LIFTMAX® IFTING DEVICES 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.



Flexibility beyond the Spreader Beam

Using our range of interchangable 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.



BISHOP Liftmax[®] Lifting Devices

Modulift[®] Spreader Bars

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.







Heavy Off-the-Shelf Range



NCES r Beams anes	ISO 9001=ISO 14001 OHSAS 18001			С	F	
*MC	DD and C	MOL) are			

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		-		
QJ2 Up to 2t at 4ft	MOD 34 Up to 34t at 16ft Up to 32ft at a lower capacity.	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 6	MOD 50	MOD 110H	MOD 250/400	MOD 600/600
Up to 6t at 112"	Up to 50t at 21ft	Up to 170t at 30ft	Up to 400t at 28ft	Up to 600t at 66ft
Up to 176" at a	Up to 42ft at a	Up to 59ft at a	Up to 68ft at a	Up to 85ft at
lower capacity.	lower capacity.	lower capacity.	lower capacity.	a lower capacity.
MOD 12	MOD 70	MOD 110SH	MOD 400/400	MOD 600/800
Up to 12t at 12ft	Up to 70t 26ft	Up to 240t at 28ft	Up to 400t at 46ft	Up to 800t at 58ft
Up to 21ft at a	Up to 45ft at a	Up to 55ft at a	Up to 78ft at a	Up to 85ft at
lower capacity	lower capacity.	lower capacity.	lower capacity.	a lower capacity
MOD 24	MOD 70H	MOD 250/250	MOD 400/500	MOD 600/1000
Up to 24t at 14ft	Up to 100t at 23ft	Up to 250t at 38ft	Up to 500t at 40ft	Up to 1000t at 50ft
Up to 26ft at a	Up to 45ft at a	Up to 68ft at a	Up to 78ft at a	and up to 85ft at a
lower capacity.	lower capacity.	lower capacity.	lower capacity.	lower capacity.

Standard Off-the-Shelf Range

lifting.com

User Instructions MOD 34



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 34 has an assembled span ranging from 3ft to 32ft in 1ft increments.





MOD 34 Beam Specification

- Rated at 34 tonnes SWL at 16ft span (60° BSA). See Load Table for SWL at longer spans.
- 'Base to Sling' angle, α , 45 degrees or more.

Table 1 – Component List

Part Ref.	Description	Weight/item				
P1	End Unit	49 lbs				
P2	Drop Link	15 lbs				
P3	6ft Strut	103 lbs				
P4	4ft Strut	71 lbs				
P5	2ft Strut	48 lbs				
P6	1ft Strut	34 lbs				
P7	25t Shackle	31 lbs				
P8	17t Shackle	18 lbs				
P9	M20 x 50, Grade 8.8, HT Bolts, Nuts & Washers					

- End Units & Drop Links are rated at 17 tonnes WLL each (34 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 Slinging 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 34

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, 4 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.**

MOD 34 US FEBRUARY 2018 © Copyright 2018 Modulift. All rights reserved. Should you find your equipment is no longer of use, please dispose of in a responsible manner. Please contact Modulift if you need further guidance Table 2 – Load v Span

	Base to Sling Angle (BSA) $lpha$													
6	4	45° 60°		0°	70°		Decommonded Configuration							
(ft)	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)	EU - End Unit (1.5ft)							
3	34	1′6″	34	2′5″	34	3′10″	EU	EU						
4	34	2′2″	34	3′5″	34	5′2″	EU	1	EU					
5	34	2′11″	34	4′5″	34	6′8″	EU	2	EU					
6	34	3′7″	34	5′5″	34	8′2″	EU	2	1	EU				
7	34	4′4″	34	6′5″	34	9′7″	EU	4	EU					
8	34	5′0″	34	7′5″	34	11′1″	EU	4	1	EU				
9	34	5′8″	34	8′5″	34	12′6″	EU	6	EU					
10	34	6′6″	34	9′5″	34	14′0″	EU	6	1	EU				
11	34	7′2″	34	10′5″	34	15'6″	EU	6	2	EU				
12	33	7′11″	34	11′5″	34	16′11″	EU	2	6	1	EU			
13	29	8′7″	34	12′5″	34	18′5″	EU	4	6	EU				
14	26	9′4″	34	13′5″	34	19′11″	EU	4	6	1	EU			
15	22	10′0″	34	14′5″	34	21′4″	EU	6	6	EU				
16	19	10′8″	34	15′5″	34	22′10″	EU	6	6	1	EU			
17	17	11′5″	30	16′5″	34	24′2″	EU	6	6	2	EU			
18	14	12′1″	25	17′5″	34	25'8″	EU	1	6	6	2	EU		
19	13	12′ 10″	22	18′5″	34	27′2″	EU	6	6	4	EU			
20	11	13′6″	20	19′5″	31	28'7″	EU	1	6	6	4	EU		
21	10	14′2″	17	20′5″	28	30′1″	EU	6	6	6	EU			
22	9	14′11″	15	21′5″	25	31'6"	EU	6	6	6	1	EU		
23	8	15'7"	14	22′5″	22	33′0″	EU	6	6	6	2	EU		
24	7.1	16′5″	12	23′5″	19	34′6″	EU	1	6	6	6	2	EU	
25	6.4	17′1″	11	24′5″	17	35′11″	EU	6	6	6	4	EU		
26	5.7	17′10″	10	25′5″	16	37′5″	EU	1	6	6	6	4	EU	
27	5.1	18′6″	9	26′5″	14	38′11″	EU	6	6	6	6	EU		
28	4.5	19′2″	8.1	27′5″	13	40′4″	EU	6	6	6	6	1	EU	
29	4.1	19′11″	7.3	28′5″	11	41′10″	EU	6	6	6	6	2	EU	
30	3.6	20'7"	6.5	29′ 5″	10	43′2″	EU	6	6	6	6	2	1	EU
31	3.3	21′4″	5.9	30′ 5″	9.6	44′8″	EU	6	6	6	6	4	EU	
32	2.9	22′0″	5.3	31′5″	8.6	46′2″	EU	6	6	6	6	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.



