

STINGER **28-106**



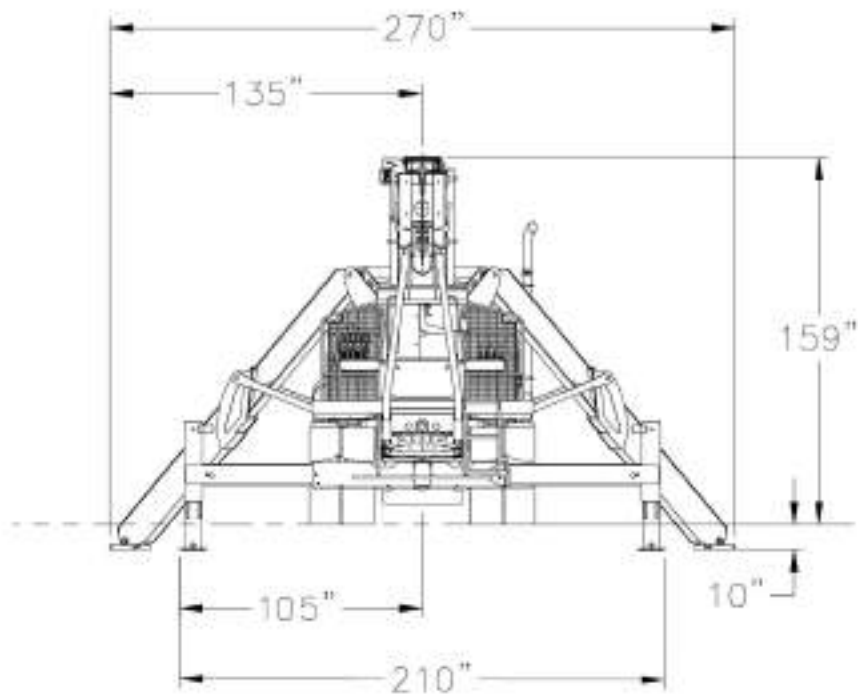
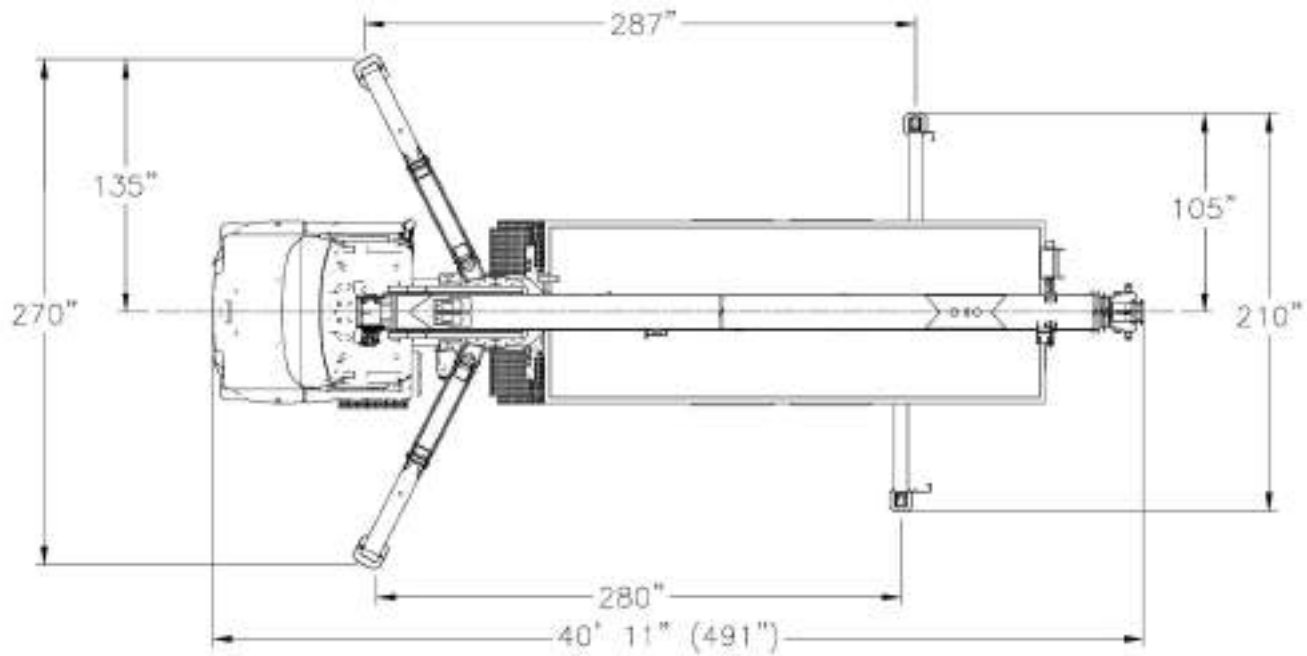
Features: STINGER 28-106

- 28 US t @ 6ft
- 106 ft maximum boom length
- 116 ft maximum tip height
- 30-47 ft optional jib
- 163 ft maximum tip height with 47 ft jib
- Electronic rated capacity indicator
- Quick reeving boom head
- K-pattern outriggers

DIMENSIONS

STINGER 28-106

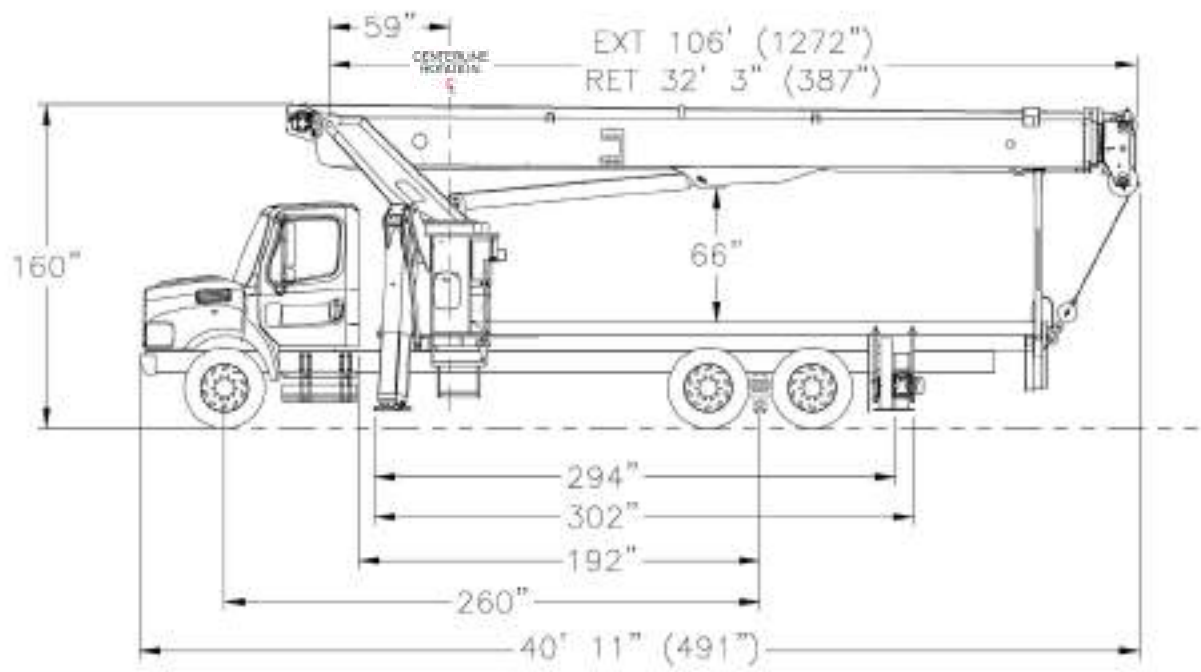
Crane Dimensions



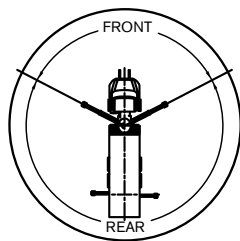
DIMENSIONS

STINGER 28-106

Example Layout Drawing



Area of Operation



Capacities are reduced over the front without the optional front stabilizer

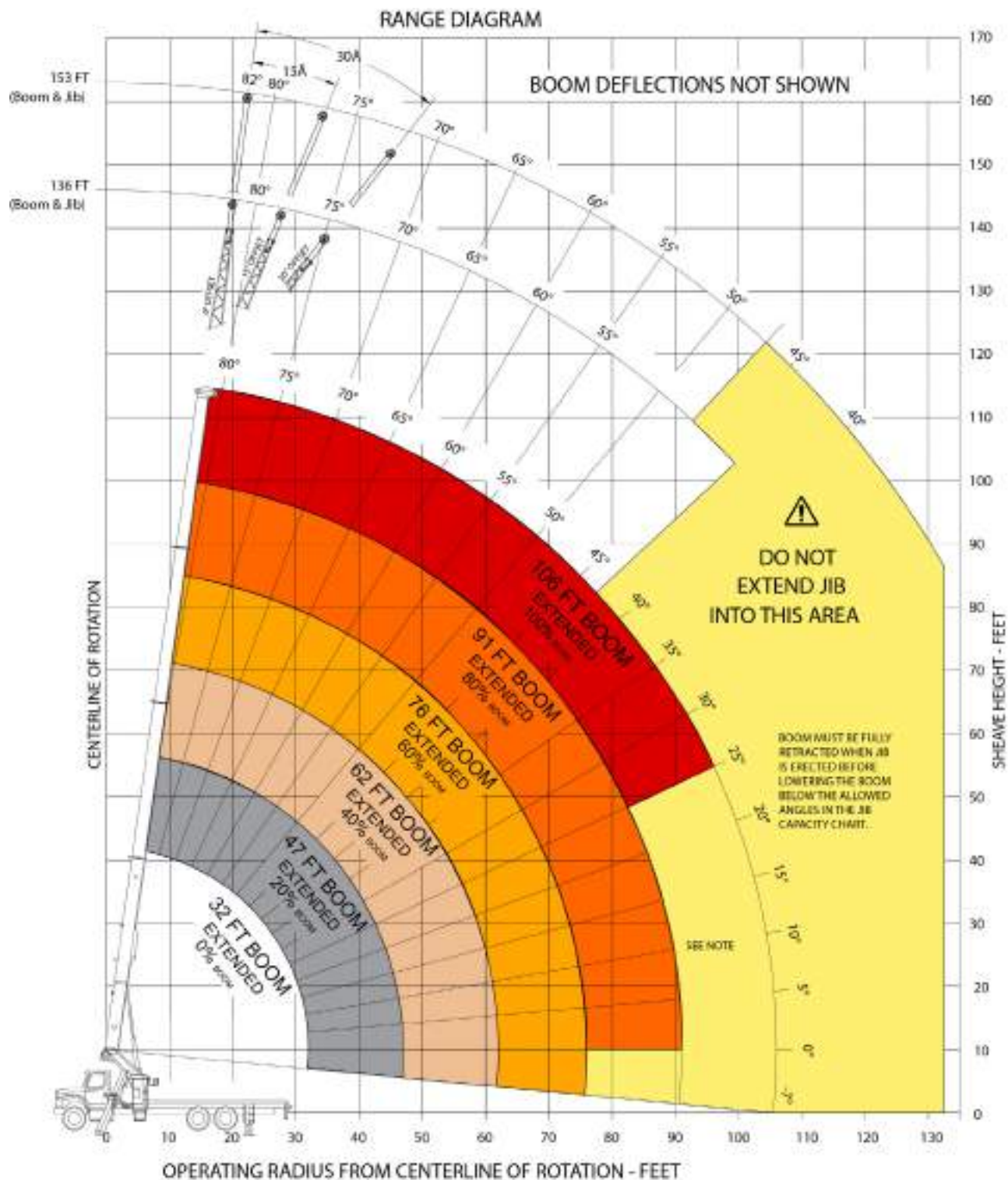
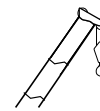
Mounting Specifications

Gross vehicle weight rating	52,000 lb
Front axle weight rating	18,000 lb
Rear axle weight rating	34,000 lb
Crane weight (Base Machine)	30,000 lb
Wheelbase	260 in
Cab to axle	192 in
Afterframe	114 in
RBM per framerail	3,300,000 lb-in
Frame Height (Unloaded)	40 in
Vertical Exhaust Height	110 in
Section Modulus	30.0in³

RANGE DIAGRAM

Outriggers Fully Extended

STINGER 28-106

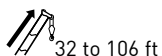
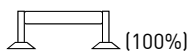


NOTE: HYDRAULIC PRESSURE WILL NOT RAISE FULLY EXTENDED BOOM IN THIS AREA

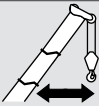
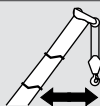
LOAD CHART

STINGER 28-106

Outriggers Fully Extended



Standard ASME B30.5

	Boom Length						
	32	47	62	76	91	106	
ft	lb	lb	lb	lb	lb	lb	ft
6	56,000						6
8	40,000	29,000					8
10	34,000	27,000	25,400				10
12	30,000	24,950	24,000				12
14	24,700	22,850	22,000	19,000	16,000		14
17	22,000	20,450	20,000	17,000	14,600		17
20	18,000	16,950	16,000	14,500	13,000	10,000	20
25	14,000	12,900	13,000	12,000	11,000	9,500	25
30		10,000	10,000	9,500	8,750	9,000	30
35		7,750	8,000	8,000	7,500	8,500	35
40		6,300	6,650	6,750	6,500	7,100	40
45			5,300	5,500	5,500	5,800	45
50			4,250	4,500	4,400	4,850	50
55			3,450	3,650	3,800	3,950	55
60				3,000	3,150	3,300	60
65				2,400	2,600	2,700	65
70				1,900	2,050	2,200	70
75					1,650	1,800	75
80					1,250	1,350	80
85					800	1,000	85
90						650	90
95						350	95

Notes to lifting capacity

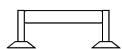
Lifting capacities do not exceed 85% of tipping load. Weight of hook blocks and slings are part of the load, and are to be deducted from the capacity ratings. Consult operation manual for further details.

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

STINGER 28-106

With Jib, Retracted



(100%)

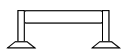


Over Rear

Standard ASME B30.5

30 ft Offsettable Jib							
0°		15°		30°			
ft	0	lbs	0	lbs	0	lbs	ft
30	80	5,000					30
35	78	5,000					35
40	75	5,000					40
45	72	4,800	81	4,800	82	4,000	45
50	70	4,500	79	4,800	79	4,000	50
55	68	3,800	74	4,200	77	4,000	55
60	65	3,100	72	3,700	75	3,600	60
65	63	2,450	70	3,300	72	3,200	65
70	60	1,800	67	2,650	70	2,800	70
75	58	1,350	65	2,000	67	2,350	75
80	55	900	62	1,600	64	1,900	80
85	51	575	59	1,200	60	1,500	85
90			56	800	57	1,150	90
95			52	400	54	800	95
100					51	550	100

With Jib, Extended



(100%)



Over Rear

Standard ASME B30.5

47 ft Offsettable Jib							
0°		15°		30°			
ft	0	lbs	0	lbs	0	lbs	ft
30	82	4,000					30
35	80	4,000					35
40	78	4,000					40
45	76	3,550					45
50	74	3,330					50
55	72	2,900	79	3,300			55
60	70	2,300	77	3,200			60
65	67	1,850	75	3,100	78	2,500	65
70	65	1,400	73	2,950	76	2,500	70
75	63	1,050	70	2,800	74	2,400	75
80	61	750	68	2,350	71	2,250	80
85	59	500	65	1,900	69	2,100	85
90			63	1,450	66	1,700	90
95			61	1,000	63	1,300	95
100			57	750	61	1,000	100
			55	500	58	700	

Notes to lifting capacity

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

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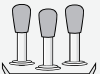
TECHNICAL DESCRIPTION

STINGER 28-106

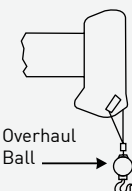
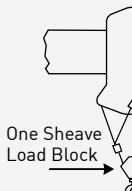
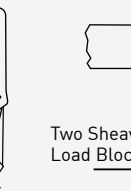
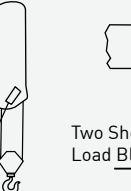
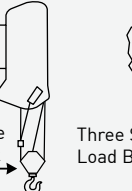
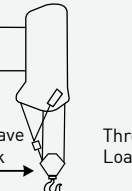
Boom, Jib and Rotation

	Four-section full power fully synchronized telescopic keel boom Boom elevation angle range (min/max) Boom up/down time Boom extension/retraction time	-7° / 82° 50/120 seconds 110/140 seconds
	Boom length	32–106 ft
	Boom maximum tip height	116 ft
	Boom head Top shaft: 1 sheave / lower shaft: 3 sheave	Quick reeving
	Tip height: Optional lattice jib 30–47 ft Angular offsets	163 ft 0°, 15°, 30°
	370° noncontinuous rotation or optional 360° continuous rotation	

Operator Controls, Operator Aids

	Hoist maximum line pull (First Layer)	11,100 lb
	Hoist line speed (Third Layer)	137/209 ft/min
	Rope diameter	9/16"
	Fully proportional	
	Electronic rated capacity indicator with work area definition Internal - two block wire	

Rope and Reeving

1 Part Line	2 Part Line	3 Part Line	4 Part Line	5 Part Line	6 Part Line	7 Part Line
						
Loads Up To: 10,000 lbs *7,400 lbs	Loads Up To: 20,000 lbs *14,800 lbs	Loads Up To: 30,000 lbs *22,200 lbs	Loads Up To: 40,000 lbs *29,600 lbs	Loads Up To: 50,000 lbs *37,000 lbs	Loads Up To: 56,000 lbs *44,400 lbs	Loads Up To: ----- *51,800 lbs

Hoist Rope

9/16 in XIPS, IWRC preformed right regular lay with 37,000 lb min breaking strength

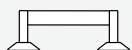
*9/16 in rotation resistant (per ASME 30.5 or ASTM A1023) with 37,000 lb min breaking strength



Overhaul ball
1 Sheave block
2 Sheave block
3 Sheave block

7 USt
15 USt
25 USt
30 USt

Outriggers



K-pattern

Front: K-pattern link-type A-frame
To outer edge of pad

22 ft 6 in

Rear: H type (out and down),
To outer edge of pad

17 ft 6 in

Optional Features

- 360° swing continuous rotation
- Two-stage jibs with offset capability 0°, 15°, 30°
- Rotation resistant rope
- Multi-part load blocks
- 22 ft Heavy duty wood and steel flatbeds
- Radio remote controls
- Two-man basket
- Hoist drum tensioner
- Oil cooler
- Single front bumper outrigger
- Tool box
- Inching control for hoist operation at rear of subframe, for one man hook ball stowage and deploy
- Bump throttle in lieu of foot pedal

STINGER 28-106

www.loadkingmfg.com

