

Modular Spreader Beams provide the ideal solution for most lifting requirements – versatile and cost-effective, the Modulift range has capacity from 2t to 5000t with spans up to 330ft/100m. The modular configuration and interchangeable components enable Modulift Spreaders to be reused over many lifts. Designed by our engineering experts and manufactured in our own specialist facilities; the Modulift range are the leading Modular Spreader Beams on the market.

Spreader Beams up to 600t are in stock and available worldwide for distribution – please contact Modulift for an immediate quote or further details.

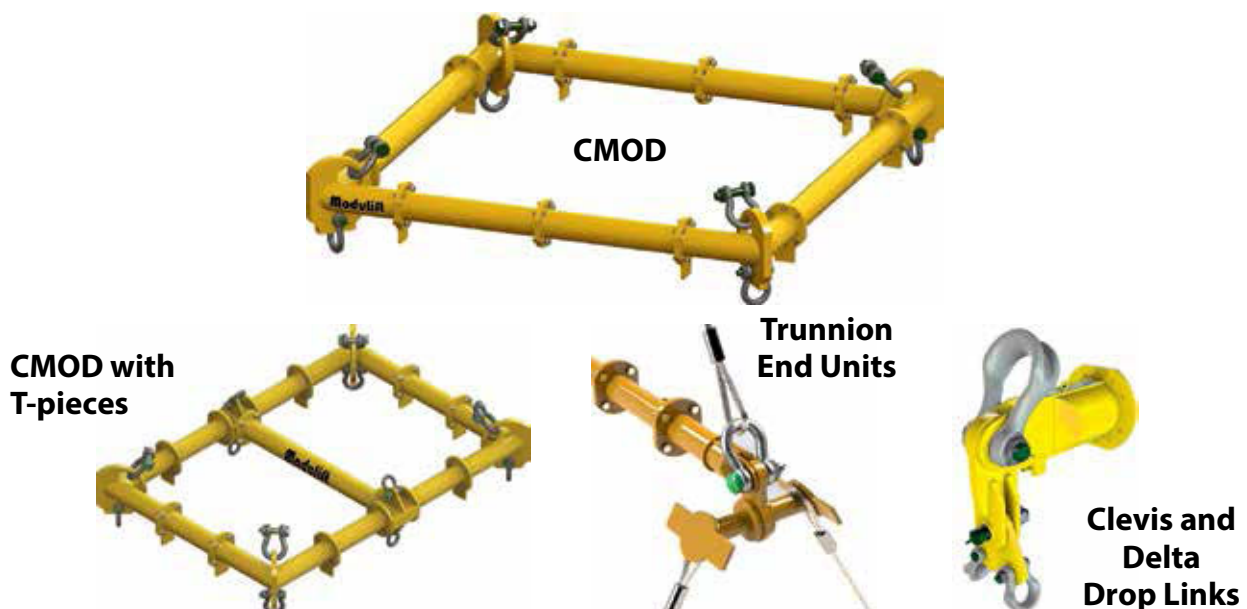
Every Modulift Modular Spreader Beam consists of a pair of End Units and a pair of Drop Links, with interchangeable struts that can be bolted into the assembly between the End Units to either lengthen or shorten the beam to suit the requirements of the lift, making them reusable at different spans.



**Available
for rent or
purchase**

Flexibility beyond the Spreader Beam

Using our range of interchangeable corner units and T-pieces, Modulift struts can be used throughout the product portfolio to achieve a variety of configurations including 3-point, 4-point, 6-point and 8-point frames. End units also offer maximum flexibility with trunnion and Clevis drop link options enabling the user to have two slings hung from each end of the beam for a variety of benefits. Call or email us for more information.



Modulift®

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Modulift prides themselves on being able to offer you a complete lifting engineering service from start to finish. We are here to help you solve your lifting problems, advise on rig planning, design custom lifting equipment, or manufacture quality assured products to the highest specifications.



Standard Off-the-Shelf Range

QJ2 Up to 2t at 4ft	MOD 34 Up to 34t at 16ft Up to 32ft at a lower capacity.
MOD 6 Up to 6t at 112" Up to 176" at a lower capacity.	MOD 50 Up to 50t at 21ft Up to 42ft at a lower capacity.
MOD 12 Up to 12t at 12ft Up to 21ft at a lower capacity	MOD 70 Up to 70t 26ft Up to 45ft at a lower capacity.
MOD 24 Up to 24t at 14ft Up to 26ft at a lower capacity.	MOD 70H Up to 100t at 23ft Up to 45ft at a lower capacity.

Heavy Off-the-Shelf Range

MOD 110 Up to 110 t at 37ft Up to 59ft at a lower capacity	MOD 250/300 Up to 300t at 34ft Up to 68ft at a lower capacity.	MOD 400/600 Up to 600t at 36ft Up to 78ft at a lower capacity.
MOD 110H Up to 170t at 30ft Up to 59ft at a lower capacity.	MOD 250/400 Up to 400t at 28ft Up to 68ft at a lower capacity.	MOD 600/600 Up to 600t at 66ft Up to 85ft at a lower capacity.
MOD 110SH Up to 240t at 28ft Up to 55ft at a lower capacity.	MOD 400/400 Up to 400t at 46ft Up to 78ft at a lower capacity.	MOD 600/800 Up to 800t at 58ft Up to 85ft at a lower capacity
MOD 250/250 Up to 250t at 38ft Up to 68ft at a lower capacity.	MOD 400/500 Up to 500t at 40ft Up to 78ft at a lower capacity.	MOD 600/1000 Up to 1000t at 50ft and up to 85ft at a lower capacity.

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User Instructions

MOD 110H

Modulift®
working between the hook and the load

The Modulift Spreader is modular in length, and every spreader consists of 1 pair of End Units and Drop Links, with intermediate struts that can be bolted into the assembly to achieve different spans. MOD 110H has an assembled span ranging from 6ft to 59ft in 1ft increments.

Fig. 1 – Typical Spreader Assembly

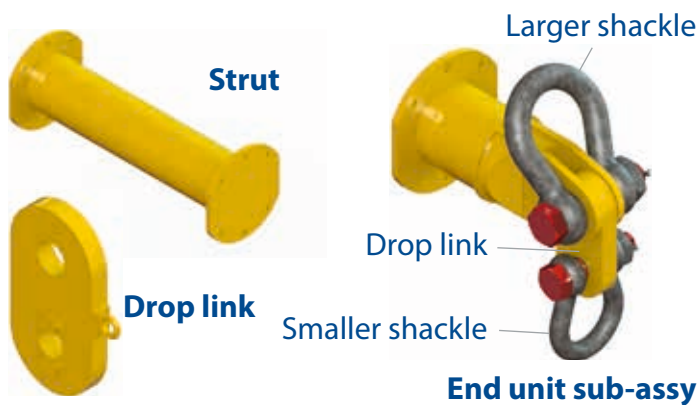
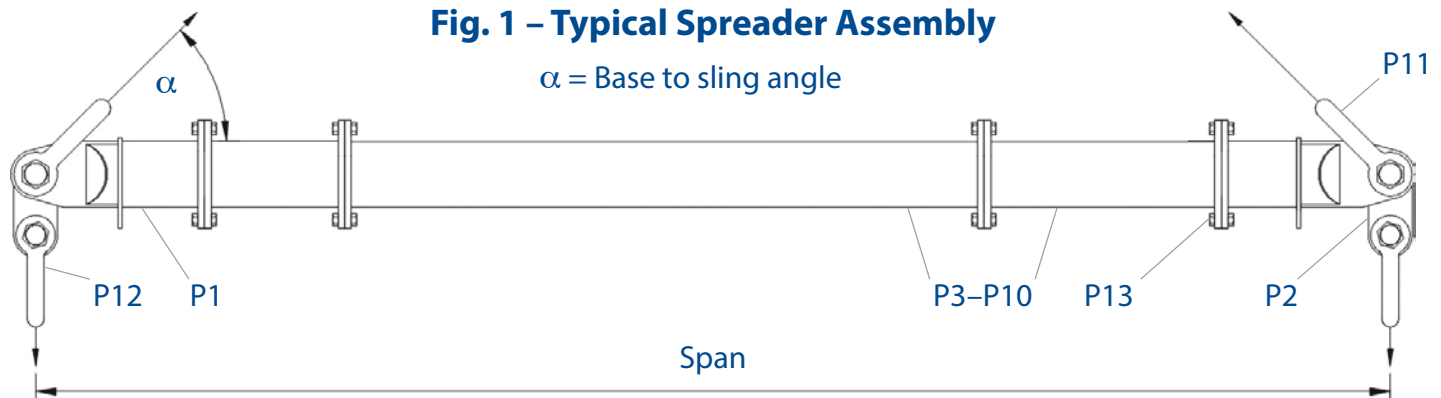


Table 1 – Component List

Part Ref.	Description	Weight/item
P1	End Unit	384 lbs
P2	Drop Link	171 lbs
P3	20ft Strut	1170 lbs
P4	12ft Strut	750 lbs
P5	10ft Strut	650 lbs
P6	8ft Strut	540 lbs
P7	6ft Strut	440 lbs
P8	4ft Strut	345 lbs
P9	2ft Strut	230 lbs
P10	1ft Strut	185 lbs
P11	120t Shackle	243 lbs
P12	85t Shackle	137 lbs
P13	M20 x 65 Grade 8.8 HT Bolts, Nuts & Washers	

MOD 110H Beam Specification

- Rated at 170 tonnes SWL at 30ft span (60° BSA). See Load Table for SWL at longer spans.
- 'Base to Sling' angle, α , 45 degrees or more.
- End Units & Drop Links are rated at 85 tonnes WLL each (170 tonnes combined capacity).
- **Bolt tightening torque: 110 Pound-Foot.** Spanner size required: 30mm.
- Recommended additional equipment: Torque Wrench, Podger Spanner and Ring Spanner.

WARNING!

- Personnel using this system should be suitably trained, competent and have a clear understanding of Safe Slings procedures.
- The use of Modulift equipment must be in accordance with the procedures laid down in 'ASME B30.20 - 2013'.
- **Never exceed stated SWL** – Adhere to SWL in **Table 2** for particular sling angle used.
- **The top sling length is critical to the safe use of the spreader** – Adhere to **Table 2**.
- Ensure Drop Links hang down, and smaller shackles are connected to bottom hole of Drop Link.
- Do not under any circumstances hang load(s) from the tube or flanges – the spreader is designed for axial compression, not bending.

User Instructions

MOD 110H

Assembly Procedure

- Check the ID plates on each Modulift component to ensure the correct size is used.
- Lay out the Struts and End Units in the correct configuration (see **Table 2**), laid on flats to prevent rolling.
- Check that all pairs of flanges are clear from debris, sand etc. before connection.
- Bolt the components together using bolts, nuts & washers provided. Tighten the bolts to a torque as shown overleaf, 6 bolts per connection. The number and grade of bolts is critical for the safe use of the spreader particularly at longer spans.
- Place drop link inside the jaw of an end unit, with the larger hole of drop link lined up with the End Unit hole.
- Place a top sling onto the body of a top shackle, and put jaw of top shackle over the end unit jaw.
- Put top shackle pin through shackle, end unit jaw and drop link, and repeat for other spreader beam end.
- Attach free ends of top slings to crane hook.
- Attach lower slings and shackles to lower holes of drop links, and attach them to the load to be lifted.
- The assembled spreader beam and lifting rig must be thoroughly checked by a competent person prior to lifting.

Do's & Don'ts

- Do ensure to load the spreader through the drop links only. i.e. adhere to **Fig. 1**.
- Do keep the loaded spreader clear of obstacles – any contact could cause beam failure.
- Do ensure correct use of appropriate top slings, do not twist any slings unnecessarily.
- Do not hang any load from the spreader tube or flanges.
- Do not exceed stated SWL for that particular span – adhere to **Table 2**.
- Do not rig the lower slings more than 6 degrees from vertical.
- When moving or positioning long struts or assemblies use tag lines to control movement.
- Individual components can be heavy and extreme care must be taken if manual handling.

Recommended top sling types:

Textile slings, wire rope slings with soft eyes and chain slings with small end fittings. If thimble eyes are used with wire rope slings, make sure sling angle is 60 degrees or more. Other types exist but not all are suitable due to end fitting size, particularly larger capacity chain hook and thimble eyes.

Note: Lengthening the slings can give greater clearance.
Refer to Modulift supplier if in doubt.



Table 2 – Load v Span

Span (ft)	Base to Sling Angle (BSA) α						Recommended Configuration EU - End Unit (3ft)									
	45°		60°		70°											
	SWL metric tons (tonnes)	Min.top sling length (ft in)	SWL metric tons (tonnes)	Min.top sling length (ft in)	SWL metric tons (tonnes)	Min.top sling length (ft in)										
6	165	2'10"	170	4'7"	170	7'5"	EU	EU								
7	165	3'6"	170	5'7"	170	8'10"	EU	1	EU							
8	165	4'2"	170	6'7"	170	10'4"	EU	2	EU							
9	165	4'11"	170	7'7"	170	11'8"	EU	2	1	EU						
10	165	5'8"	170	8'7"	170	13'2"	EU	4	EU							
11	165	6'5"	170	9'7"	170	14'8"	EU	4	1	EU						
12	165	7'1"	170	10'7"	170	16'1"	EU	6	EU							
13	165	7'10"	170	11'7"	170	17'7"	EU	6	1	EU						
14	165	8'6"	170	12'7"	170	19'0"	EU	6	2	EU						
15	165	9'2"	170	13'7"	170	20'6"	EU	2	6	1	EU					
16	165	9'11"	170	14'7"	170	22'0"	EU	6	4	EU						
17	165	10'7"	170	15'7"	170	23'5"	EU	1	6	4	EU					
18	165	11'4"	170	16'7"	170	24'11"	EU	12	EU							
19	165	12'0"	170	17'7"	170	26'5"	EU	12	1	EU						
20	165	12'8"	170	18'7"	170	27'10"	EU	12	2	EU						
21	160	13'5"	170	19'7"	170	29'4"	EU	2	12	1	EU					
22	155	14'1"	170	20'7"	170	30'8"	EU	12	4	EU						
23	148	14'10"	170	21'7"	170	32'2"	EU	4	12	1	EU					
24	142	15'7"	170	22'7"	170	33'8"	EU	12	6	EU						
25	135	16'4"	170	23'7"	170	35'1"	EU	6	12	1	EU					
26	128	17'0"	170	24'7"	170	36'7"	EU	6	12	2	EU					
27	121	17'8"	170	25'7"	170	38'1"	EU	6	12	2	1	EU				
28	115	18'5"	170	26'7"	170	39'6"	EU	6	12	4	EU					
29	108	19'1"	170	27'7"	170	41'0"	EU	6	12	4	1	EU				
30	103	19'10"	170	28'7"	170	42'5"	EU	12	12	EU						
31	96	20'6"	168	29'7"	170	43'11"	EU	12	12	1	EU					
32	91	21'2"	158	30'7"	170	45'5"	EU	12	12	2	EU					
33	84	21'11"	147	31'7"	170	46'10"	EU	2	12	12	1	EU				
34	80	22'7"	139	32'7"	170	48'4"	EU	12	12	4	EU					
35	74	23'4"	129	33'7"	170	49'8"	EU	4	12	12	1	EU				
36	70	24'0"	122	34'7"	170	51'2"	EU	6	12	12	EU					
37	65	24'8"	113	35'7"	170	52'8"	EU	6	12	12	1	EU				
38	60	25'6"	106	36'7"	169	54'1"	EU	6	12	12	2	EU				
39	56	26'2"	98	37'7"	156	55'7"	EU	2	12	12	6	1	EU			
40	52	26'11"	92	38'7"	146	57'1"	EU	6	12	12	4	EU				
41	48	27'7"	85	39'7"	136	58'6"	EU	6	12	12	4	1	EU			
42	46	28'4"	81	40'7"	130	60'0"	EU	12	12	12	EU					
43	43	29'0"	75	41'7"	121	61'5"	EU	12	12	12	1	EU				
44	40	29'8"	70	42'7"	113	62'11"	EU	12	12	12	2	EU				
45	37	30'5"	65	43'7"	105	64'5"	EU	2	12	12	12	1	EU			
46	35	31'1"	62	44'7"	99	65'10"	EU	4	12	12	12	EU				
47	32	31'10"	57	45'7"	92	67'4"	EU	4	12	12	12	1	EU			
48	30	32'6"	54	46'7"	87	68'10"	EU	12	12	12	6	EU				
49	28	33'2"	50	47'7"	81	70'2"	EU	6	12	12	12	1	EU			
50	26	33'11"	47	48'7"	76	71'8"	EU	6	12	12	12	2	EU			
51	24	34'7"	44	49'7"	71	73'1"	EU	6	12	12	12	2	1	EU		
52	23	35'5"	41	50'7"	67	74'7"	EU	6	12	12	12	4	EU			
53	21	36'1"	38	51'7"	62	76'1"	EU	6	12	12	12	4	1	EU		
54	20	36'10"	37	52'7"	59	77'6"	EU	12	12	12	12	EU				
55	19	37'6"	34	53'7"	55	79'0"	EU	12	12	12	12	1	EU			
56	17	38'2"	32	54'7"	52	80'5"	EU	12	12	12	12	2	EU			
57	16	38'11"	30	55'7"	48	81'11"	EU	12	12	12	12	2	1	EU		
58	15	39'7"	28	56'7"	46	83'5"	EU	12	12	12	12	4	EU			
59	14	40'4"	26	57'7"	42	84'10"	EU	12	12	12	12	4	1	EU		



WARNING!

- The rigger must ensure that there is a clearance between the sling end fitting and the end unit as shown opposite.
- Max number of struts allowed in spreader assembly: 6.
- Assemble longer struts in the centre of the spreader configuration.
- Sling angle is crucial to safe use of spreader.

Clearance



Clearance

