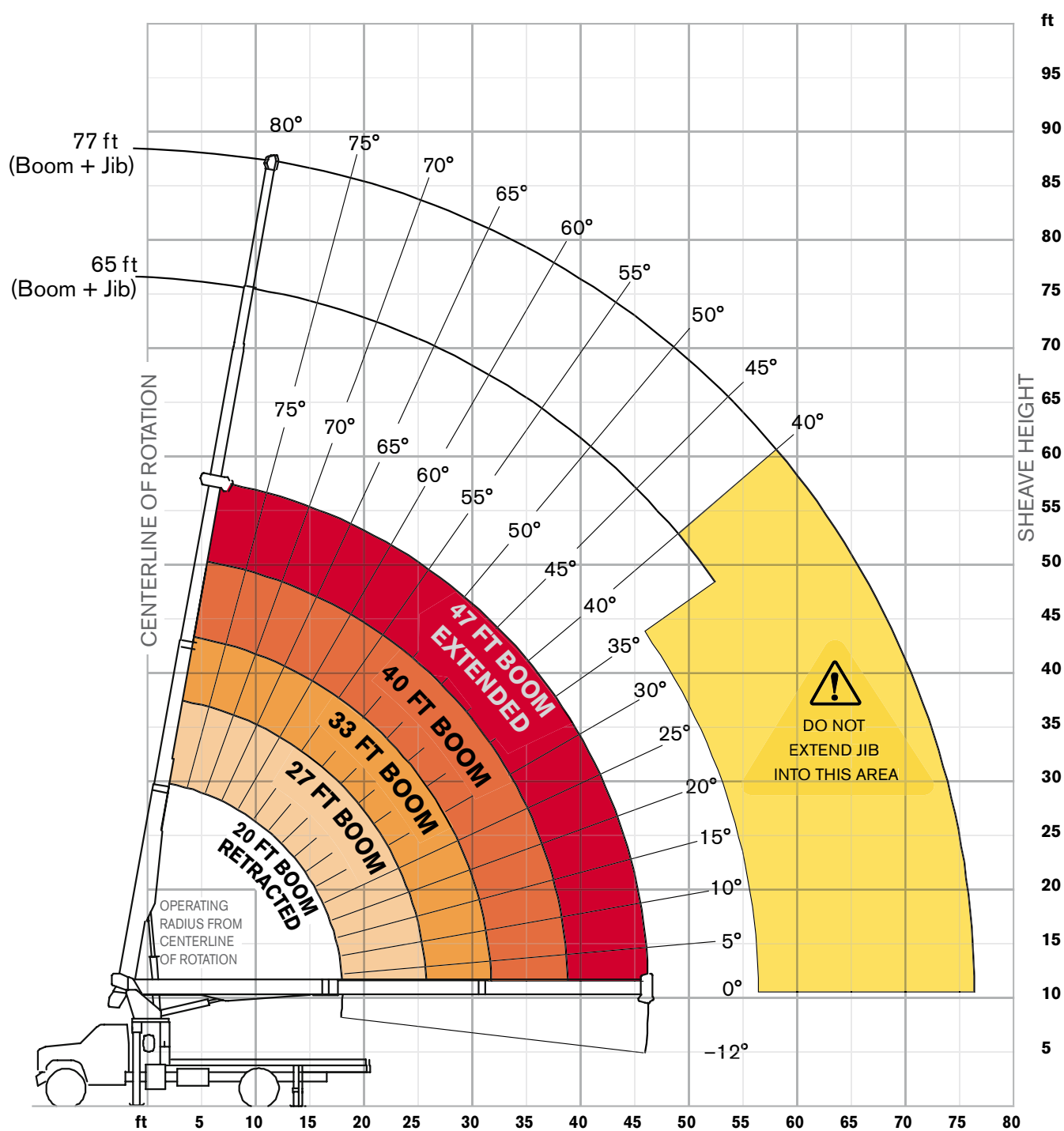
Gross vehicle weight rating	33,000 lb
Front axle weight rating	12,000 lb
Rear axle weight rating	21,000 lb
Crane weight	10,700 lb
Wheelbase	230 +/- 4 in
Cab to axle	156 +/- 4 in
Afterframe	80 +/- 4 in
RBM per framerail	1,200,000 lb/in



RANGE DIAGRAM

BT 2047

Outriggers Fully Extended (100%)



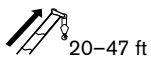
TEREX®



BOOM LOAD CHARTS

BT 2047

Outriggers Fully Extended (100%)



Standard ASME B30.5

	Boom Length					
	20	27	33	40	47	
ft	lb	lb	lb	lb	lb	ft
5	20,000	12,520				5
8	12,830	12,230	11,850	11,170		8
10	10,830	10,270	9,900	9,370	8,220	10
12	9,350	8,860	8,520	8,130	7,430	12
14	8,150	7,800	7,480	7,370	6,730	14
16	7,240	7,100	6,810	6,540	6,090	16
18	5,850	6,360	6,120	5,870	5,450	18
20		5,660	5,550	5,320	4,930	20
25		3,900	4,300	4,260	4,060	25
28			3,700	3,690	3,510	28
31			2,890	3,210	3,140	31
35				2,690	2,670	35
38				2,110	2,370	38
40					2,250	40
45					1,800	45
46					1,465	46

With Jib, Retracted and Extended



Standard ASME B30.5

	Jib Capacities for All Boom Lengths										
	35°	40°	45°	50°	55°	60°	65°	70°	75°	78°	
ft	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	ft
18	800	900	1,040	1,200	1,430	1,760	2,180	2,800	3,700	4,400	18
30	—	500	550	600	700	810	1,000	1,260	1,660	2,060	30

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.

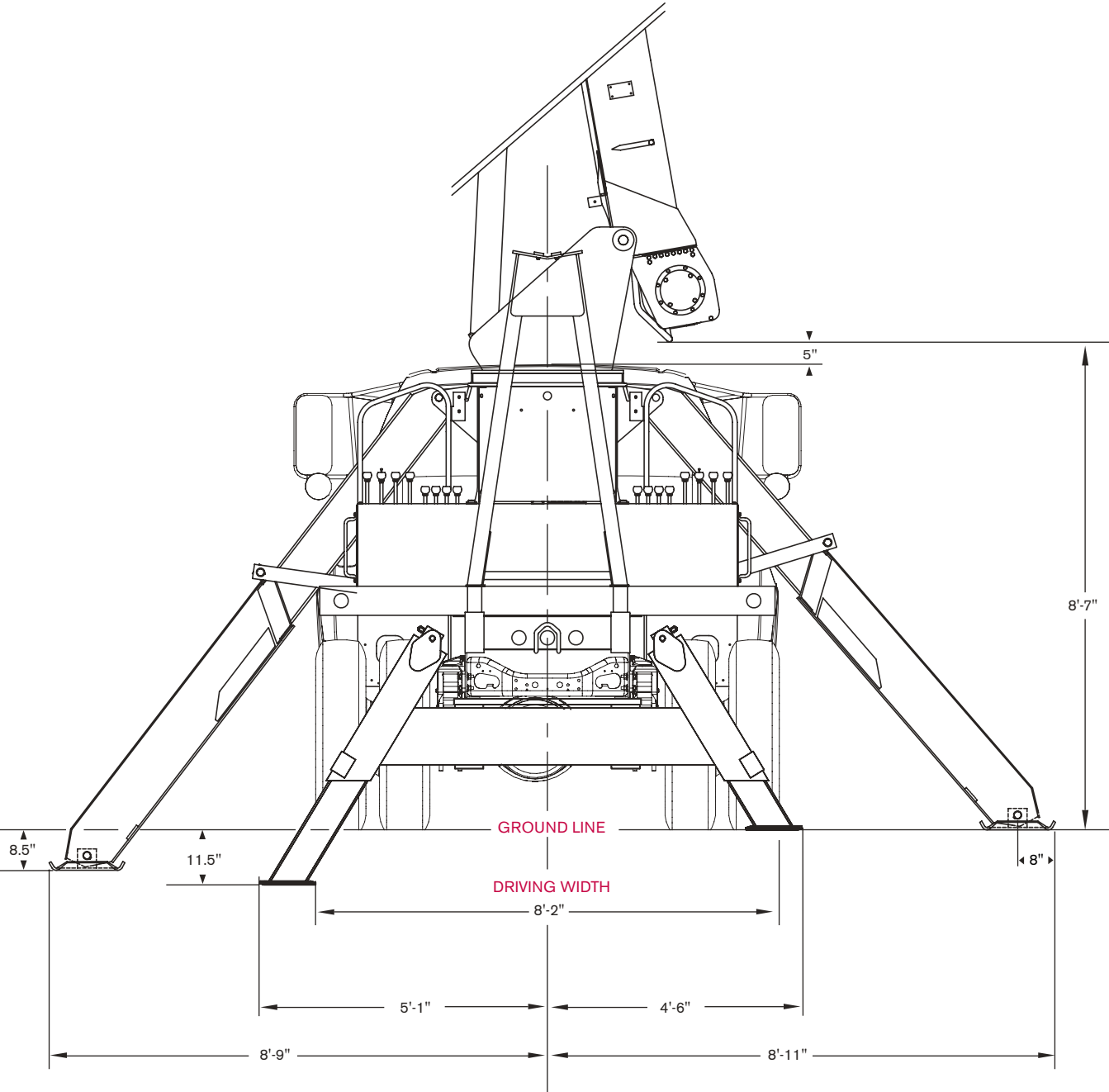
Note: Data published herein is intended as a guide only and shall not be construed to warrant applicability for lifting purposes. Crane operation is subject to the computer charts and operation manual both supplied with the crane.



DIMENSIONS

BT 2057

Crane Dimensions



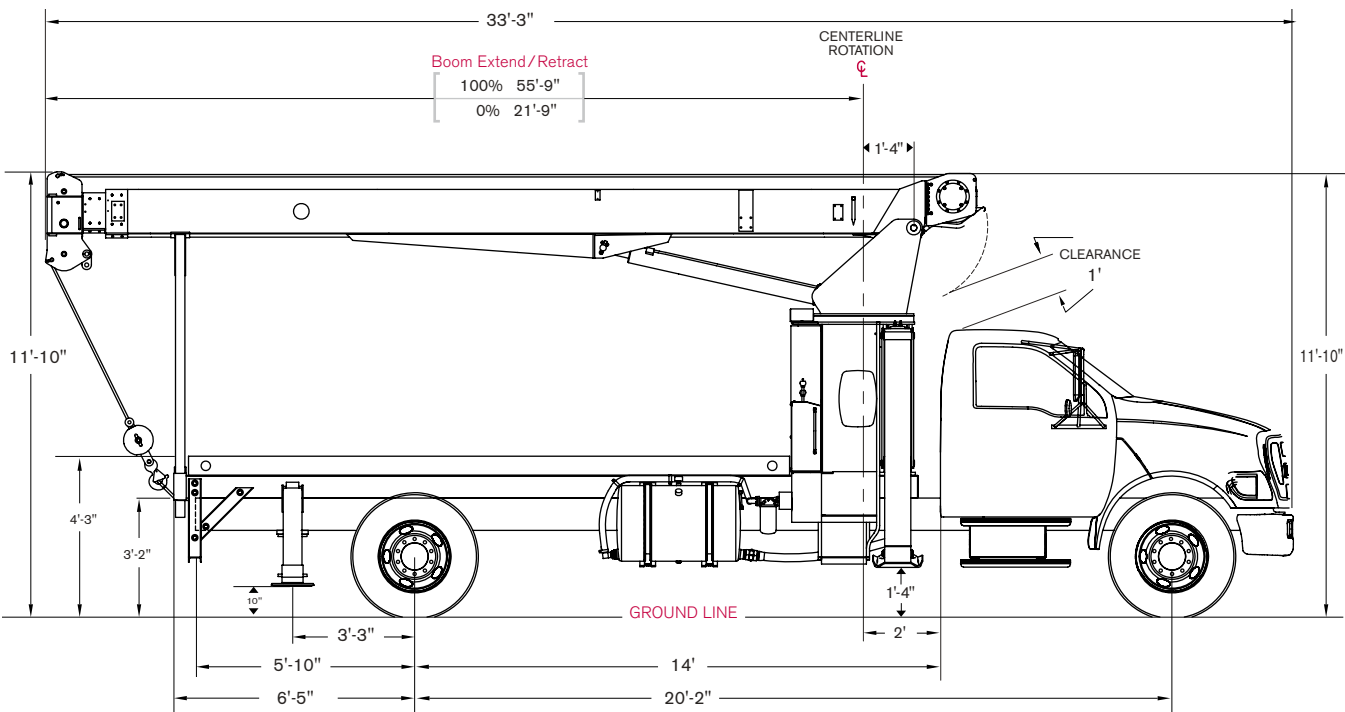
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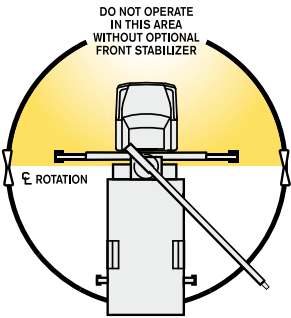
DIMENSIONS

BT 2057

Crane Dimensions



Area of Operation



Mounting Specifications

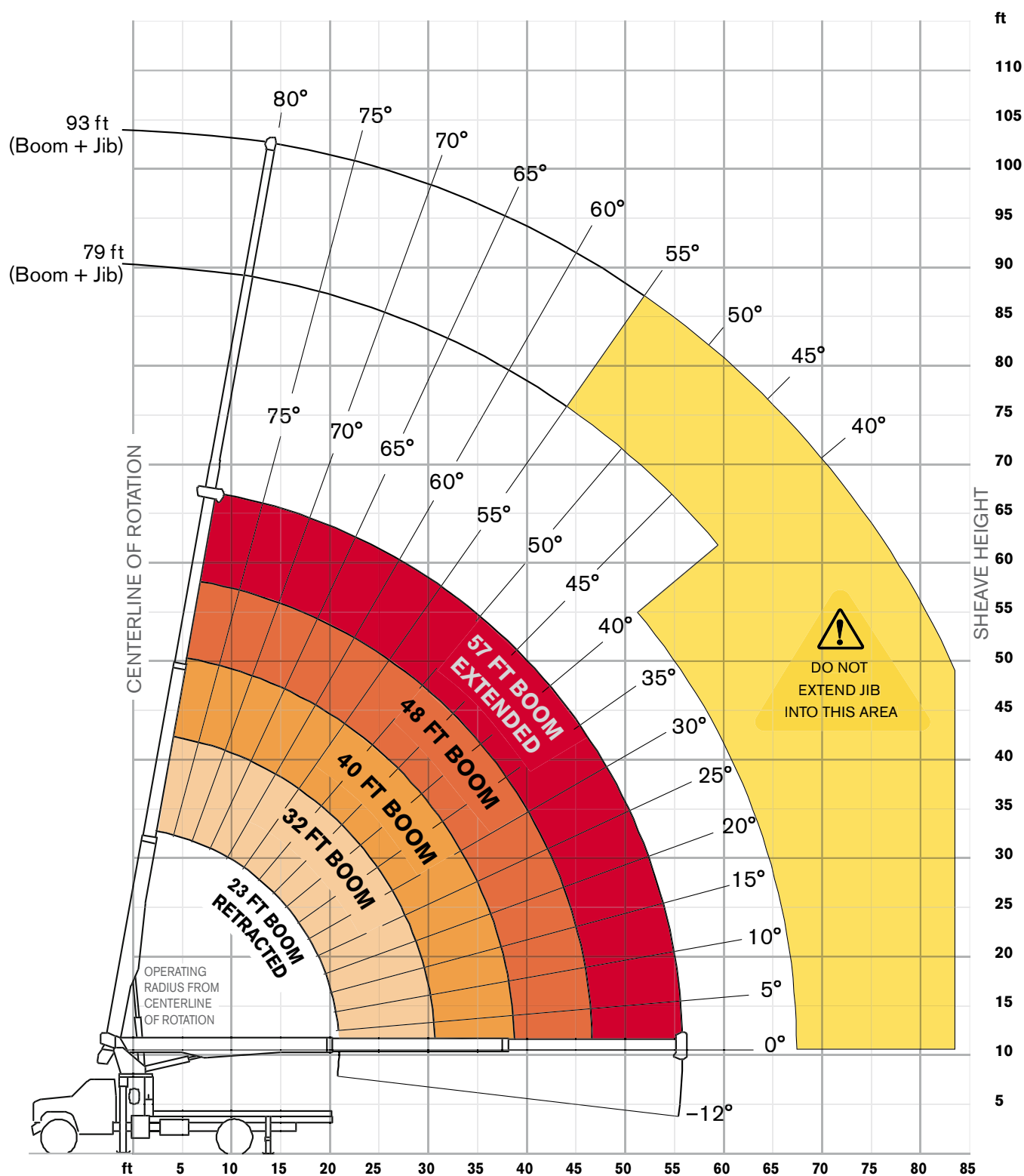
Chassis recommendation	
Gross vehicle weight rating	33,000 lb
Front axle weight rating	12,000 lb
Rear axle weight rating	21,000 lb
Crane weight	10,850 lb
Wheelbase	230 +/- 4 in
Cab to axle	156 +/- 4 in
Afterframe	80 +/- 4 in
RBM per framerail	1,200,000 lb/in



RANGE DIAGRAM

BT 2057

Outriggers Fully Extended (100%)



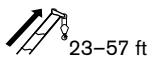
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BOOM LOAD CHARTS

BT 2057

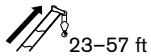
Outriggers Fully Extended (100%)



Standard ASME B30.5

 ft	Boom Length					 ft
	23 lb	32 lb	40 lb	48 lb	57 lb	
5	20,000					5
8	12,700	12,000	11,700			8
10	10,500	9,900	9,625	9,500		10
12	9,000	8,500	8,200	8,000	7,900	12
14	8,000	7,525	7,225	6,925	6,825	14
16	7,125	6,625	6,425	6,125	5,925	16
20	5,325	5,425	5,225	4,925	4,725	20
21	4,725	5,125	4,925	4,625	4,525	21
25		4,225	4,125	3,925	3,825	25
30		2,825	3,225	3,225	3,125	30
35			2,625	2,725	2,625	35
38			2,025	2,325	2,325	38
40				2,225	2,225	40
46				1,425	1,725	46
50					1,525	50
55					925	55

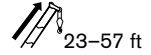
Boom at 0°



Standard ASME B30.5

 °	Boom Length					 °
	23 lb	32 lb	40 lb	48 lb	57 lb	
0	3,500	2,100	1,700	1,000	750	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
22	500	600	750	1,000	1,200	1,500	2,000	2,600	3,150	22
36	—	—	—	550	650	850	1,100	1,480	1,900	36

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.



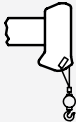
TECHNICAL DESCRIPTION

BT 2047 / BT 2057

Boom, Jib and Rotation

	Three-section full power fully synchronized telescopic keel boom	
	Boom length	BT 2047 47 ft BT 2057 57 ft
	Boom elevation angle range (min/max)	-8° / 82°
	Boom up/down time	16/10 seconds
	Boom extension /retraction time	BT 2047 39/30 seconds BT 2057 35/27 seconds
	Boom head	Quick reeving
	Maximum sheave height	BT 2047 With optional 18–30 ft jib: 91 ft 9 in BT 2057 With optional 22–36 ft jib: 101 ft 9 in
	180 degree non-continuous rotation or optional 360 degree continuous rotation	

Operator Controls and Operator Aid

	Hoist line pull	7,900 lb
	Rope diameter	1/2 in
	Breaking strength	27,000 lb
	Overhaul ball	6.25 t
	1 Sheave block	10 t
	2 Sheave block	15 t
	1 part line	7,600 lb
	2 part line	15,200 lb
	3 part line	22,800 lb

TECHNICAL DESCRIPTION

BT 2047 / BT 2057

	Fully proportional independent outrigger controls
	Electronic load indicator

Understructure

	Front: "A-frame" link type	
	To outer edge of pad	17 ft 10 in
	Rear: A-Frame	
	To outer edge of pad	10ft 2 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



BT 2047 / BT 2057



BT 2047 / BT 2057

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BT 2047 / BT 2057

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