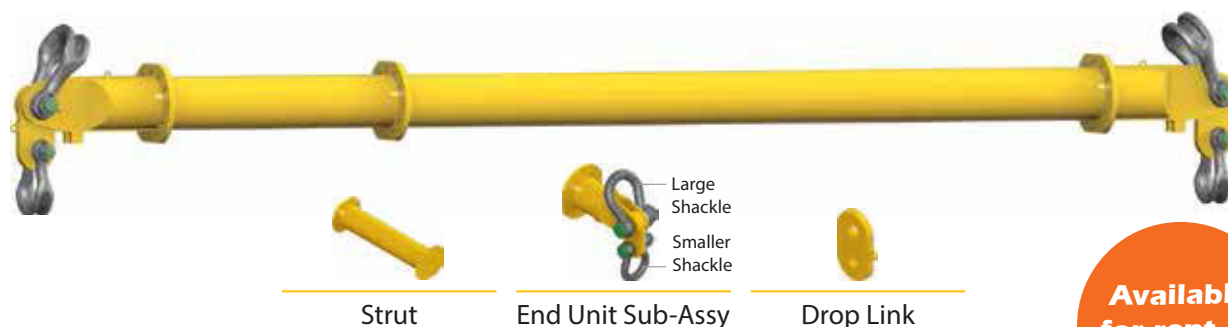


Modular Spreader Beams provide the ideal solution for most lifting requirements – versatile and cost-effective, the Modulift range has capacity from 2t to 5000t with spans up to 330ft/100m. The modular configuration and interchangeable components enable Modulift Spreaders to be reused over many lifts.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

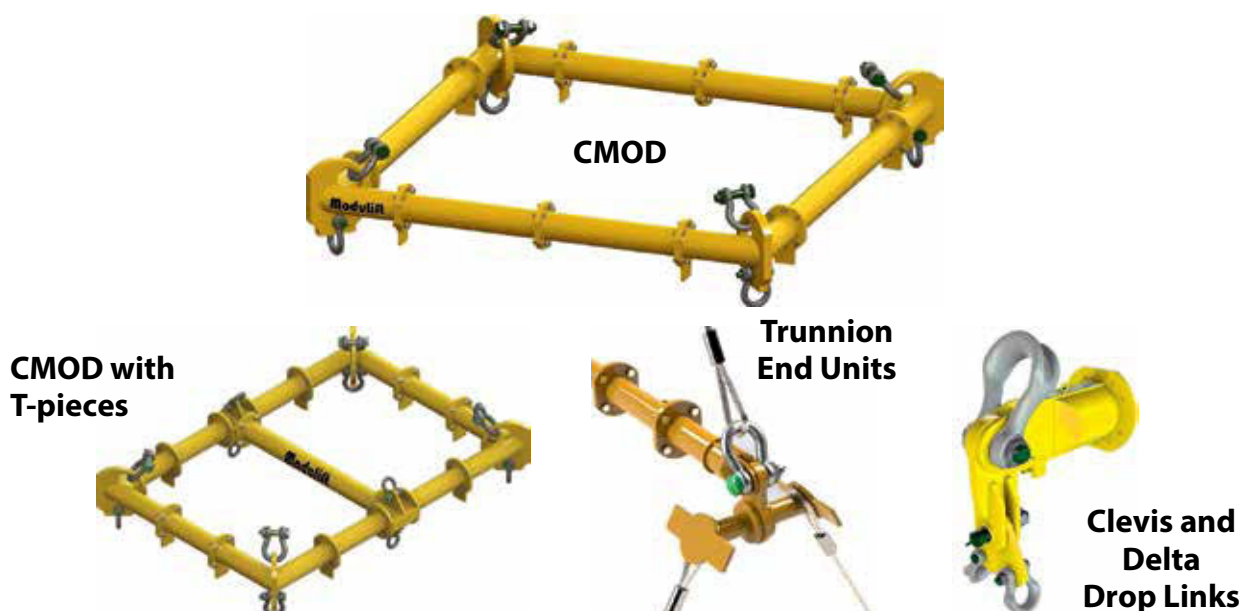
Every Modulift Modular Spreader Beam consists of a pair of End Units and a pair of Drop Links, with interchangeable struts that can be bolted into the assembly between the End Units to either lengthen or shorten the beam to suit the requirements of the lift, making them reusable at different spans.



**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

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

## Heavy Off-the-Shelf Range

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

\*MOD and CMOD are trademarks of Modulift UK Ltd

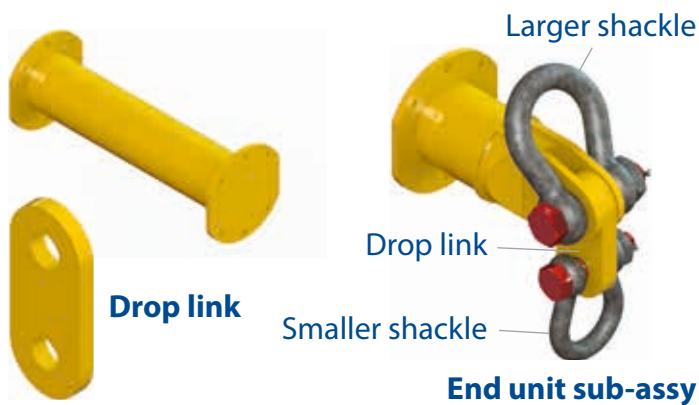
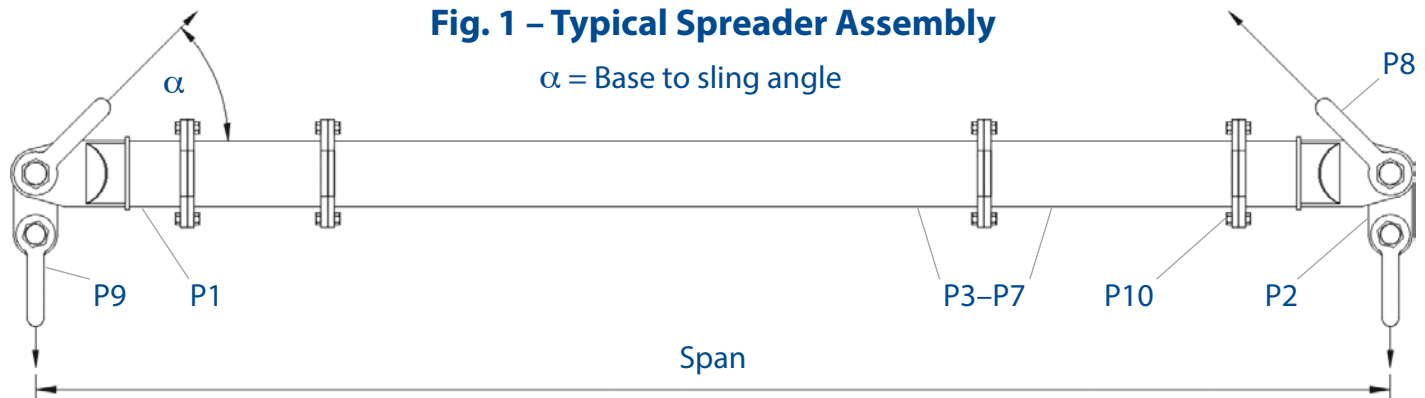
# User Instructions

## MOD 50

**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 50 has an assembled span ranging from 3ft to 42ft in 1ft increments.

**Fig. 1 – Typical Spreader Assembly**



**Table 1 – Component List**

Part Ref.	Description	Weight/item
P1	End Unit	84 lbs
P2	Drop Link	24 lbs
P3	12ft Strut	285 lbs
P4	6ft Strut	168 lbs
P5	3ft Strut	109 lbs
P6	2ft Strut	90 lbs
P7	1ft Strut	70 lbs
P8	35t Shackle	44 lbs
P9	25t Shackle	31 lbs
P10	M20 x 65, Grade 8.8, HT Bolts, Nuts & Washers	

### MOD 50 Beam Specification

- Rated at 50 tonnes SWL at 21ft span (60° BSA). See Load Table for SWL at longer spans.
- 'Base to Sling' angle,  $\alpha$ , 45 degrees or more.
- End Units & Drop Links are rated at 25 tonnes WLL each (50 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 50

### 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 (1.5ft)						
	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)							
3	50	1'5"	50	2'4"	50	3'8"	EU	EU					
4	50	2'1"	50	3'4"	50	5'2"	EU	1	EU				
5	50	2'10"	50	4'4"	50	6'7"	EU	2	EU				
6	50	3'7"	50	5'4"	50	8'1"	EU	3	EU				
7	50	4'4"	50	6'4"	50	9'6"	EU	3	1	EU			
8	50	5'0"	50	7'4"	50	11'0"	EU	3	2	EU			
9	50	5'8"	50	8'4"	50	12'6"	EU	6	EU				
10	50	6'5"	50	9'4"	50	13'11"	EU	6	1	EU			
11	50	7'1"	50	10'4"	50	15'5"	EU	6	2	EU			
12	50	7'10"	50	11'4"	50	16'11"	EU	6	3	EU			
13	50	8'6"	50	12'4"	50	18'4"	EU	3	6	1	EU		
14	50	9'2"	50	13'4"	50	19'10"	EU	3	6	2	EU		
15	50	9'11"	50	14'4"	50	21'2"	EU	12	EU				
16	48	10'7"	50	15'4"	50	22'8"	EU	12	1	EU			
17	44	11'4"	50	16'4"	50	24'2"	EU	12	2	EU			
18	41	12'0"	50	17'4"	50	25'7"	EU	12	3	EU			
19	37	12'8"	50	18'4"	50	27'1"	EU	3	12	1	EU		
20	33	13'6"	50	19'4"	50	28'6"	EU	3	12	2	EU		
21	30	14'2"	50	20'4"	50	30'0"	EU	6	12	EU			
22	27	14'11"	47	21'4"	50	31'6"	EU	6	12	1	EU		
23	24	15'7"	42	22'4"	50	32'11"	EU	6	12	2	EU		
24	22	16'4"	38	23'4"	50	34'5"	EU	6	12	3	EU		
25	19	17'0"	34	24'4"	50	35'11"	EU	3	6	12	1	EU	
26	17	17'8"	30	25'4"	49	37'4"	EU	3	6	12	2	EU	
27	16	18'5"	28	26'4"	45	38'10"	EU	12	12	EU			
28	14	19'1"	25	27'4"	41	40'2"	EU	12	12	1	EU		
29	13	19'10"	23	28'4"	37	41'8"	EU	12	12	2	EU		
30	12	20'6"	21	29'4"	34	43'2"	EU	12	12	3	EU		
31	11	21'2"	19	30'4"	31	44'7"	EU	3	12	12	1	EU	
32	10	21'11"	17	31'4"	28	46'1"	EU	3	12	12	2	EU	
33	9.3	22'7"	16	32'4"	26	47'7"	EU	6	12	12	EU		
34	8.4	23'5"	14	33'4"	24	49'0"	EU	6	12	12	1	EU	
35	7.7	24'1"	13	34'4"	21	50'6"	EU	6	12	12	2	EU	
36	7	24'10"	12	35'4"	20	51'11"	EU	6	12	12	3	EU	
37	6.3	25'6"	11	36'4"	18	53'5"	EU	6	12	12	3	1	EU
38	5.7	26'2"	10	37'4"	16	54'11"	EU	6	12	12	3	2	EU
39	5.3	26'11"	9.6	38'4"	15	56'4"	EU	12	12	6	6	EU	
40	5	27'7"	9	39'4"	14	57'10"	EU	12	12	12	1	EU	
41	4.5	28'4"	8.3	40'4"	13	59'2"	EU	12	12	12	2	EU	
42	4.1	29'0"	7.5	41'4"	12	60'8"	EU	12	12	12	2	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: 5
- Assemble longer struts in the centre of the spreader configuration.
- Sling angle is crucial to safe use of spreader.

Clearance



Clearance

