



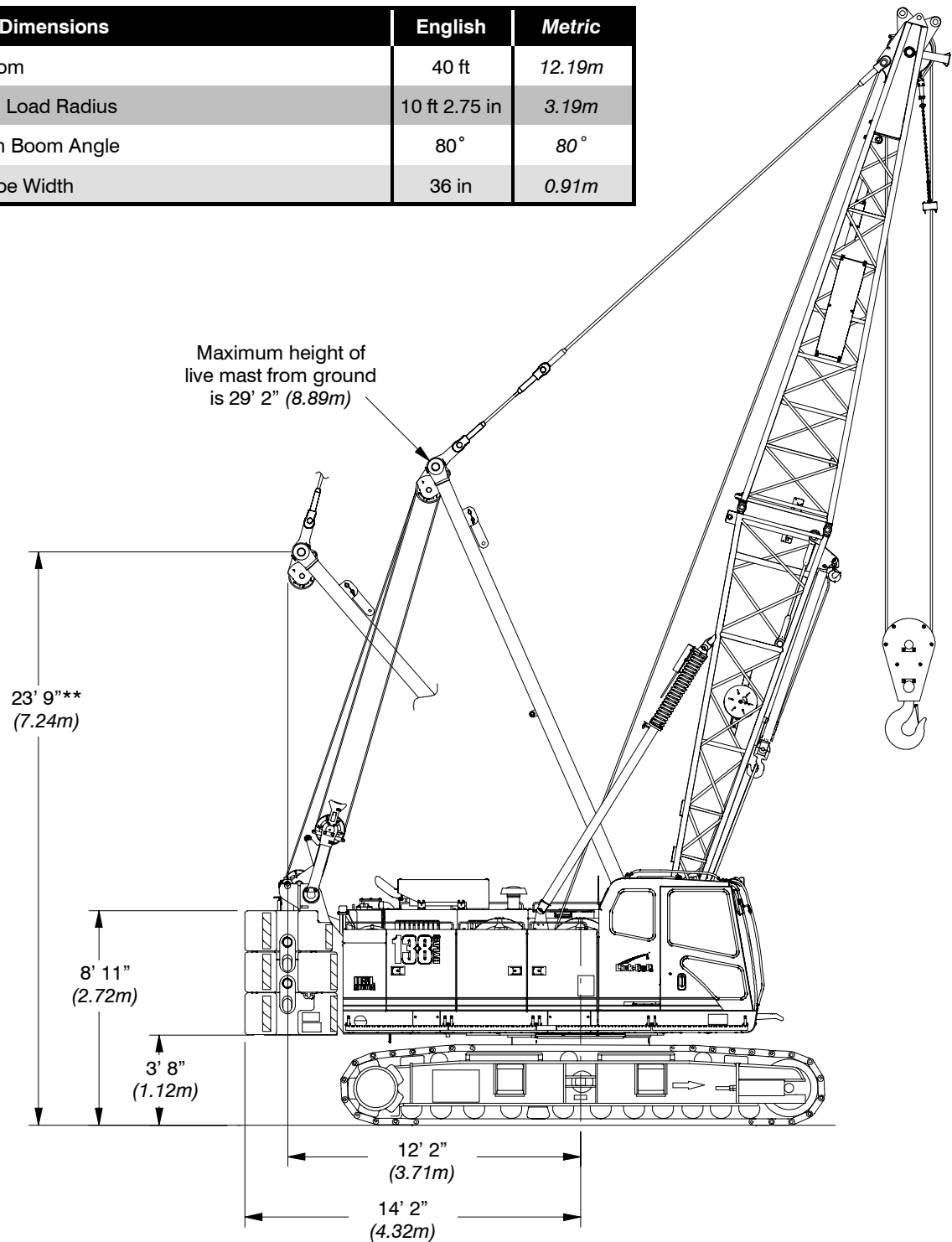
LIFTING CHARTS - Crawler Cranes

LINK-BELT MODEL LS-138H II - 80 TON CAPACITY

<u>COMPONENT WEIGHTS</u>		<u>LBS.</u>	<u>KGS.</u>	<u>BOOM 40' – 180'</u>	<u>LBS.</u>	<u>KGS.</u>
Complete Crane c/w 40', full cwt & block		144,361	65 482	Tubular 54" W x 44" H		
House, Carbody, Tracks & Boom Butt 37'6" x 13'10" x 11'		88,121	39 971	Boom Butt 20'	2,225	1 009
Tracks 20'2" x 36" x 39"	ea.	19,700	8 936	Boom 10' 1 pc.	677	307
Counterweights				Boom 20' 2 pcs. Ea.	1,076	488
A Cwt 10'6" x 46" x 6'7"		23,305	10 571	Boom 30' 3 pcs. Ea.	1,481	672
B Cwt 10'6" x 46" x 23"		16,943	7 685	Boom Tip 20' c/w Adapter	2,700	1 225
C Cwt 10'6" x 44" x 26"		12,071	5 475			
Total Counterweights		52,319	23 732			
<u>ADDITIONAL INFORMATION</u>				<u>FIXED JIB 30' – 60'</u>		
80 Ton 4 Sheave Block		1,221	554	Tubular 35" W x 27" H		
15 Ton Ball		767	348	Butt 15' c/w Mast	1,106	502
				Insert 15' 2 pcs. Ea.	330	150
				Tip 15'	604	274

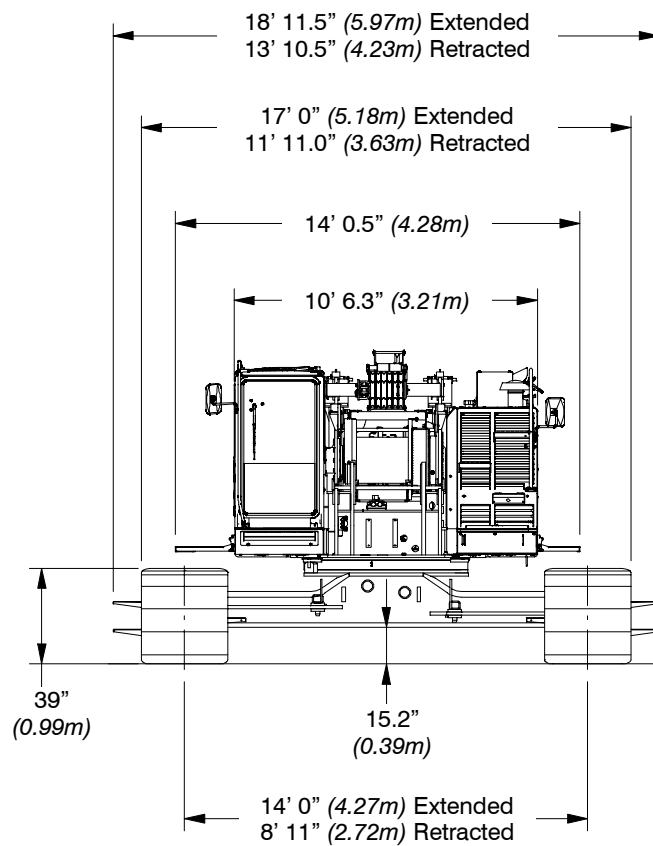
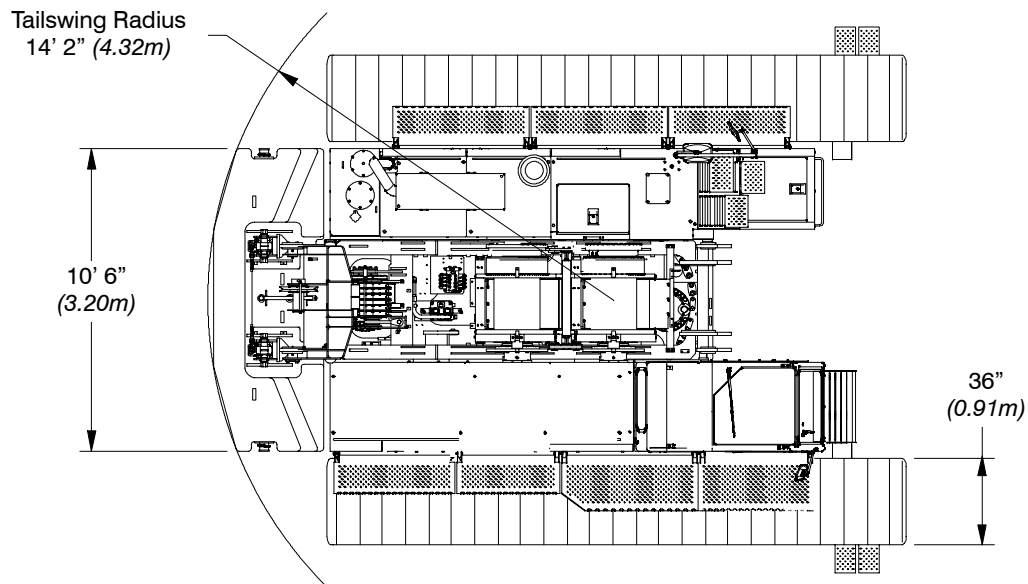
Dimensions

General Dimensions	English	Metric
Basic Boom	40 ft	12.19m
Minimum Load Radius	10 ft 2.75 in	3.19m
Maximum Boom Angle	80°	80°
Track Shoe Width	36 in	0.91m



Note: **@ Maximum boom angle (80°) with maximum boom [200 ft (60.96m)], maximum rotation radius occurs.

Dimensions

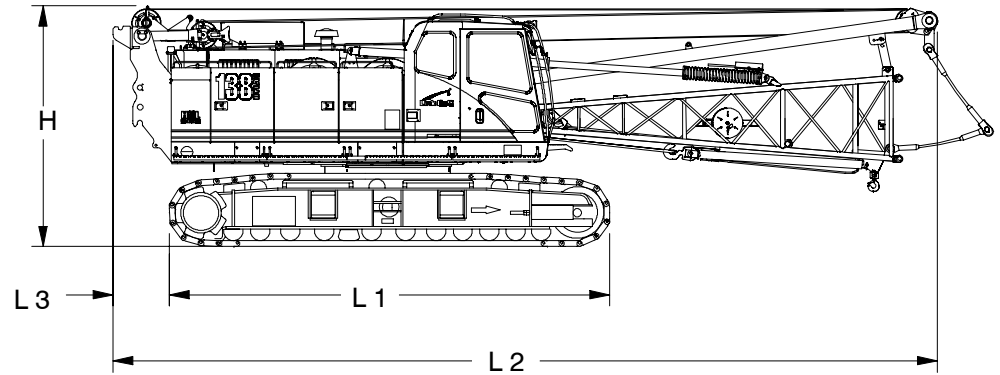


STERLING CRANE

Base Crane

Base Crane ①

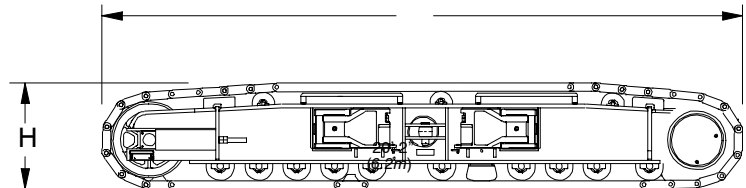
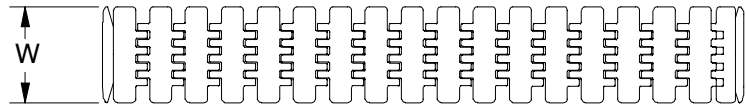
Length 1	20 ft 2 in	(6.15m)
Length 2	37 ft 6 in	(11.43m)
Length 3	2 ft 6 in	(0.76m)
Height	11 ft 0 in	(3.35m)
Weight:		
Tube Boom	88,121 lb	(39 971kg)
Angle Boom	89,946 lb	(40 799kg)



Side Frames

Side Frames ②

Length	20 ft 2 in	(6.15m)
Width	36 in	(0.91m)
Height	39 in	(0.99m)
Weight	19,700 lb	(8 936kg)

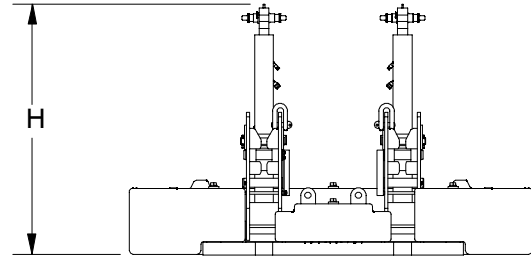
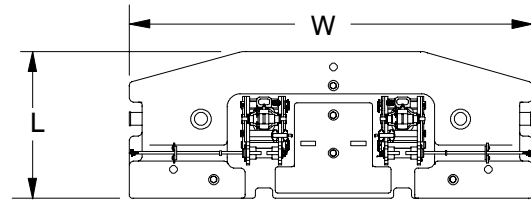


Number inside black circle “①” = # of components

Upper Counterweights

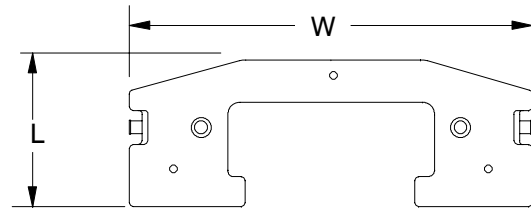
“A” Slab Counterweight ①

Length	46 in	(1.17m)
Width	10 ft 6 in	(3.20m)
Height	6 ft 6.25 in	(1.99m)
Weight	23,305 lb	(10 571kg)



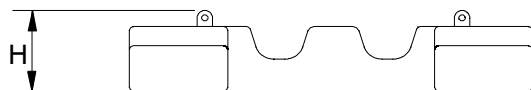
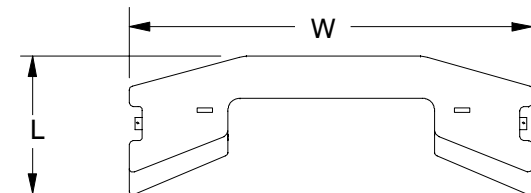
“B” Slab Counterweight ①

Length	46 in	(1.17m)
Width	10 ft 6 in	(3.20m)
Height	23 in	(0.58m)
Weight	16,943 lb	(7 685kg)



“C” Slab Counterweight ①

Length	43.50 in	(1.10m)
Width	10 ft 6 in	(3.20m)
Height	25.50 in	(0.65m)
Weight	12,071 lb	(5 475kg)



Number inside black circle “①” = # of components

STERLING CRANE

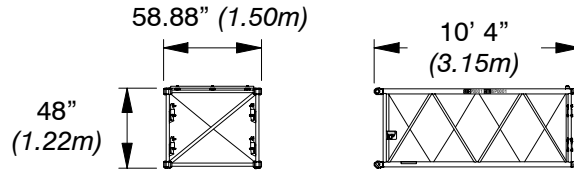
Boom

54 in (1.37m) x 44 in (1.12m)

Tube Boom Extensions

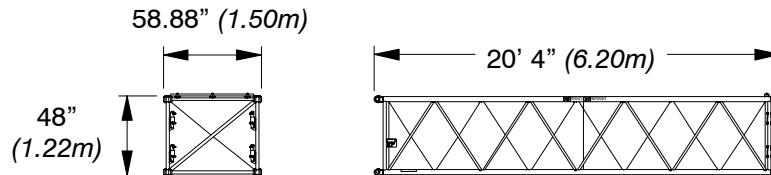
10 ft (3.05m) Extension

Weight: 522 lb (237kg)



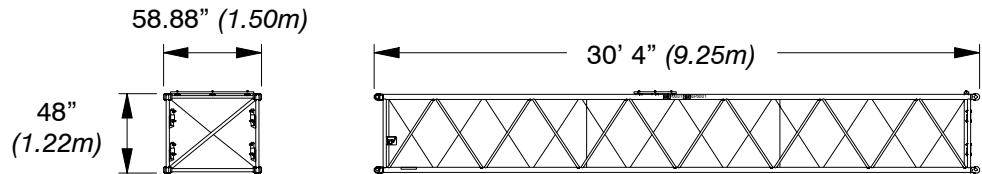
20 ft (6.10m) Extension

Weight: 863 lb (391kg)



30 ft (9.14m) Extension

Weight: 1,193 lb (541kg)

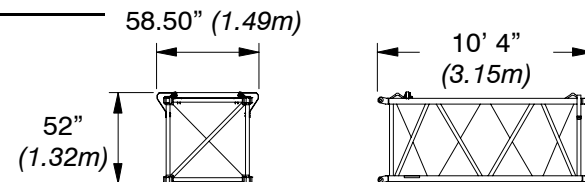


45.7 in (1.16m) x 45.7 in (1.16m)

Angle Boom Extensions

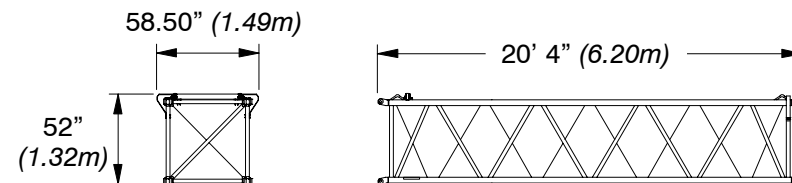
10 ft (3.05m) Extension

Weight: 845 lb (383kg)



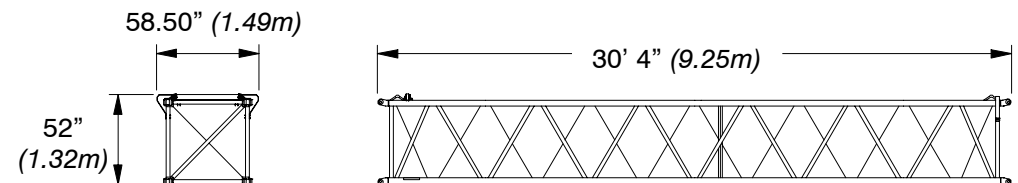
20 ft (6.10m) Extension

Weight: 1,358 lb (616kg)



30 ft (9.14m) Extension

Weight: 1,955 lb (887kg)

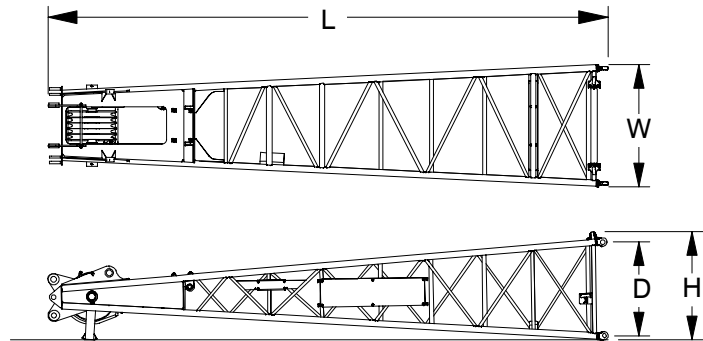


STERLING CRANE

20 ft (6.10m) Tube Boom

Top Section ①

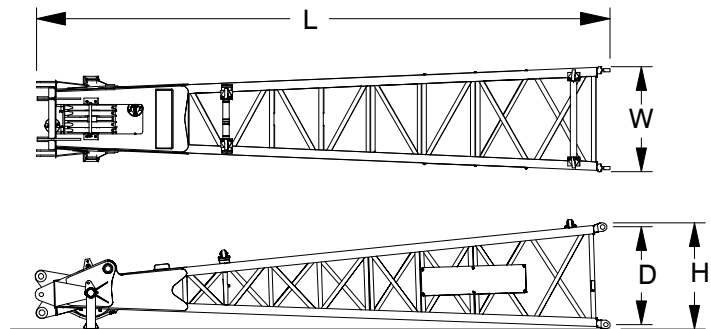
Length	21 ft 11 in	(6.68m)
Width	57.13 in	(1.45m)
Deep	44 in	(1.12m)
Height	51 in	(1.30m)
Weight	2,350 lb	(1 066kg)



20 ft (6.10m) Angle Boom

Top Section ①

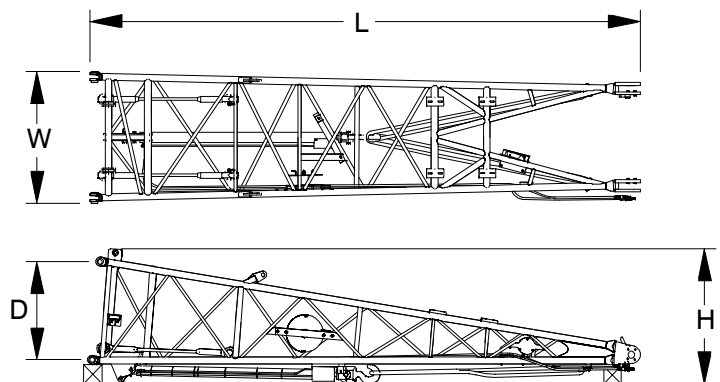
Length	22 ft 5 in	(6.83m)
Width	49.06 in	(1.25m)
Deep	45.7 in	(1.16m)
Height	50 in	(1.27m)
Weight	2,937 lb	(1 332kg)



20 ft (6.10m) Tube Boom

Base Section ①

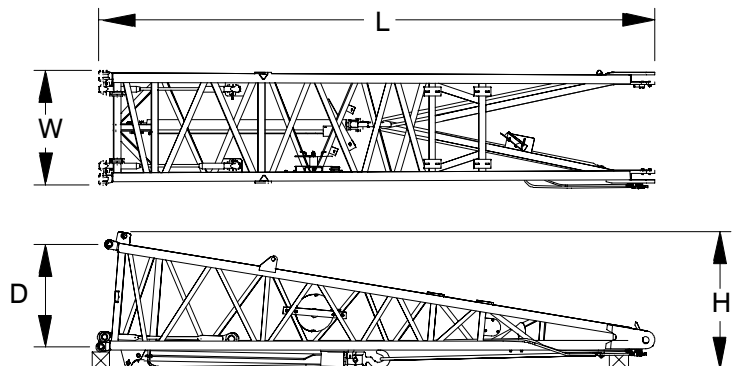
Length	20 ft 6 in	(6.25m)
Width	58.87 in	(1.50m)
Deep	44 in	(1.12m)
Height	61 in	(1.55m)
Weight		
w/o Quick Draw	1,701 lb	(772kg)
w/ Quick Draw	2,211 lb	(1 003kg)



20 ft (6.10m) Angle Boom

Base Section ①

Length	20 ft 6 in	(6.25m)
Width	50.60 in	(1.29m)
Deep	45.7 in	(1.16m)
Height	61 in	(1.55m)
Weight		
w/o Quick Draw	2,454 lb	(1 113kg)
w/ Quick Draw	2,912 lb	(1 321kg)



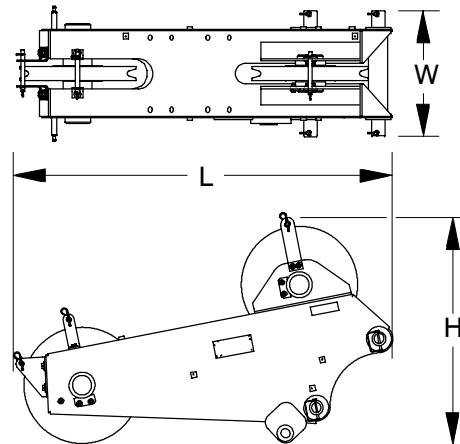
Number inside black circle "①" = # of components

* – Optional equipment

STERLING CRANE

Auxiliary Tip Extension* ①

Length	70.35 in	(1.79m)
Width	24.50 in	(0.62m)
Height	42.91 in	(1.09m)
Weight	720 lb	(327kg)



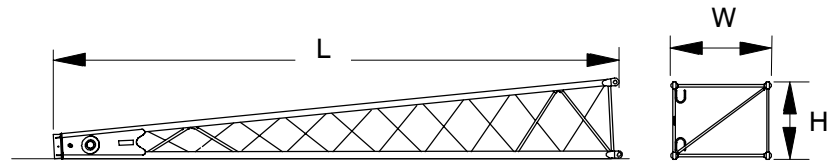
Jib

15 ft (4.57m) Jib

Top Section* ①

Length	16 ft 1.50 in	(4.91m)
Width	34.50 in	(0.88m)
Height	26.50 in	(0.67m)
Weight†	604 lb	(274kg)

† Weight includes pendants and hardware.

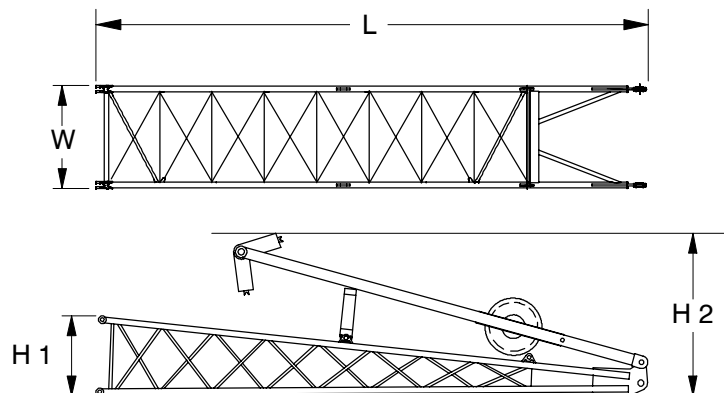


15 ft (4.57m) Jib

Base Section* ①

Length	15 ft 3.50 in	(4.66m)
Width	34.50 in	(0.88m)
Height 1	26.50 in	(0.67m)
Height 2	54.50 in	(1.38m)
Weight†	1,106 lb	(502kg)

† Weight includes pins, basic frontstay & backstay pendants, and hardware.

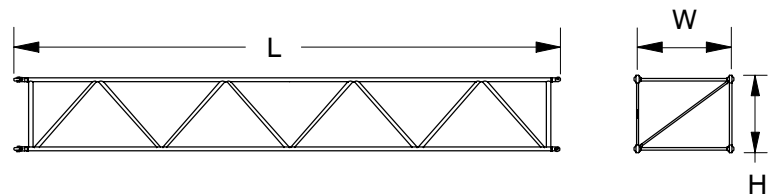


15 ft (4.57m) Jib

Extension* ①

Length	15 ft 2.50 in	(4.64m)
Width	34.50 in	(0.88m)
Height	26.50 in	(0.67m)
Weight†	330 lb	(150kg)

† Weights includes pins, pendants, and hardware.



Number inside black circle “①” = # of components

* – Optional equipment

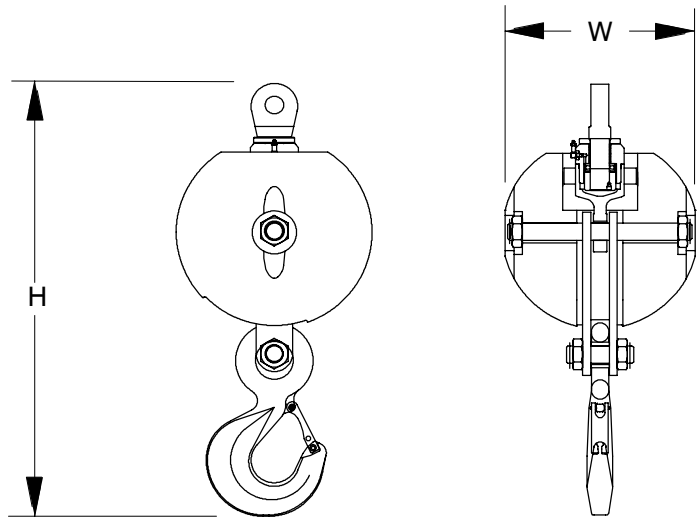
STERLING CRANE

Hook Balls

15 Ton (13.6mt) Swivel

Hook Ball* ①

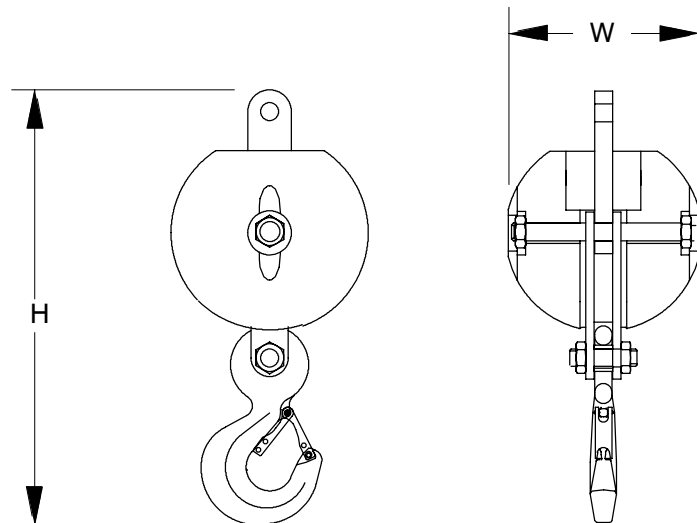
Width	17.50 in	(0.44m)
Height	40.50 in	(1.03m)
Weight	767 lb	(348kg)



15 Ton (13.6mt) Non-Swivel

Hook Ball* ①

Width	18 in	(0.46m)
Height	39.50 in	(1.00m)
Weight	748 lb	(339kg)



Number inside black circle “①” = # of components

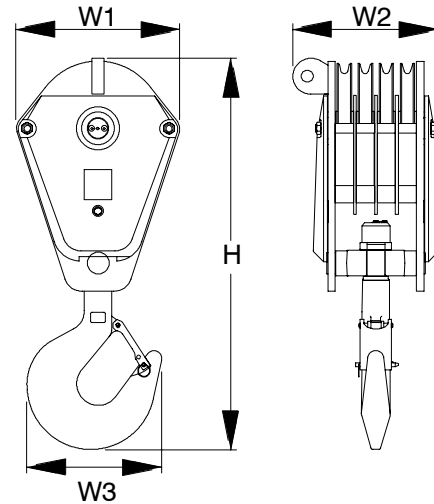
* – Optional equipment

Hook Blocks

50 Ton (45.4mt)

4–Sheave Hook Block* ①

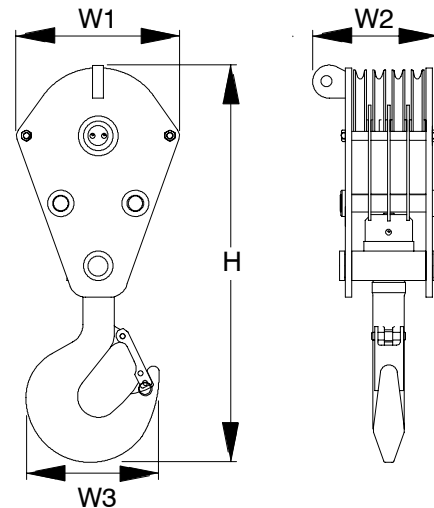
Width1	22.75 in	(0.58m)
Width2	20.25 in	(0.51m)
Width3	18.75 in	(0.48m)
Height	54.00 in	(1.37m)
Weight	1,221 lb	(554kg)



80 Ton (72.6mt)

4–Sheave Hook Block* ①

Width1	24.75 in	(0.63m)
Width2	18.25 in	(0.46m)
Width3	20.25 in	(0.51m)
Height	60.00 in	(1.52m)
Weight	1,221 lb	(554kg)



Number inside black circle “①” = # of components

* – Optional equipment

Working Weights

Based on basic crane including Isuzu AH–6HK1X diesel engine, turntable bearing, live mast, 14 part boom hoist reeving, backstops, crawler lower with 36 in (0.91m) wide track shoes, sealed track rollers, and catwalks, plus the following:		Cwt “A”	Cwt “AB”	Cwt “ABC”
		lb (kg)	lb (kg)	lb (kg)
Lifting crane – includes 40 ft (12.19m) basic tubular boom, quickdraw cylinder, 700 ft (213.36m) of 16mm type “DB” front hoist rope, 700 ft (213.36m) of 16mm type “DB” rear hoist rope, 80 Ton (72.6mt) hook block, and basic pendants.		116,388 (52 793)	133,332 (60 478)	145,403 (65 954)
Ground Bearing Pressure	psi			
	kg/cm ²			

Transport Weights

Base Crane: Rigid Boom Backstops, 27 gal (102.2L) Of Fuel, Side Frames, Catwalks, 20' (6.10m) Tube Base Section, 24' (7.32m) Live Mast with Bridle & Spreader Bar, 14–Part Boom Hoist Reeving, 700' (213.36m) Type "DB" Front Hoist Rope, and 700' (213.36m) Type "DB" Rear Hoist Rope.

Item Description	Gross Weight		Transport Loads		
	lb	kg	#1	#2	#3
Base Crane	88,121	39 971	1		
Add "A" Counterweight	23,305	10 571			1
Add "B" Counterweight	16,943	7 685		1	
Add "C" Counterweight	12,071	5 475		1	
Add Hydraulic Third Drum Without Rope	1,345	610			
Add 20' (6.10m) Tube Top Section	2,700	1 225		1	
Add 10' (3.05m) Tube Extension With Pins And Pendants	677	307			1
Add 20' (6.10m) Tube Extension With Pins And Pendants	1,076	488		1	2
Add 30' (9.14m) Tube Extension With Pins and Pendants	1,481	672		2	1
Add 20' (6.10m) Angle Base Section	2,912	1 321			
Add 20' (6.10m) Angle Top Section With 4 Lifting Sheaves	3,500	1 588			
Add 20' (6.10m) Angle Top Section With 3 Lifting Sheaves	3,400	1 542			
Add 20' (6.10m) Angle Top Section With 2 Lifting Sheaves	3,300	1 497			
Add 10' (3.05m) Angle Extension With Pins And Pendants	992	450			
Add 20' (6.10m) Angle Extension With Pins And Pendants	1,625	737			
Add 30' (9.14m) Angle Extension With Pins and Pendants	2,264	1 027			
Add Tagline Winder	760	345			
Add 30' (9.14m) Tube Jib	1,710	775			1
Add 15' (4.57m) Tube Jib Extension	330	150			2
Add 5' (1.52m) Auxiliary Tip Extension	735	333			
Add Holding Rope – 7/8 in X 165' (50.29m) Type "DB"	234	106			
Add Closing Rope – 7/8 in X 220' (67.06m) Type "DB"	312	142			
Add Inhaul Rope – 7/8 in X 105' (32.00m) Type "M"	141	64			
Add Hoist Rope – 7/8 in X 210' (64.01m) Type "LB"	298	135			
Add Jib Wire Rope – 7/8 in X 700' (213.36m) Type "DB"	994	451			
Add 3rd Drum Wire Rope – 16mm X 385' (117.35m) Type "ZB"	312	142			
Add 3rd Drum Wire Rope – 16mm X 385' (117.35m) Type "WB"	296	134			
Add 15–ton (13.6mt) Hook Ball – Non Swivel	750	340		1	
Add 15–ton (13.6mt) Hook Ball – Swivel	767	348			
Add 50–ton (45.3mt) 4 Sheave Hook Block	1,221	554			
Add 80–ton (72.6mt) 4 Sheave Hook Block	1,221	554		1	
Add Quick Draw	510	231			
Remove 20' (6.10m) Tube Base Section	–1,988	–902			
Remove Front Hoist Rope – 7/8 in X 700' (213.36m) Type "DB"	–944	–428			
Remove Jib Wire Rope – 7/8 in X 540' (164.59m) Type "RB"	–1,050	–476			
Remove 22' (6.71m) Live Mast with Bridle & Spreader	–2,356	–1 069			
Remove 50 gal (190L) Of Fuel	362	164			
Approximate Total Shipping Weight	lb		88,121	37,723	29,932
	kg		39 971	17 111	13 578

Notes:

Estimated weights vary by $\pm$ 2%. Numbers in the transport loads columns represent quantities.

Estimated transport loads assume the load out consist of 200' (60.96m) of tube boom and 60' (18.29m) of jib with full counterweight.

Support loads were targeted at 45,000 lb (20 412kg), 8' 6" (2.6m) wide, 48' (14.6m) long, and 13' 6" (4.1m) high using a drop deck trailer. This may vary depending on state laws, empty truck/trailer weights, and style of trailer.

Transport Drawings – Tube Boom

