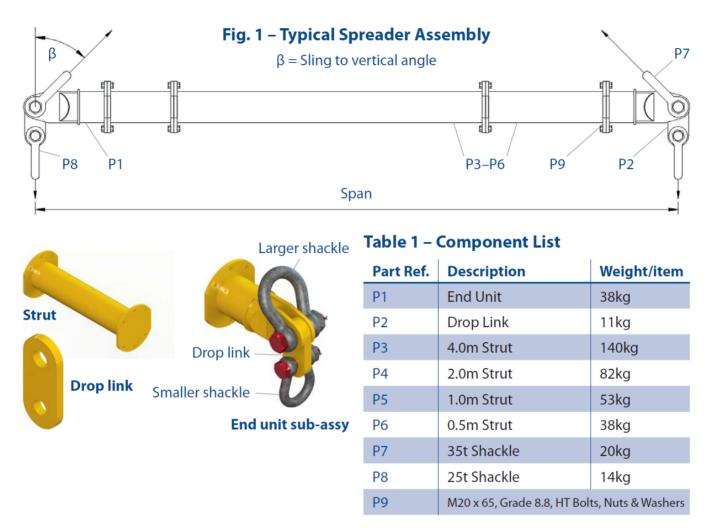


# User Instructions MOD 50



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 50 has an assembled span ranging from 1 meters to 13m in 0.5m increments.



MOD 50

- Rated at 50 tonnes SWL at 8 metres span (30° STV). See load Table for SWL at longer spans.
- 'Sling to Vertical' angle,  $\beta$ , 45 degrees or less.
- End Units & Drop Links are rated at 25 tonnes WLL each (50 tonnes combined capacity).
- Bolt tightening torgue: 150Nm. Spanner size required: 30mm.
- 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.

**MOD 50** 

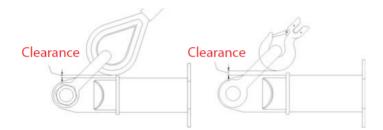




## Table 2 – Load v Span

#### Sling To Vertical Angle (STV) β





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

	Sling To Vertical Angle (STV) β												
Span (m)	4	5°	30°		20°		Perommonded Configuration						
	SWL (t)	Min.top sling length (m)	SWL (t)	Min.top sling length (m)	SWL (t)	Min.top sling length (m)	Recommended Configuration EU - End Unit (0.5m)						
1.0	50	0.5	50	0.8	50	1.3	EU	EU					
1.5	50	0.9	50	1.3	50	2.0	EU	0.5	EU				
2.0	50	1.2	50	1.8	50	2.7	EU	1	EU				
2.5	50	1.6	50	2.3	50	3.5	EU	1	0.5	EU			
3.0	50	1.9	50	2.8	50	4.2	EU	2	EU				
3.5	50	2.3	50	3.3	50	4.9	EU	2	0.5	EU			
4.0	50	2.7	50	3.8	50	5.7	EU	2	1	EU			
4.5	50	3.0	50	4.3	50	6.4	EU	0.5	2	1	EU		
5.0	50	3.4	50	4.8	50	7.1	EU	2	2	EU			
5.5	50	3.7	50	5.3	50	7.9	EU	2	2	0.5	EU		
6.0	50	4.1	50	5.8	50	8.6	EU	2	2	1	EU		
6.5	44	4.4	50	6.3	50	9.3	EU	0.5	2	2	1	EU	
7.0	39	4.8	50	6.8	50	10.1	EU	2	2	2	EU		
7.5	34	5.1	50	7.3	50	10.8	EU	0.5	2	2	2	EU	
8.0	30	5.5	50	7.8	50	11.5	EU	2	2	2	1	EU	
8.5	26	5.8	46	8.3	50	12.3	EU	0.5	1	4	2	EU	
9.0	24	6.2	42	8.8	50	13.0	EU	4	4	EU			
9.5	21	6.5	37	9.3	50	13.7	EU	4	4	0.5	EU		
10.0	19	6.9	34	9.8	50	14.4	EU	4	4	1	EU		
10.5	17	7.2	30	10.3	48	15.2	EU	1	4	4	0.5	EU	
11.0	15	7.6	26	10.8	43	15.9	EU	2	4	4	EU		
11.5	14	8.0	24	11.3	39	16.6	EU	4	4	2	0.5	EU	
12.0	12	8.3	22	11.8	35	17.4	EU	4	4	2	1	EU	
12.5	11	8.7	19	12.3	31	18.1	EU	4	4	2	1	0.5	EU
13.0	10	9.0	18	12.8	28	18.8	EU	4	4	2	2	EU	

#### **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, 6 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.





