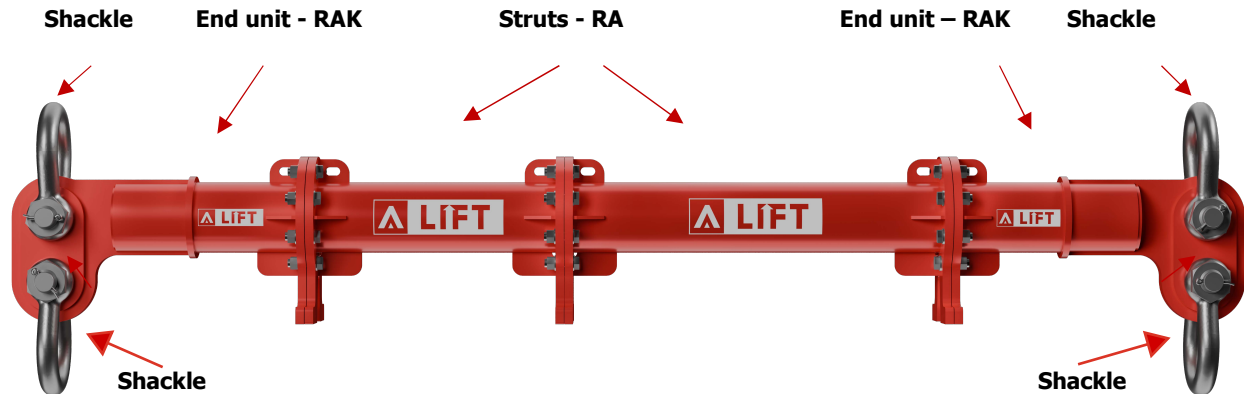


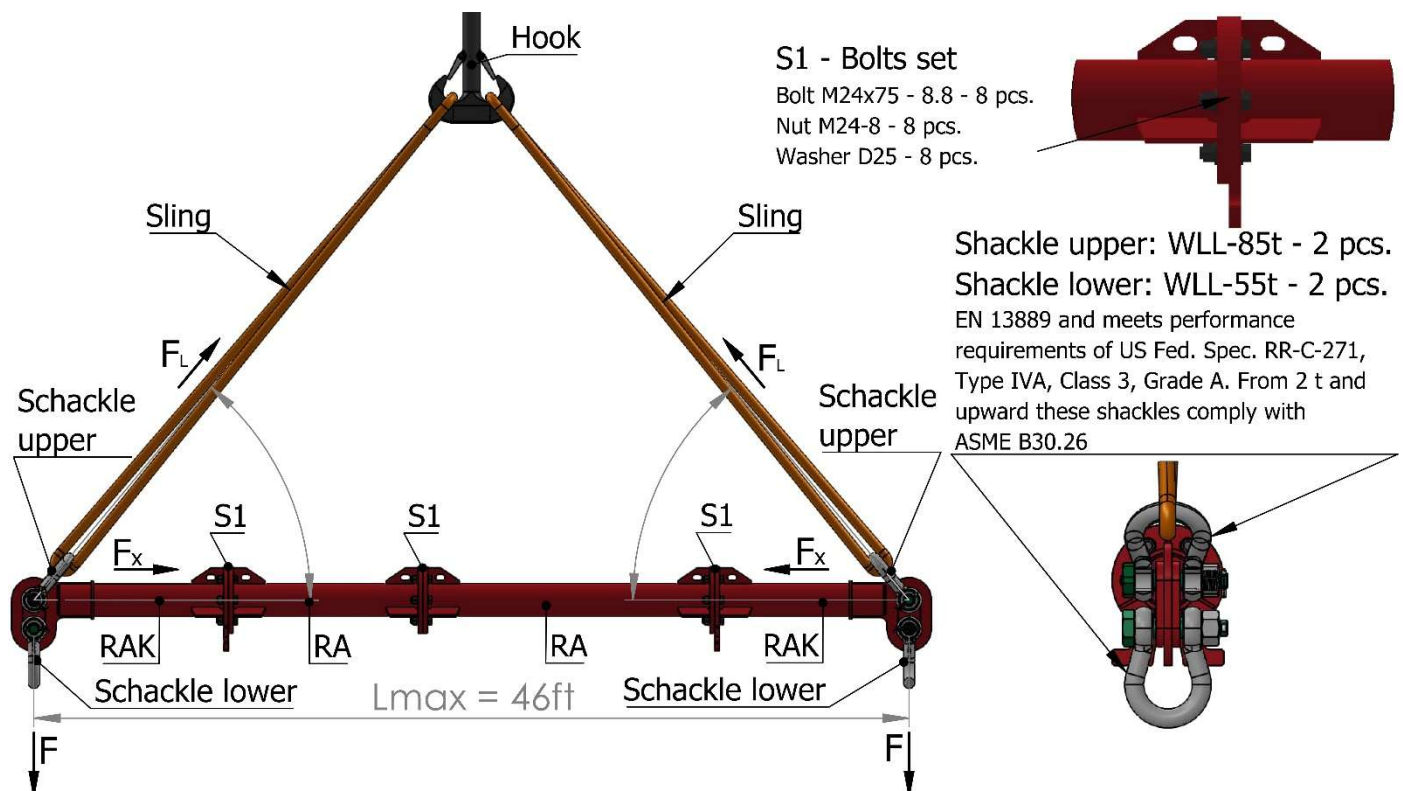
The spreader beam is designed for lifting and transporting equipment and cargo weighing up to 110t. It is adjustable in 1-foot increments within a range of 6 to 46 feet (L=6ft to L=46ft), as specified in the manual. The spreader beam is intended for use exclusively with lifting units equipped with appropriate chain or wire rope slings.



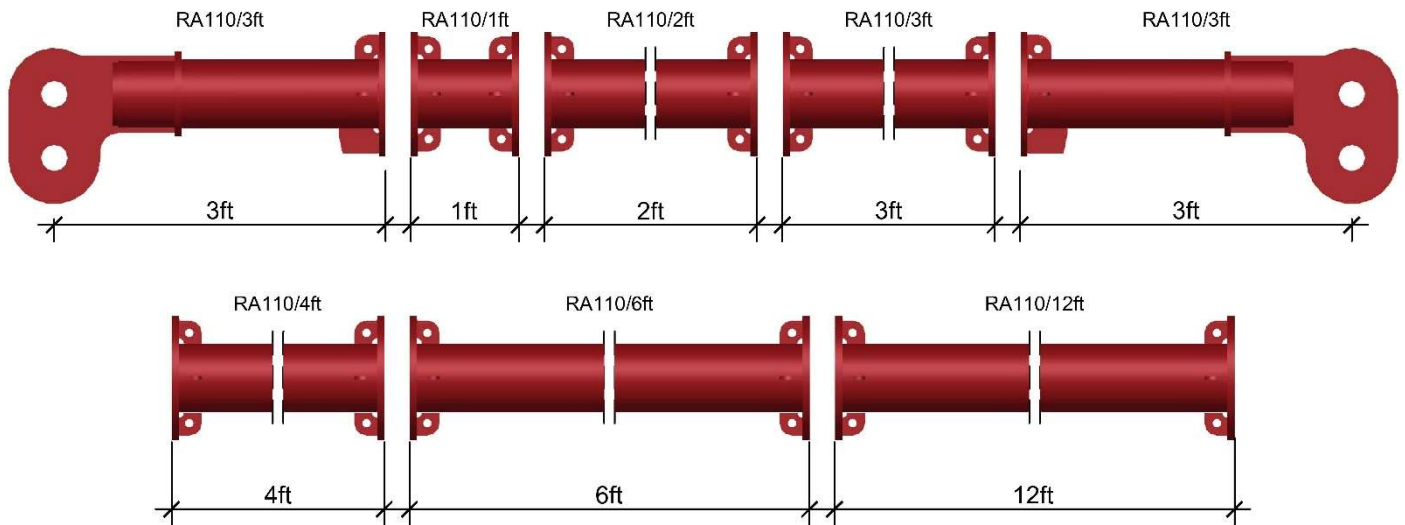
SPECIFICATION

Spreader Beam RA110 WLL_{max}=110t, L_{max}=46ft consists of:

- 2 end units RAK: 3ft
- Struts RA used to adjust the span: 1ft, 2ft, 3ft, 4ft, 6ft, 12ft
- 2 shackles WLL=55t and 2 shackles WLL=85t
- Maximum weight of the spreader beam, according to the recommended configuration, is 2216,8 lbs
- Load capacity: 15-110 tons
- The α angle between the beam and sling is 45° or more
- Use a bolt set to tighten (bolt+washer+nut) class 8.8. as per EN ISO 4014
- Bolt tightening torque **260 lb-ft**. Spanner size required 36mm
- Torque wrench and ring spanner are recommended as additional equipment



Span (ft)	Table 1 WLL_{max} = 110t, L_{max} = 46ft RECOMMENDED CONFIGURATION							Bolts+Nuts & Washers M24x75-8.8 EN ISO 4014 (pcs.)	Weight (lbs)
6	RK	RK						8	561,2
7	RK	1	RK					16	696,2
8	RK	2	RK					16	727,2
9	RK	3	RK					16	758,1
10	RK	1	3	RK				24	893,1
11	RK	2	3	RK				24	924,1
12	RK	6	RK					16	851,1
13	RK	1	6	RK				24	986,1
14	RK	2	6	RK				24	1017,1
15	RK	3	6	RK				24	1048,1
16	RK	1	3	6	RK			32	1183,1
17	RK	2	3	6	RK			32	1214,1
18	RK	12	RK					16	1037,1
19	RK	1	12	RK				24	1172,0
20	RK	2	12	RK				24	1203,0
21	RK	3	12	RK				24	1234,0
22	RK	1	3	12	RK			32	1369,0
23	RK	2	3	12	RK			32	1400,0
24	RK	6	12	RK				24	1327,0
25	RK	1	6	12	RK			32	1462,0
26	RK	2	6	12	RK			32	1493,0
27	RK	3	6	12	RK			32	1524,0
28	RK	4	6	12	RK			32	1555,0
29	RK	2	3	6	12	RK		40	1690,0
30	RK	2	4	6	12	RK		40	1721,0
31	RK	1	12	12	RK			32	1647,9
32	RK	2	12	12	RK			32	1678,9
33	RK	3	12	12	RK			32	1709,9
34	RK	4	12	12	RK			32	1740,9
35	RK	2	3	12	12	RK		40	1875,9
36	RK	2	4	12	12	RK		40	1906,9
37	RK	3	4	12	12	RK		40	1937,9
38	RK	2	6	12	12	RK		40	1968,9
39	RK	3	6	12	12	RK		40	1999,9
40	RK	4	6	12	12	RK		40	2030,9
41	RK	2	3	6	12	12	RK	48	2165,9
42	RK	2	4	6	12	12	RK	48	2196,9
43	RK	3	4	6	12	12	RK	48	2227,9
44	RK	2	12	12	12	RK		40	2154,8
45	RK	3	12	12	12	RK		40	2185,8
46	RK	4	12	12	12	RK		40	2216,8



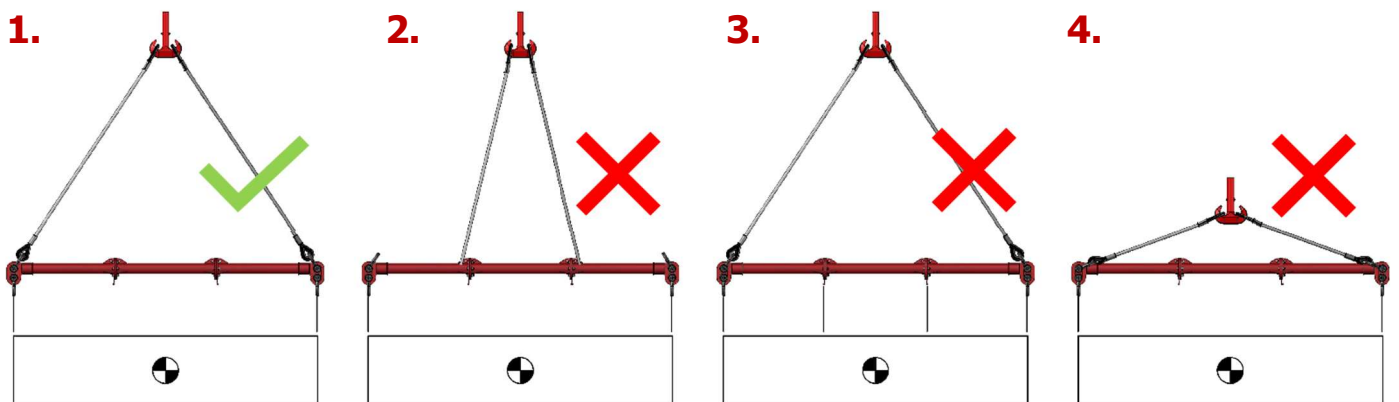
End units: RK – RAK110/3ft

Struts: 1 – RA110/1ft 2 – RA110/2ft 3 – RA110/3ft 4 – RA110/4ft
6 – RA110/6ft 12 – RA110/12ft

NOTICE

- Follow the ASME B30.20 – 2021 guidelines when using A-LIFT equipment.
- Never exceed the indicated Working Load Limit (WLL). Always refer to **Table 2** for the appropriate WLL based on the specific sling angle used.
- Top sling length is critical for safe spreader beam operation. Refer to **Table 2** for the required values.
- Do not suspend any load from the spreader tube or flanges. The beam is designed to operate in axial compression only and is not intended to withstand bending forces.
- Shackles are not included with the spreader beam. They are optional accessories provided according to customer requirements.

COMMON RIGGING MISTAKES



- Correct** sling set up example.
- Incorrect.** Upper slings are not attached to the end units.
- Incorrect.** The second pair of slings below cannot be attached to the spreader beams.
- Incorrect.** Sling angle α cannot be less than 45°

ASSEMBLY METHOD

- Verify the size of each A-LIFT component by checking its tag ID to ensure the correct part is being used.
- Lay out the beam elements on a flat surface according to **Table 1** to prevent them from rolling.
- Ensure all components and fasteners are free of dirt, debris, or damage before assembly.
- Assemble the components using the provided bolts, nuts, and washers. Tighten all bolts to the specified torque values.
- For safe use of the spreader, especially at longer spans, the number and condition of bolts are critical.
- Position the jaw of the top shackle over the jaw of the end unit, and attach the top sling to the body of the top shackle.
- Insert the top shackle pin through the shackle and the jaw of the end unit, then repeat the process at the opposite end of the beam.
- Attach the crane hook to the free ends of the top slings.
- Connect the lower slings and shackles to the lower holes of the end units, then attach them to the load to be lifted.
- Before lifting, a qualified person must perform a thorough inspection of the fully assembled spreader beam and lifting rig.

SAFETY GUIDELINES FOR USE

- Ensure the beam is loaded exclusively through the **RAK** end units.
- Always use the correct top slings and avoid unnecessary twisting of any slings.
- Keep all obstacles clear of the loaded spreader — any contact may lead to beam failure.
- Do not exceed the specified Working Load Limit (WLL) for the given span. Refer to **Table 2**.
- Never hang loads from the spreader tube, flanges, or support stands.
- Use tag lines to control the load when moving or positioning long elements or assemblies.
- Be aware that individual components may be heavy. Exercise extreme caution during any manual handling.

Table 2: SPREADER BEAM RA110 WLL_{max} = 110t, L_{max} = 46ft

Span (ft)	Base to Sing Angle (BSA)								
	$\alpha = 45^0$			$\alpha = 60^0$			$\alpha = 70^0$		
	WLL metric tons (t)	Min. Top sling length (ft in)	Min. WLL slings metric tons (t)	WLL metric tons (t)	Min. Top sling length (ft in)	Min. WLL slings metric tons (t)	WLL metric tons (t)	Min. Top sling length (ft in)	Min. WLL slings metric tons (t)
6	110,0	3' 5"	78,2	110,0	5' 2"	63,9	110,0	7' 11"	58,9
7	110,0	4' 1"	78,3	110,0	6' 2"	64,0	110,0	9' 5"	58,9
8	110,0	4' 10"	78,4	110,0	7' 2"	64,0	110,0	10' 10"	59,0
9	110,0	5' 6"	78,4	110,0	8' 2"	64,0	110,0	12' 4"	59,0
10	110,0	6' 3"	78,5	110,0	9' 2"	64,1	110,0	13' 9"	59,0
11	110,0	6' 11"	78,5	110,0	10' 2"	64,1	110,0	15' 3"	59,1
12	110,0	7' 8"	78,4	110,0	11' 2"	64,0	110,0	16' 8"	59,0
13	110,0	8' 4"	78,5	110,0	12' 2"	64,1	110,0	18' 2"	59,1
14	100,0	9' 1"	71,5	110,0	13' 2"	64,1	110,0	19' 7"	59,1
15	95,0	9' 9"	68,0	110,0	14' 2"	64,2	110,0	21' 1"	59,1
16	90,0	10' 6"	64,5	110,0	15' 2"	64,2	110,0	22' 6"	59,2
17	85,0	11' 2"	61,0	110,0	16' 2"	64,3	110,0	23' 12"	59,2
18	85,0	11' 10"	60,9	110,0	17' 2"	64,2	110,0	25' 6"	59,1
19	80,0	12' 7"	57,5	110,0	18' 2"	64,2	110,0	26' 11"	59,2
20	80,0	13' 3"	57,5	110,0	19' 2"	64,2	110,0	28' 5"	59,2
21	70,0	13' 12"	50,4	100,0	20' 2"	58,5	110,0	29' 10"	59,2
22	70,0	14' 8"	50,5	90,0	21' 2"	52,8	110,0	31' 4"	59,3
23	60,0	15' 5"	43,5	80,0	22' 2"	47,0	110,0	32' 9"	59,3

Span (ft)	Base to Sing Angle (BSA)								
	$\alpha = 45^0$			$\alpha = 60^0$			$\alpha = 70^0$		
	WLL metric tons (t)	Min. Top sling length (ft in)	Min. WLL slings metric tons (t)	WLL metric tons (t)	Min. Top sling length (ft in)	Min. WLL slings metric tons (t)	WLL metric tons (t)	Min. Top sling length (ft in)	Min. WLL slings metric tons (t)
24	60,0	16' 1"	43,4	80,0	23' 2"	47,0	110,0	34' 3"	59,3
25	60,0	16' 10"	43,5	80,0	24' 2"	47,1	110,0	35' 8"	59,3
26	60,0	17' 6"	43,5	80,0	25' 2"	47,1	110,0	37' 2"	59,4
27	55,0	18' 3"	40,0	75,0	26' 2"	44,2	100,0	38' 7"	54,1
28	50,0	18' 11"	36,5	70,0	27' 2"	41,4	100,0	40' 1"	54,1
29	45,0	19' 8"	33,1	65,0	28' 2"	38,5	100,0	41' 7"	54,2
30	40,0	20' 4"	29,6	60,0	29' 2"	35,7	90,0	43' 0"	48,8
31	38,0	21' 1"	28,1	60,0	30' 2"	35,6	90,0	44' 6"	48,8
32	35,0	21' 9"	26,0	60,0	31' 2"	35,7	90,0	45' 11"	48,8
33	35,0	22' 6"	26,0	60,0	32' 2"	35,7	90,0	47' 5"	48,8
34	32,0	23' 2"	23,9	55,0	33' 2"	32,8	90,0	48' 10"	48,9
35	30,0	23' 11"	22,6	50,0	34' 2"	30,0	90,0	50' 4"	48,9
36	30,0	24' 7"	22,6	45,0	35' 2"	27,1	80,0	51' 9"	43,6
37	27,0	25' 4"	20,5	45,0	36' 2"	27,1	80,0	53' 3"	43,6
38	25,0	26' 0"	19,1	45,0	37' 2"	27,2	70,0	54' 8"	38,3
39	25,0	26' 9"	19,1	45,0	38' 2"	27,2	60,0	56' 2"	33,0
40	22,0	27' 5"	17,0	40,0	39' 2"	24,3	60,0	57' 7"	33,0
41	22,0	28' 2"	17,1	40,0	40' 2"	24,4	50,0	59' 1"	27,8
42	20,0	28' 10"	15,8	35,0	41' 2"	21,5	50,0	60' 7"	27,8
43	20,0	29' 7"	15,8	30,0	42' 2"	18,7	40,0	62' 0"	22,5
44	15,0	30' 3"	12,2	30,0	43' 2"	18,6	40,0	63' 6"	22,5
45	15,0	30' 12"	12,2	30,0	44' 2"	18,6	40,0	64' 11"	22,5
46	15,0	31' 8"	12,2	30,0	45' 2"	18,6	40,0	66' 5"	22,5

CERTIFICATES



PN-EN ISO 9001



PN-EN ISO 3834
PN-EN 1090-1

CONTACT



The official U.S. distributor:
HORIZON CRANE & RIGGING Inc.
HOMER GLEN, IL



Daniel Izbinski
T: +1 815 763 2754
www.horizonrigging.com