

USER INSTRUCTIONS

- MODULIFT 6

The Modulift Spreader is modular in length, and every spreader consists of 1 pair of End Units & Drop Links, with intermediate struts that can be assembled to achieve different spans. The Modulift 6 has an assembled span ranging from 400mm to 2.5 metres in 100mm increments.

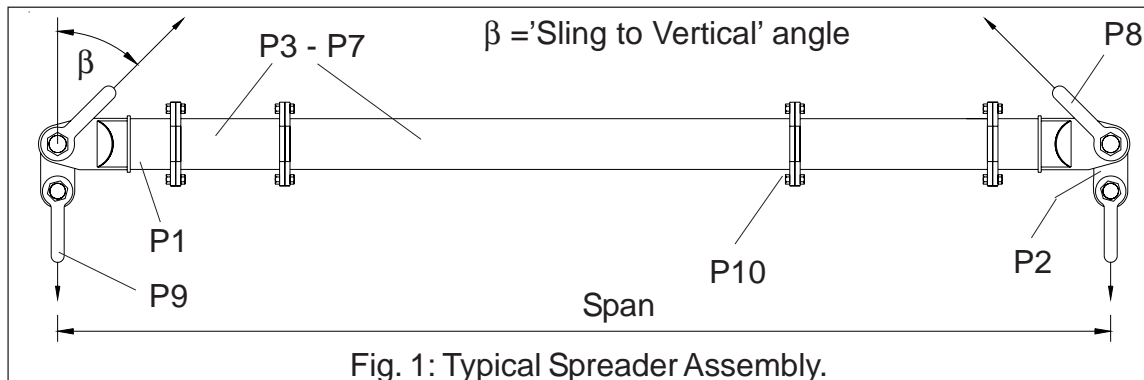
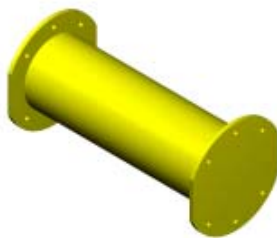


TABLE 1: Component List.

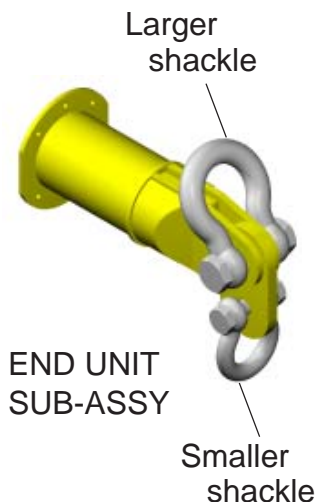
PART REF:	DESCRIPTION	WEIGHT / ITEM
P1	END UNIT	3.0 KG
P2	DROP LINK	0.6 KG
P3	1000mm STRUT	8.1 KG
P4	600mm STRUT	5.4 KG
P5	300mm STRUT	3.4 KG
P6	200mm STRUT	2.7 KG
P7	100mm STRUT	2.0 KG
P8	4.75 t SHACKLE	1.1 KG
P9	3.25 t SHACKLE	0.7 KG
P10	M10x30 HT BOLTS, NUTS & WASHERS	-



STRUT



DROP LINK



Modulift 6 - Beam specification.

- Rated at 6 tonnes WLL at 2.5 metres span.
- 'Sling to vertical' angle, β , 45 degrees or less.
- End Units & Drop Links are rated at 3 tonnes (6 tonnes combined capacity).
- **Bolt tightening torque: 60Nm.** Spanner size required: 17mm.



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 'Lifting Operations and Lifting Equipment Regulations 1998' (LOLER).
- NEVER EXCEED STATED WLL - ADHERE TO WLL IN TABLE 2, FOR PARTICULAR SLING ANGLE USED.
- THE 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.

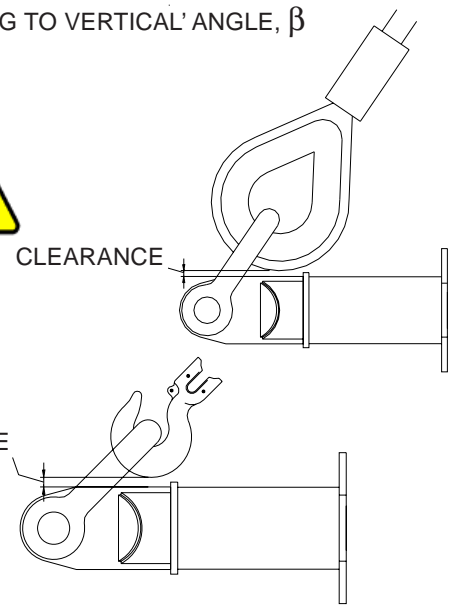
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TABLE 2: Load v Span.

45° STV			Recommended Configuration. EU - End Unit (0.2m)				30° STV				
Span / mm	WLL / t	Min Sling Length/m	EU	EU	EU	EU	Span / mm	WLL / t	Min Sling Length/m		
400	6	0.3	EU	EU			400	6	0.4		
500	6	0.4	EU	100	EU		500	6	0.5		
600	6	0.5	EU	200	EU		600	6	0.6		
700	6	0.5	EU	300	EU		700	6	0.7		
800	6	0.6	EU	300	100	EU	800	6	0.8		
900	6	0.7	EU	300	200	EU	900	6	0.9		
1000	6	0.7	EU	600	EU		1000	6	1.0		
1100	6	0.8	EU	600	100	EU	1100	6	1.1		
1200	6	0.9	EU	600	200	EU	1200	6	1.2		
1300	6	0.9	EU	600	300	EU	1300	6	1.3		
1400	6	1.0	EU	1000	EU		1400	6	1.4		
1500	6	1.1	EU	1000	100	EU	1500	6	1.5		
1600	6	1.2	EU	1000	200	EU	1600	6	1.6		
1700	6	1.2	EU	1000	300	EU	1700	6	1.7		
1800	6	1.3	EU	1000	300	100	EU	1800	6	1.8	
1900	6	1.4	EU	1000	300	200	EU	1900	6	1.9	
2000	6	1.5	EU	1000	600	EU		2000	6	2.0	
2100	6	1.5	EU	600	1000	100	EU	2100	6	2.1	
2200	6	1.6	EU	600	1000	200	EU	2200	6	2.2	
2300	6	1.6	EU	600	1000	300	EU	2300	6	2.3	
2400	6	1.7	EU	600	1000	300	100	EU	2400	6	2.4
2500	6	1.8	EU	600	1000	300	200	EU	2500	6	2.5

STV = 'SLING TO VERTICAL' ANGLE, β



The operator must ensure that there is a clearance between the sling end fitting and the end unit as shown.

- 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

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 30 degrees or less. Other types exist but not all are suitable due to end fitting size, particularly larger capacity chain hook and thimble eyes. Note: Raising the slings can give greater clearance. Refer to Modulift supplier if in doubt.

ASSEMBLY PROCEDURE.

1. Check the ID plates on each Modulift component to ensure the correct size is used.
2. Lay out the Struts and End Units in the correct configuration (see table 2), laid on flats to prevent rolling.
3. Check that all pairs of flanges are clear from debris, sand etc. before connection.
4. Bolt the components together using bolts, nuts & washers provided. Tighten the bolts to a torque as shown overleaf, 4 bolts per connection.
5. Place drop link inside the jaw of an end unit, with the larger hole of drop link lined up with the End Unit hole.
6. Place a top sling onto the body of a top shackle, and put jaw of top shackle over the end unit jaw.
7. Put top shackle pin through shackle, end unit jaw and drop link, and repeat for other spreader beam end.
8. Attach free ends of top slings to crane hook.
9. Attach lower slings and shackles to lower holes of drop links, and attach them to the load to be lifted.
10. 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 ensure enough clearance between spreader and the load to prevent the load hitting the spreader. Any collision could cause failure of the spreader.
- Do not undertake a lift without correct use of appropriate top slings.
- Do not hang any load from the spreader tube or flanges.
- Do not exceed stated WLL for that particular span - adhere to table 2.
- Do not rig the lower slings more than 6 degrees from vertical.
- Do not twist any slings.

