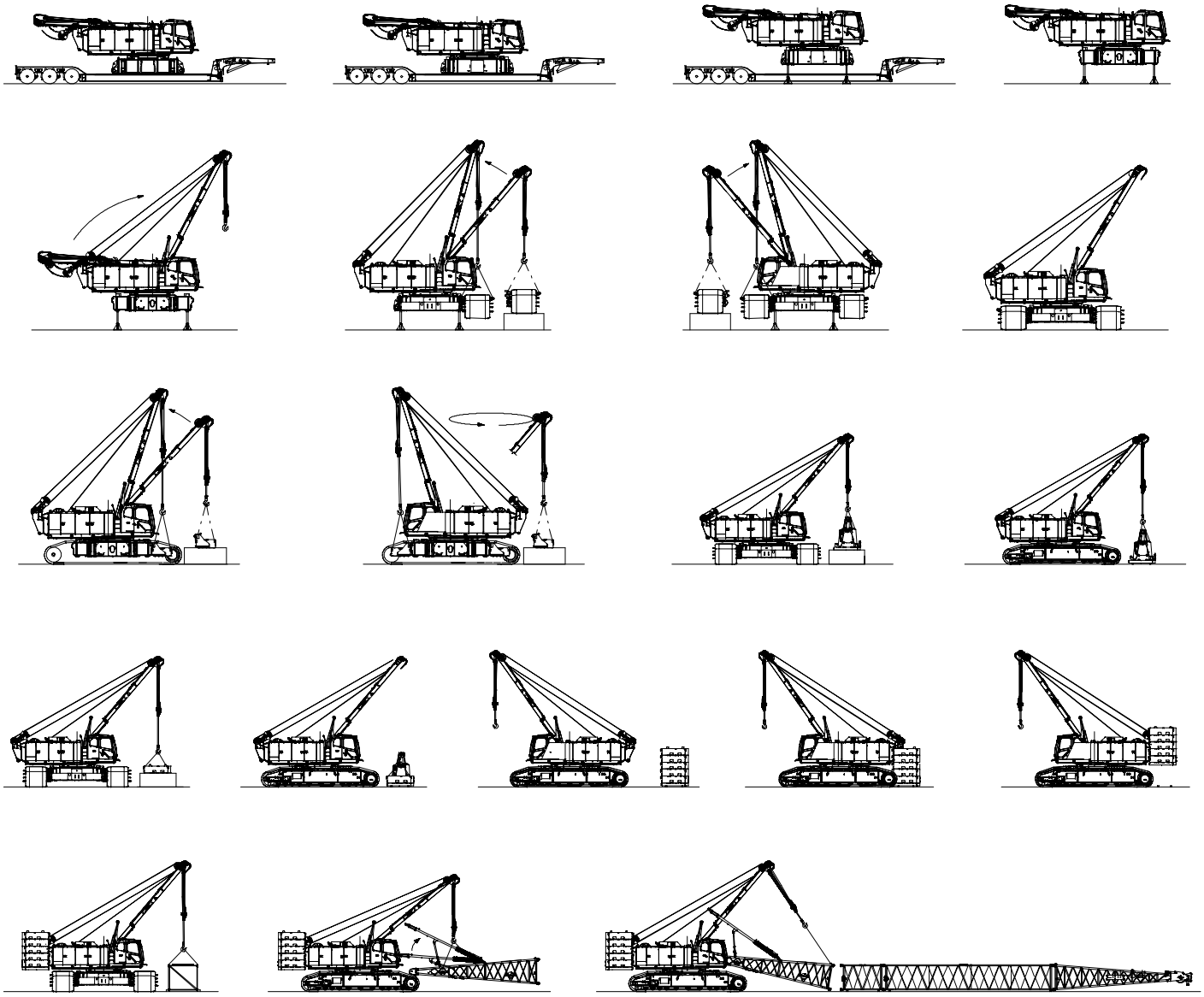
Assembly Diagram



Working Weights

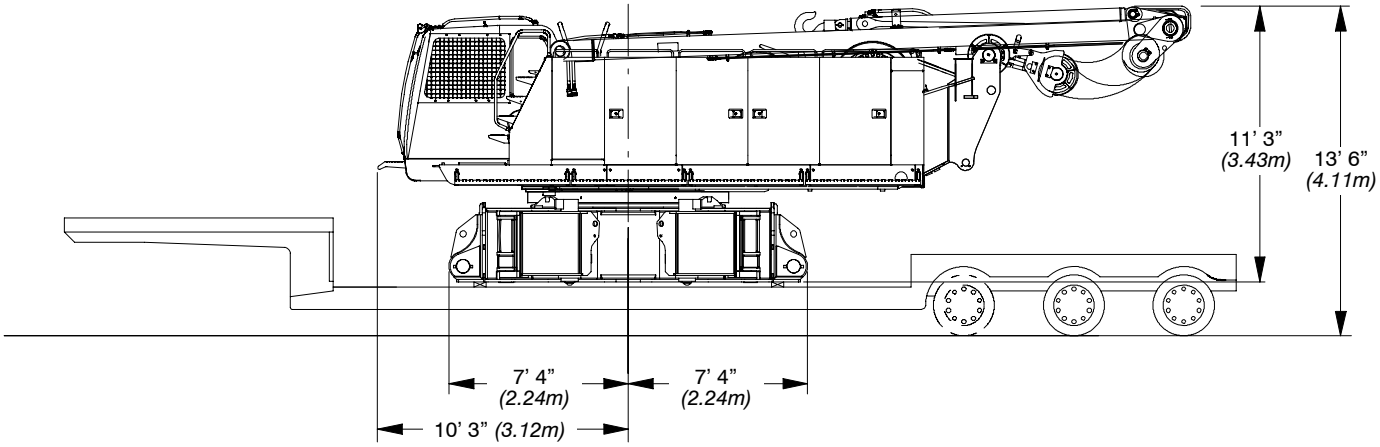
Based on basic crane including **Mitsubishi 6M70 – TL** diesel engine, turntable bearing, live mast, 12 part boom hoist reeving, backstops, counterweight, crawler lower with 48 in *(0.91m)* wide track shoes, sealed track rollers, and catwalks, plus the following:		**Ctwt" AB+A"**	**Ctwt "ABC+A"**	**Ctwt "ABCDE" + "A"**
		lb (*kg*)	lb (*kg*)	lb (*kg*)
Lifting crane – includes 60 ft *(18.29m)* basic boom, quick draw cylinder, 1,350 ft *(411.48m)* of type ZB main hoist rope, 975 ft *(297.18m)* of type ZB auxiliary hoist rope, 250 ton *(226.8mt)* hook block, and basic pendants.		315,532 *(143 125)*	340,377 *(154 395)*	390,069 *(176 935)*
Ground Bearing Pressure	psi	9.8	10.6	12.2
	kg/cm²	*0.69*	*0.75*	*0.86*

Transport Weights

Base Crane:

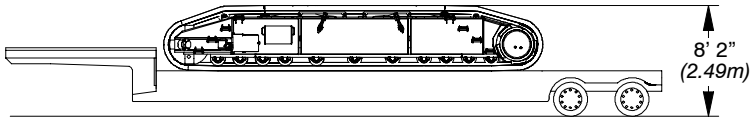
Item Description	Gross Weight		Transport Loads											
	lb	*(kg)*	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12
Base crane	87,052	*39 487*	1											
Add Side Frame w/ 48” Shoes – Two required	41,490	*18 820*		1	1									
Add Base Ctwt	36,000	*16 330*										1		
Add Ctwt Biscuit (Left) – Five required	12,800	*5 806*						1	1	2	1			
Add Ctwt Biscuit (Right) – Five required	12,000	*5 443*						1	1	1	2			
Add Lower Ctwt – Two Required	30,000	*13 608*				1	1							
Add 30 ft *(9.14m)* Base Section w/ Backstops & Boom Foot Pins	7,447	*3 378*						1						
Add 10 ft *(3.05m)* Extension w/ Pendants	1,730	*785*				1								
Add 20 ft *(6.10m)* Extension w/ Pendants	2,305	*1 046*									1			
Add 30 ft *(9.14m)* Extension w/ Pendants – Three required	3,612	*1 638*									1		1	1
Add 40 ft *(12.19m)* Extension w/ Pendants – Three required	4,596	*2 085*				1	1			1				
Add 30 ft *(9.14m)* Top Section	5,213	*2 365*							1					
Add 15 ft *(4.58m)* Jib Base & Strut	1,702	*772*										1		
Add 20 ft *(6.10m)* Jib Extension w/ Pendants & Pins – Three required	582	*264*										1	2	
Add 15 ft *(4.6m)* Jib Peak Section	790	*358*										1		
Add 250 Ton *(226.75mt)* Hook Block	5,721	*2 595*							1					
Add 20 Ton *(18.14mt)* Hook Ball w/o Swivel	1,211	*549*							1					
Approximate Total Shipping Weight	**lb**		**87,052**	**41,490**	**41,490**	**36,326**	**34,596**	**32,247**	**36,989**	**42,196**	**42,717**	**39,074**	**4,776**	**3,612**
	kg		***39 487***	***18 820***	***18 820***	***16 477***	***15 693***	***14 627***	***16 778***	***19 140***	***19 376***	***17 724***	***2 166***	***1 638***

Transport Drawings



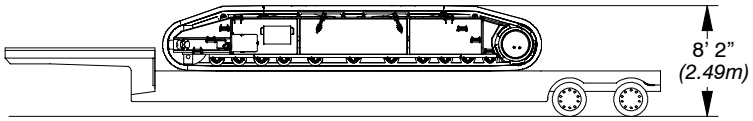
LOAD #1 – 87,052 lb *(39 487kg)*

Base crane



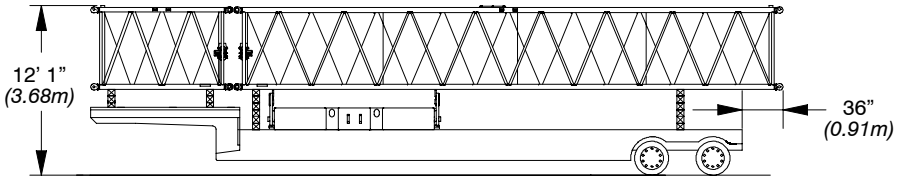
LOAD #2 – 41,490 lb *(18 820kg)*

Side frame w/ 48” shoes



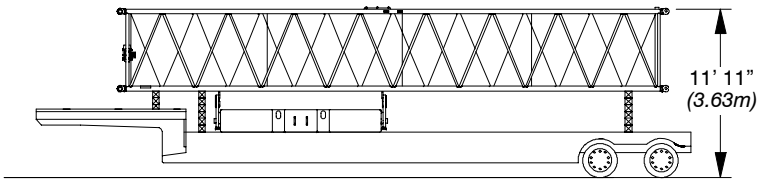
LOAD #3 – 41,490 lb *(18 820kg)*

Side frame w/ 48” shoes



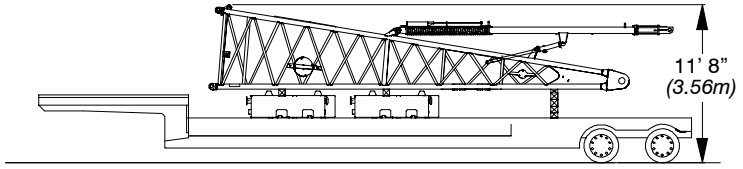
LOAD #4 – 36,326 lb *(16 477kg)*

Lower counterweight, 40 ft *(12.19m)* boom extension,
and 10 ft *(3.05m)* boom extension



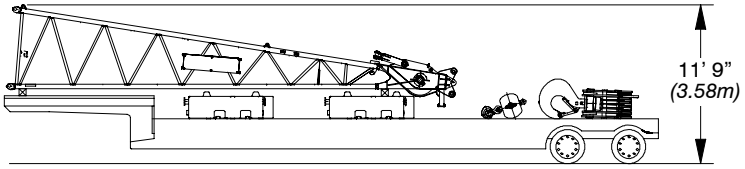
LOAD #5 – 34,596 lb *(15 693kg)*

Lower counterweight and 40 ft *(12.19m)* boom extension



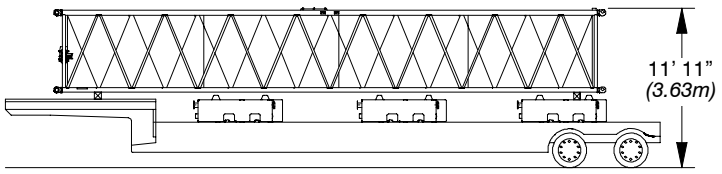
LOAD #6 – 32,247 lb *(14 627kg)*

30 ft *(9.14m)* base section with backstops and boom foot pins, one 12,800 lb *(5 806kg)* counterweight, and one 12,000 lb *(5 443kg)* counterweight



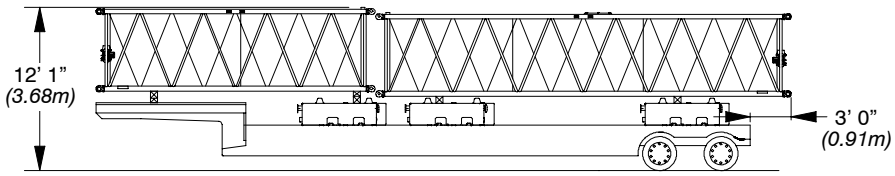
LOAD #7 – 36,989 lb *(16 778kg)*

30 ft *(9.14m)* top section, one 12,800 lb *(5 806kg)* counterweight, one 12,000 lb *(5 443kg)* counterweight, 20 ton *(18.14mt)* hook ball, and 250 ton *(226.75mt)* hook block



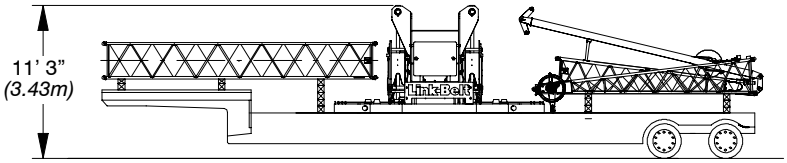
LOAD #8 – 42,196 lb *(19 140kg)*

Two 12,800 lb *(5 806kg)* counterweights, one 12,000 lb *(5 443kg)* counterweight, and 40 ft *(12.19m)* boom extension



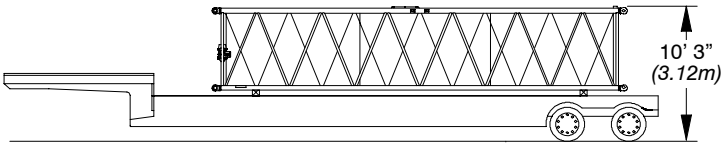
LOAD #9 – 42,717 lb *(19 376kg)*

One 12,800 lb *(5 806kg)* counterweight, two 12,000 lb *(5 443kg)* counterweights, 20 ft *(6.10m)* boom extension, and 30 ft *(9.14m)* boom extension



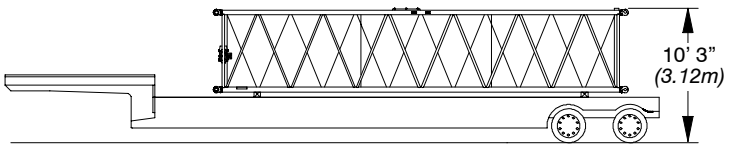
LOAD #10 – 39,074 lb *(17 724kg)*

36,000 lb *(16 330kg)* base counterweight, 20 ft *(6.10m)* jib extension, 15 ft *(4.57m)* jib base and strut, and 15 ft *(4.57m)* jib peak



LOAD #11 – 4,776 lb *(2 166kg)*

30 ft *(9.14m)* boom extension and two 20 ft *(6.10m)* jib extensions



LOAD #12 – 3,612 lb *(1 638kg)*

30 ft *(9.14m)* boom extension

Load Hoist Performance

Front & Rear Drums – 28mm Wire Rope

Rope Layer	Maximum Line Pull		No Load Line Speed		Full Load Line Speed		Pitch Diameter		Layer		Total	
	lb	*kg*	ft/min	*m/min*	ft/min	*m/min*	in	*mm*	ft	*m*	ft	*m*
1	59,234	*26 869*	383.7	*116.9*	191.8	*58.5*	24.6	*624.0*	192.9	*58.8*	192.9	*58.8*
2	54,356	*24 656*	413.0	*125.9*	206.5	*62.9*	26.4	*671.7*	278.5	*84.9*	400.6	*122.1*
3	50,220	*22 780*	442.3	*134.8*	221.1	*67.4*	28.3	*719.3*	222.5	*67.8*	623.1	*189.9*
4	46,669	*21 169*	471.6	*143.7*	235.8	*71.9*	30.2	*767.0*	237.1	*72.3*	860.2	*262.2*
5	43,587	*19 771*	500.9	*152.7*	250.4	*76.3*	32.1	*814.6*	251.9	*76.8*	1,112.1	*339.0*
6	40,887	*18 546*	530.2	*161.6*	265.1	*80.8*	33.9	*862.3*	266.7	*81.3*	1,378.8	*420.2*
7	38,502	*17 465*	559.5	*170.5*	279.7	*85.3*	35.8	*910.0*	281.3	*85.7*	1,660.1	*506.0*

Boom Hoist Drums – 22mm Wire Rope

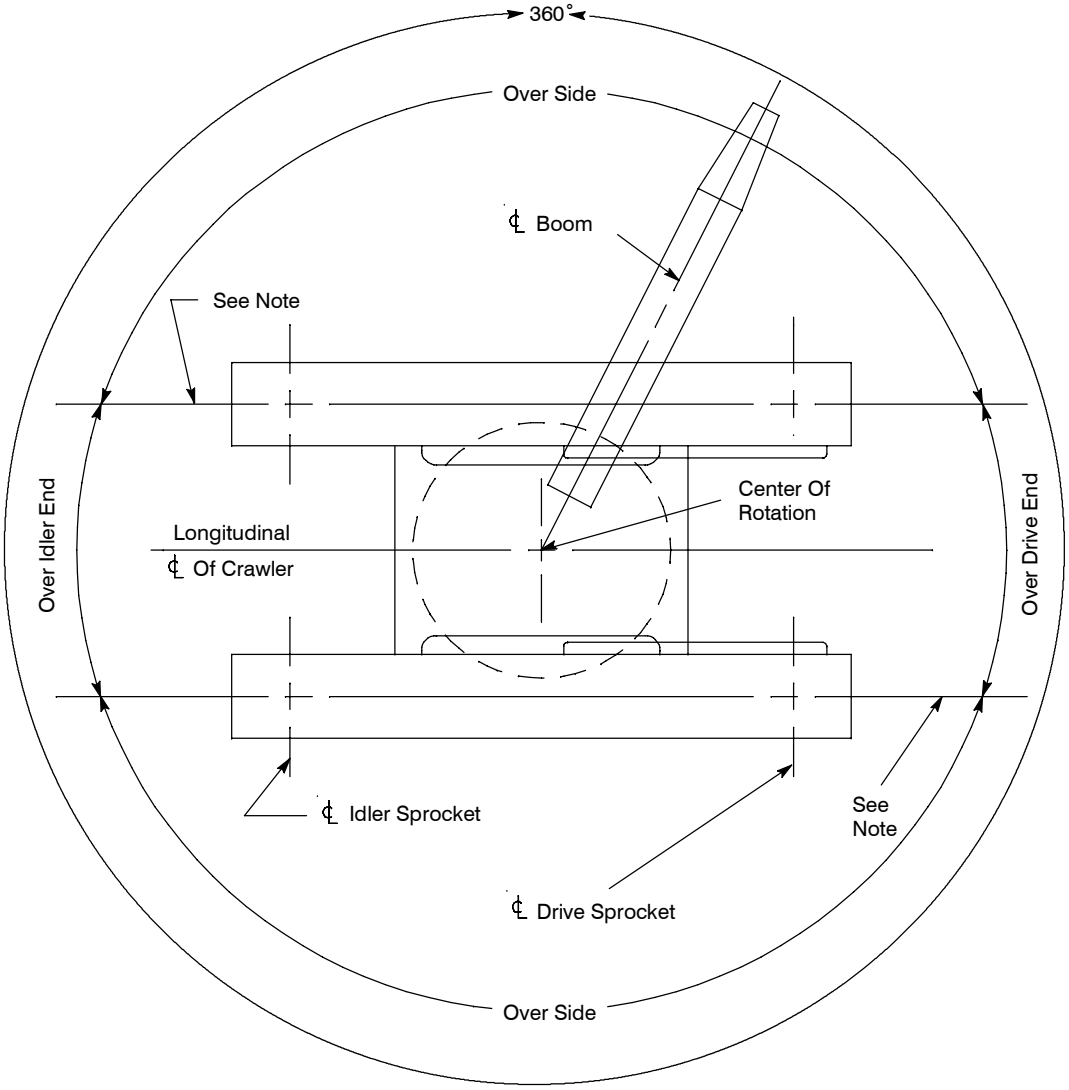
Rope Layer	Maximum Line Pull		No Load Line Speed		Full Load Line Speed		Pitch Diameter		Layer		Total	
	lb	*kg*	ft/min	*m/min*	ft/min	*m/min*	in	*mm*	ft	*m*	ft	*m*
1	103,657	*47 019*	99.9	*30.4*	54.8	*16.7*	26.1	*663.0*	150.3	*45.8*	150.3	*45.8*
2	97,096	*44 043*	105.6	*32.2*	57.9	*17.7*	27.6	*701.1*	159.0	*48.5*	309.3	*94.3*
3	91,316	*41 421*	111.3	*33.9*	61.1	*18.6*	29.1	*739.3*	167.7	*51.1*	477.0	*145.4*
4	86,186	*39 094*	117.1	*35.7*	64.2	*19.6*	30.6	*777.4*	176.2	*53.7*	653.2	*199.1*
5	81,601	*37 014*	122.8	*37.4*	67.4	*20.5*	32.1	*815.6*	185.0	*56.4*	838.2	*255.5*
6	77,480	*35 145*	128.6	*39.2*	70.5	*21.5*	33.6	*853.7*	193.6	*59.0*	1,031.8	*314.5*
7	73,755	*33 455*	134.3	*40.9*	73.7	*22.5*	35.1	*891.9*	202.2	*61.6*	1,234.0	*376.1*

Third Hoist Drum – 1.0 in *(25.4mm)* Wire Rope

Rope Layer	Maximum Line Pull		No Load Line Speed		Full Load Line Speed		Pitch Diameter		Layer		Total	
	lb	*kg*	ft/min	*m/min*	ft/min	*m/min*	in	*mm*	ft	*m*	ft	*m*
1	29,090	*13 195*	271	*82.6*	230	*70.1*	21	*533.4*	131	*39.9*	131	*39.9*
2	26,560	*12 048*	297	*90.5*	251	*76.5*	23	*584.2*	143	*43.6*	274	*83.5*
3	24,440	*11 086*	322	*98.1*	273	*83.2*	25	*635.0*	156	*47.5*	430	*131.1*
4	22,630	*10 265*	348	*106.1*	295	*89.9*	27	*685.8*	168	*51.2*	598	*182.3*
5	21,070	*9 557*	374	*114.0*	317	*96.6*	29	*736.6*	181	*55.2*	779	*237.4*
6	– – –	– – –	– – –	– – –	– – –	– – –	– – –	– – –	193	*58.8*	972	*296.3*

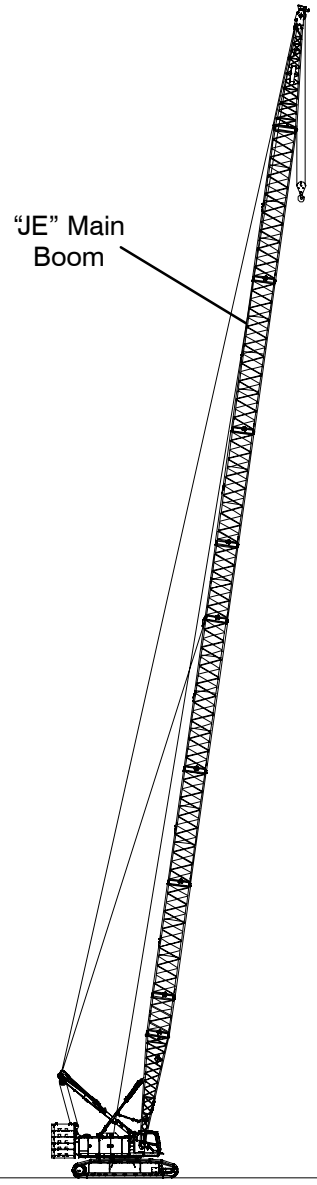
Wire Rope Application	Diameter		Type	Max. Permissible Load		Wire Rope Descriptions
	in	*mm*		lb	*kg*	
Front Hoist	– –	*28*	ZB	33,900	*15 377*	4 strand, low torque, right regular lay
Rear Hoist	– –	*28*	ZB	33,900	*15 377*	4 strand, low torque, right regular lay
Boom Hoist	– –	*22*	LB	25,000	*11 340*	6 x 25 (6 x19 Class) – Filler Wire – Preformed – I.W.R.C – Right Lay – Regular Lay Compacted Strands
Third Drum	1.0	*25.4*	RB	22,760	*10 324*	18 x 19 Rotation Resistant Compacted Strand – High Strength – Preformed, Right Regular Lay

Working Areas

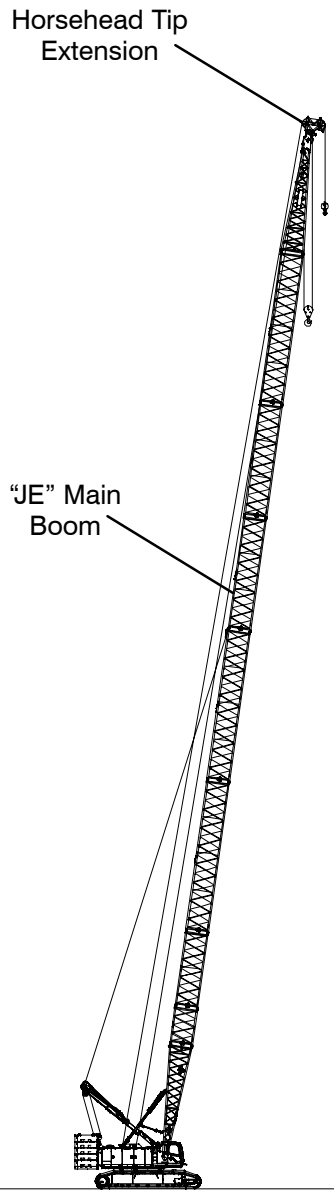


Note: These Lines Determine The Limiting Position Of Any Load For Operation Within Working Areas Indicated.

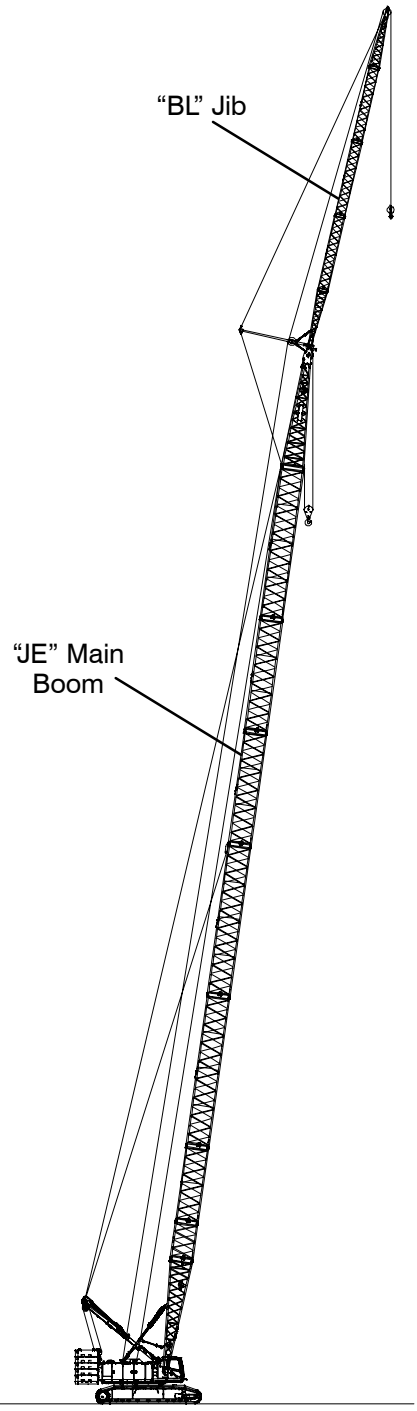
Attachments



**60 – 300 ft (*18.29 – 91.44m*)
Main Boom**



**60 – 270 ft (*18.29 – 82.30m*)
Main Boom With Horsehead
Tip Extension**



**60 – 270 ft (*18.29 – 82.30m*)
Main Boom With 30 – 90 ft
(*9.14 – 27.43m*) Jib**

Main Boom Make–up

Boom Length ft *(m)*	Boom Extensions ft *(m)*			
	10 *(3.05)*	20 *(6.14)*	30 *(9.10)*	40 *(12.19)*
60 *(18.29)*				
70 *(21.34)*	1			
80 *(24.38)*		1		
90 *(27.43)*	1		1	
100 *(30.48)*	1			1
110 *(33.53)*	1			1
120 *(36.58)*	1	1	1	
130 *(39.62)*	1	1		1
140 *(42.67)*	1		1	1
150 *(45.72)*	1			2
160 *(48.77)*	1	1	1	1
170 *(51.82)*	1	1		2
180 *(54.86)*	1		1	2
190 *(57.91)*	1			3
200 *(60.96)*	1	1	1	2
210 *(64.01)*	1	1		3
220 *(67.06)*	1		1	3
230 *(70.10)*	1	1	2	2
240 *(73.15)*	1	1	1	3
250 *(76.20)*	1		2	3
260 *(79.25)*		1	2	3
270 *(82.30)*			3	3
280 *(85.34)*	1		3	3
290 *(88.39)*		1	3	3
300 *(91.44)*	1	1	3	3

Notes:

1. Capacities shown are in kips/metric tons (1 kip = 1,000 lb / 1 metric ton = 0.45 kips) and are not more than 75% of the tipping loads with the crane standing level on firm supporting surface. A deduction must be made from these capacities for weight of hook block, hook ball, sling, grapple, load weighing device, etc. When using main hook while jib or tip extension is attached, reduce capacities by values shown in Crane Rating Manual. See Operator's Manual for all limitations when raising or lowering attachment.
2. The capacities in the shaded areas are based on structural strength. The capacities in the non–shaded areas are based on stability ratings.
3. For recommended reeving, parts of line, wire rope type, and wire rope inspection, see Wire Rope Capacity Chart, Operator's Manual, and Parts Manual.
4. Load ratings are based on freely suspended loads and make no allowances for such factors as the effect of the wind, ground conditions, and operating speeds. The operator shall therefore reduce load ratings in order to take these conditions into account. Refer to the Crane Rating Manual for Wind Speed Restrictions.
5. The 25 ft *(7.62m)* live mast must be used for all capacities listed.
6. The least stable rated condition is over the side.
7. Booms must be erected and lowered over the end for maximum stability.
8. Main boom length must not exceed 300 ft *(91.44m)*.
9. Do not operate at radii and boom lengths where the Crane Rating Manual lists no capacity. Do not use longer booms or jibs than those listed in the Crane Rating Manual. Any of the above can cause a tipping condition, or boom and jib failure.
10. These capacities are in compliance with ASME/ANSI B30.5 at date of manufacture.
11. These capacities apply only to the crane as originally manufactured and normally equipped by Link-Belt Construction Equipment Company.