

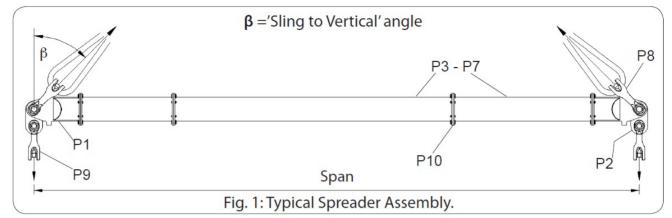
# User Instructions MOD 250/250





The Modulift Spreader is modular in lenght. Every spreader consists of 1 pair of End Units & Drop Links, with intermediate struts that can be bolted into the assembly to achieve different spans.

The MOD 250/250 has an assembled span ranging from 2 meters to 20m in 0.5m increments.



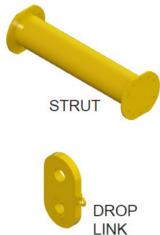


	TABLE 1:	COMPONENT LIST					
	PART REF:	DESCRIPTION	WEIGHT / ITEM				
	P1	END UNIT WLL 125t	365kg				
١	P2	DROP LINK WLL 125t	90kg				
	P3	6.0m STRUT	860kg				
	P4	3.0m STRUT	495kg				
	P5	2.0m STRUT	375kg				
	P6	1.0m STRUT	255kg				
	P7	0.5m STRUT	192kg				
	P8	200t WIDE BODY SHACKLE	205kg				
	P9	125t WIDE BODY SHACKLE	92kg				
	P10	M24x80 Grade 8.8 HT BOLTS, N WASHERS	BOLTS, NUTS &				



# MOD 250/250 - Beam specification

- Rated at 250 tonnes SWL at 13 metres span (30° STV). See load Table for SWL at longer spans.
- 'Sling to Vertical' angle, β, 45 degrees or less.
- End Units & Drop Links are rated at 125 tonnes WLL each (250 tonnes combined capacity).
- Bolt tightening torque: 250Nm. Spanner size required: 36mm.
- Recommended additional equipment: Torgue Wrench, Podger Spanner and Ring Spanner.

## **WARNING!**

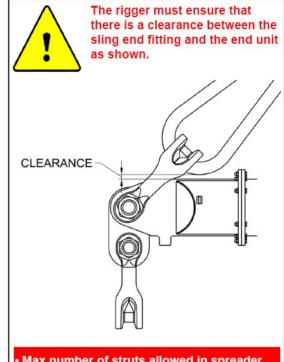
- Personnel using this system should be suitably trained, competent and have a clear understanding of Safe Slinging procedures.
- The use of Modulift equipment must be in accordance with the procedures laid down in the "Lifting Operations and Lifting Equipment Regulations 1998' (LOLER).
- NEVER EXCEED 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.





TABLE 2: Load v Span.

	45° ST	Recommended						30° STV				
Span /m	SWL /t	MinTop sling Length/m	Configuration EU - End Unit (1 m) STV = 'SLING TO VERTICAL' ANGLE, β						Span / m	SWL /t	MinTop sling Length/m	
2	250	1.5	EU	EU						2	250	2
3	250	2.5	EU	1	EU					3	250	3
4	250	3.0	EU	2	EU					4	250	4
5	250	3.5	EU	3	EU					5	250	5
6	250	4.5	EU	3	1	EU			7	6	250	6
7	250	5.0	EU	3	2	EU				7	250	7
8	244	6.0	EU	6	EU					8	250	8
9	228	6.5	EU	6	1	EU			68 Y	9	250	9
10	212	7.0	EU	6	2	EU			66 Y	10	250	10
11	194	8.0	EU	6	3	EU			St	11	250	11
12	178	8.5	EU	3	6	1	EU			12	250	12
13	158	9.5	EU	3	6	2	EU			13	250	13
14	140	10.0	EU	6	6	EU				14	242	14
15	122	10.5	EU	6	6	1	EU			15	211	15
16	106	11.5	EU	6	6	2	EU			16	183	16
17	94	12.0	EU	6	6	3	EU			17	163	17
18	82	13.0	EU	1	6	6	3	EU		18	142	18
19	70	13.5	EU	2	6	6	3	EU		19	121	19
20	52	14.5	EU	2	6	6	3	1	EU	20	90	20



To calculate the SWL at intermediate spans utilising the 0.5m strut, round up the span to the next longest span in Table 2, and use the stated SWL.

- 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: Lengthening 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 torgue as showoverleaf, 10 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 sling 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 and 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 nut undertake a lift without correct use of appropiate top slings.
- 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 then 6 degrees from vertical.
- Do not twist any slings unnecessarily.
  - \*The number and grade of bolts is critical for the safe use of the spreader particularly at longer spans.



