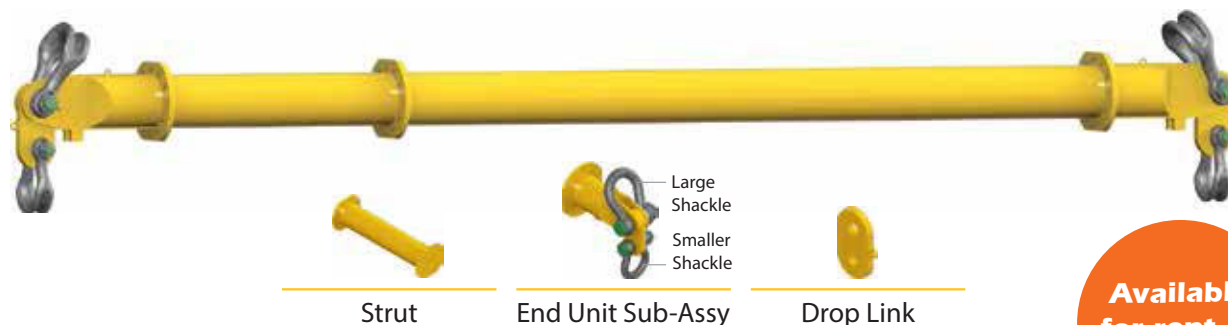


Modular Spreader Beams provide the ideal solution for most lifting requirements – versatile and cost-effective, the Modulift range has capacity from 2t to 5000t with spans up to 330ft/100m. The modular configuration and interchangeable components enable Modulift Spreaders to be reused over many lifts. 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.

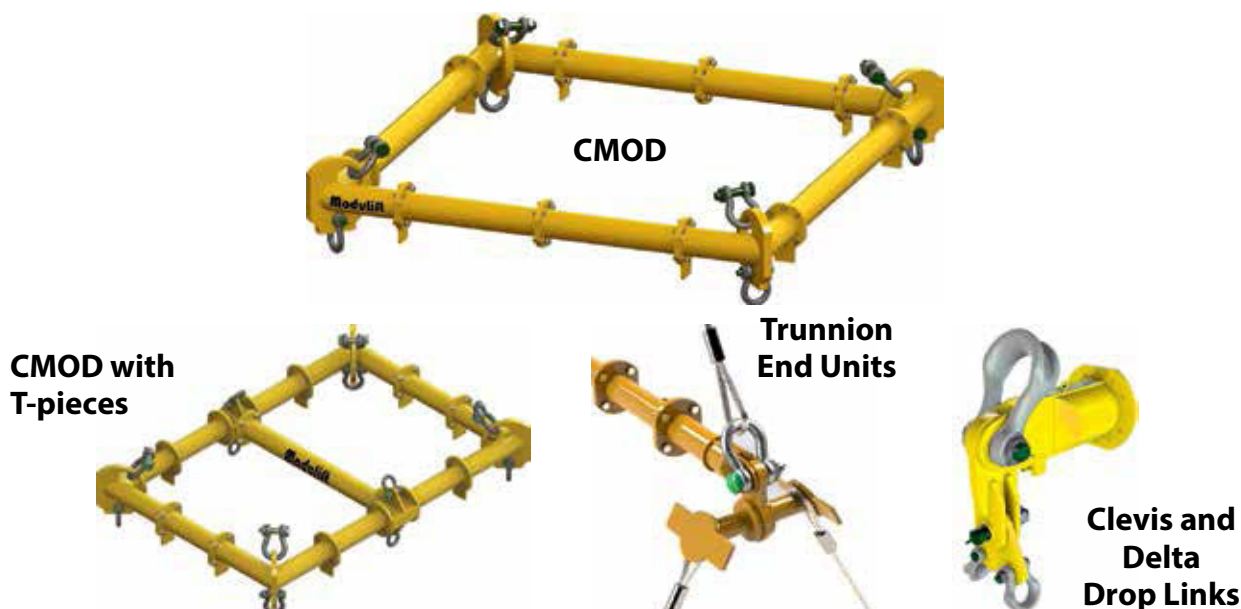
Every Modulift Modular Spreader Beam consists of a pair of End Units and a pair of Drop Links, with interchangeable struts that can be bolted into the assembly between the End Units to either lengthen or shorten the beam to suit the requirements of the lift, making them reusable at different spans.



**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®

3

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.

*MOD and CMOD are trademarks of Modulift UK Ltd

User Instructions

MOD 110

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 110 has an assembled span ranging from 6ft to 59ft in 1ft increments..

Fig. 1 – Typical Spreader Assembly

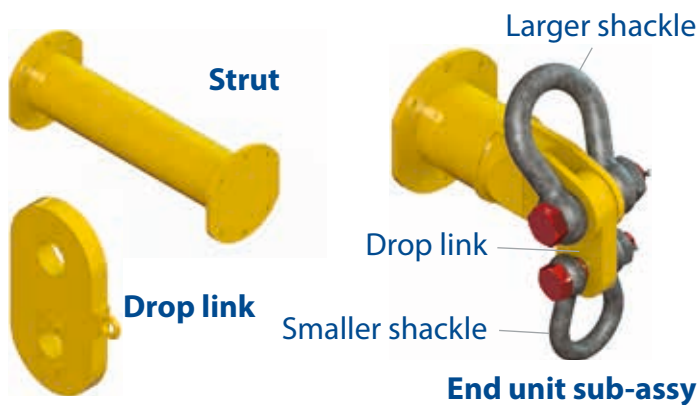
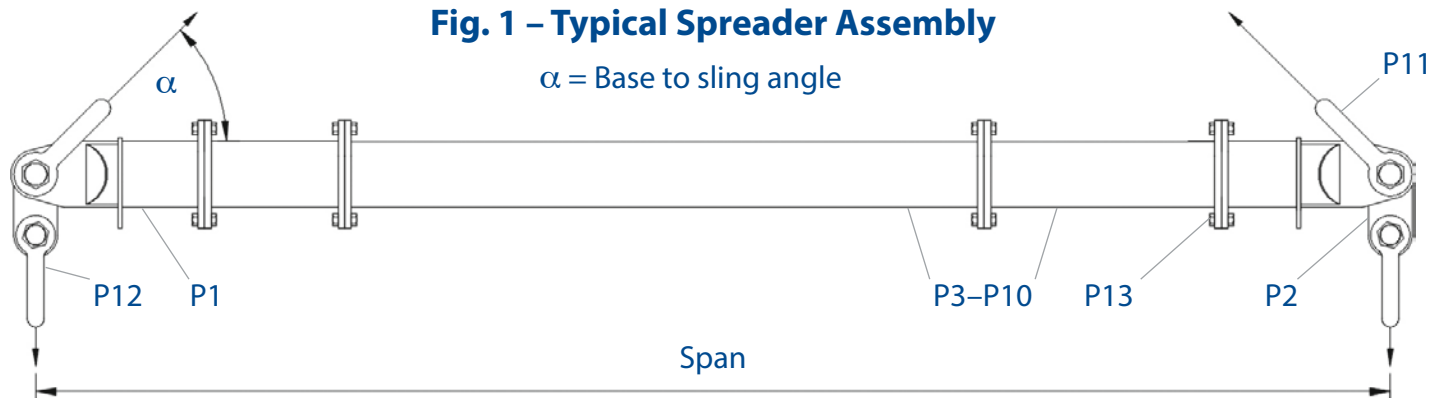


Table 1 – Component List

Part Ref.	Description	Weight/item
P1	End Unit	379 lbs
P2	Drop Link	99 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	85t Shackle	137 lbs
P12	55t Shackle	87 lbs
P13	M20 x 65 Grade 8.8 HT Bolts, Nuts & Washers	

MOD 110 Beam Specification

- Rated at 110 tonnes SWL at 37ft 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 55 tonnes WLL each (110 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 110

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

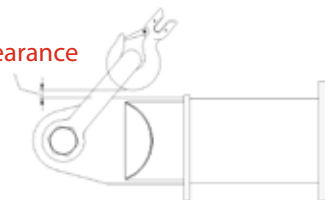
Span (ft)	Base to Sling Angle (BSA) α						Recommended Configuration EU - End Unit (3ft)									
	45°		60°		70°											
	SWL metric tons (tonnes)	Min.top sling length (ft in)	SWL metric tons (tonnes)	Min.top sling length (ft in)	SWL metric tons (tonnes)	Min.top sling length (ft in)										
6	110	3'1"	110	4'10"	110	7'7"	EU	EU								
7	110	3'10"	110	5'10"	110	9'1"	EU	1	EU							
8	110	4'6"	110	6'10"	110	10'6"	EU	2	EU							
9	110	5'2"	110	7'10"	110	12'0"	EU	2	1	EU						
10	110	5'11"	110	8'10"	110	13'6"	EU	4	EU							
11	110	6'7"	110	9'10"	110	14'11"	EU	4	1	EU						
12	110	7'4"	110	10'10"	110	16'5"	EU	6	EU							
13	110	8'0"	110	11'10"	110	17'10"	EU	6	1	EU						
14	110	8'8"	110	12'10"	110	19'4"	EU	6	2	EU						
15	110	9'5"	110	13'10"	110	20'10"	EU	2	6	1	EU					
16	110	10'1"	110	14'10"	110	22'2"	EU	6	4	EU						
17	110	10'11"	110	15'10"	110	23'8"	EU	1	6	4	EU					
18	110	11'7"	110	16'10"	110	25'1"	EU	12	EU							
19	110	12'4"	110	17'10"	110	26'7"	EU	12	1	EU						
20	110	13'0"	110	18'10"	110	28'1"	EU	12	2	EU						
21	110	13'8"	110	19'10"	110	29'6"	EU	2	12	1	EU					
22	110	14'5"	110	20'10"	110	31'0"	EU	12	4	EU						
23	110	15'1"	110	21'10"	110	32'6"	EU	4	12	1	EU					
24	110	15'10"	110	22'10"	110	33'11"	EU	12	6	EU						
25	110	16'6"	110	23'10"	110	35'5"	EU	6	12	1	EU					
26	110	17'2"	110	24'10"	110	36'10"	EU	6	12	2	EU					
27	110	17'11"	110	25'10"	110	38'4"	EU	6	12	2	1	EU				
28	110	18'7"	110	26'10"	110	39'10"	EU	6	12	4	EU					
29	108	19'4"	110	27'10"	110	41'2"	EU	6	12	4	1	EU				
30	103	20'0"	110	28'10"	110	42'8"	EU	12	12	EU						
31	96	20'10"	110	29'10"	110	44'2"	EU	12	12	1	EU					
32	91	21'6"	110	30'10"	110	45'7"	EU	12	12	2	EU					
33	84	22'2"	110	31'10"	110	47'1"	EU	2	12	12	1	EU				
34	80	22'11"	110	32'10"	110	48'6"	EU	12	12	4	EU					
35	74	23'7"	110	33'10"	110	50'0"	EU	4	12	12	1	EU				
36	70	24'4"	110	34'10"	110	51'6"	EU	6	12	12	EU					
37	65	25'0"	110	35'10"	110	52'11"	EU	6	12	12	1	EU				
38	60	25'8"	106	36'10"	110	54'5"	EU	6	12	12	2	EU				
39	56	26'5"	98	37'10"	110	55'10"	EU	2	12	12	6	1	EU			
40	52	27'1"	92	38'10"	110	57'4"	EU	6	12	12	4	EU				
41	48	27'10"	85	39'10"	110	58'10"	EU	6	12	12	4	1	EU			
42	46	28'6"	81	40'10"	110	60'2"	EU	12	12	12	EU					
43	43	29'2"	75	41'10"	110	61'8"	EU	12	12	12	1	EU				
44	40	29'11"	70	42'10"	110	63'2"	EU	12	12	12	2	EU				
45	37	30'8"	65	43'10"	105	64'7"	EU	2	12	12	12	1	EU			
46	35	31'5"	62	44'10"	99	66'1"	EU	4	12	12	12	EU				
47	32	32'1"	57	45'10"	92	67'6"	EU	4	12	12	12	1	EU			
48	30	32'10"	54	46'10"	87	69'0"	EU	12	12	12	6	EU				
49	28	33'6"	50	47'10"	81	70'6"	EU	6	12	12	12	1	EU			
50	26	34'2"	47	48'10"	76	71'11"	EU	6	12	12	12	2	EU			
51	24	34'11"	44	49'10"	71	73'5"	EU	6	12	12	12	2	1	EU		
52	23	35'7"	41	50'10"	67	74'11"	EU	6	12	12	12	4	EU			
53	21	36'4"	38	51'10"	62	76'4"	EU	6	12	12	12	4	1	EU		
54	20	37'0"	37	52'10"	59	77'10"	EU	12	12	12	12	EU				
55	19	37'8"	34	53'10"	55	79'2"	EU	12	12	12	12	1	EU			
56	17	38'5"	32	54'10"	52	80'8"	EU	12	12	12	12	2	EU			
57	16	39'1"	30	55'10"	48	82'2"	EU	12	12	12	12	2	1	EU		
58	15	39'10"	28	56'10"	46	83'7"	EU	12	12	12	12	4	EU			
59	14	40'7"	26	57'10"	42	85'1"	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

