



User Instructions

MOD 800X/1500

(J5594)

Modulift[®]
working between the hook and the load

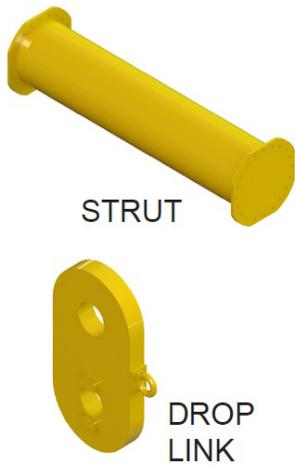
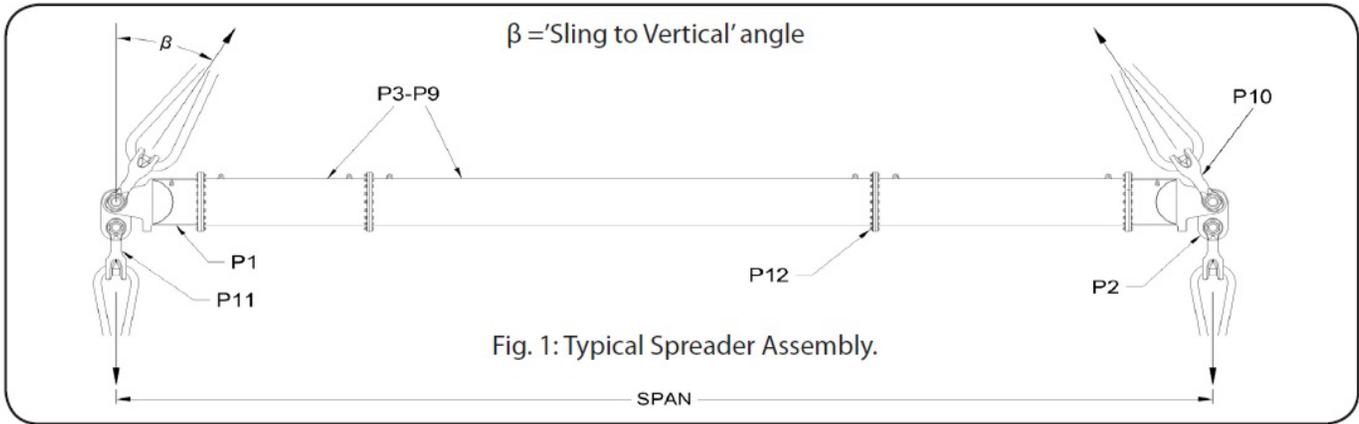
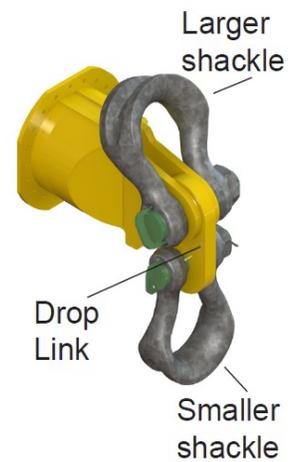


TABLE 1: COMPONENT LIST		
PART REF:	DESCRIPTION	WEIGHT / ITEM
P1	END UNIT WLL 750t	1050kg
P2	DROP LINK WLL 750t	920kg
P3	6.0m STRUT	3175kg
P4	5.0m STRUT	2715kg
P5	4.0m STRUT	2250kg
P6	3.0m STRUT	1785kg
P7	2.0m STRUT	1325kg
P8	1.0m STRUT	865kg
P9	0.5m STRUT	630kg
P10	1000t WIDE BODY SHACKLE	2970kg
P11	800t WIDE BODY SHACKLE	1430kg
P12	M24x100 Grade 12.9 HT BOLTS, NUTS & WASHERS	

END UNIT
SUB-ASSY



MOD 800X/1500 - Beam specification

- Rated at 1500 tonnes SWL at 20 metres span (30° STV). See load Table for SWL at longer spans.
- 'Sling to Vertical' angle, β , 30 degrees or less.
- End Units & Drop Links are rated at 750 tonnes WLL each (1500 tonnes combined capacity).
- Bolt tightening torque: 250Nm. Spanner size required: 36mm.
- 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 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.

Recommended Configuration. EU - End Unit (1m) STV = 'SLING to VERTICAL' ANGLE, β								30° STV			25° STV	
								Span / m	SWL / t	Min Top sling Length / m	SWL / t	Min Top sling Length / m
EU	EU							2	1500	1.5	1500	2.4
EU	1	EU						3	1500	2.5	1500	3.5
EU	2	EU						4	1500	3.5	1500	4.7
EU	3	EU						5	1500	4.5	1500	5.9
EU	3	1	EU					6	1500	5.5	1500	7.1
EU	3	2	EU					7	1500	6.5	1500	8.3
EU	6	EU						8	1500	7.5	1500	9.5
EU	6	1	EU					9	1500	8.5	1500	10.6
EU	6	2	EU					10	1500	9.5	1500	11.8
EU	6	3	EU					11	1500	10.5	1500	13.0
EU	3	6	1	EU				12	1500	11.5	1500	14.2
EU	3	6	2	EU				13	1500	12.5	1500	15.4
EU	6	6	EU					14	1500	13.5	1500	16.6
EU	6	6	1	EU				15	1500	14.5	1500	17.7
EU	6	6	2	EU				16	1500	15.5	1500	18.9
EU	6	6	3	EU				17	1500	16.5	1500	20.1
EU	1	6	6	3	EU			18	1500	17.5	1500	21.3
EU	2	6	6	3	EU			19	1500	18.5	1500	22.5
EU	6	6	6	EU				20	1500	19.5	1500	23.7
EU	6	6	6	1	EU			21	1395	20.5	1500	24.8
EU	6	6	6	2	EU			22	1305	21.5	1500	26.0
EU	6	6	6	3	EU			23	1200	22.5	1411	27.2
EU	1	6	6	6	3	EU		24	1110	23.5	1305	28.4
EU	2	6	6	6	3	EU		25	1045	24.5	1229	29.6
EU	1	2	6	6	6	3	EU	26	985	25.5	1158	30.8
EU	1	3	6	6	6	3	EU	27	915	26.5	1076	31.9
EU	2	3	6	6	6	3	EU	28	845	27.5	994	33.1

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.

Recommended top sling types: Textile slings, cable laid wire rope slings or grommets. It is strongly recommended that a sling angle of 30° STV or less is used, to always ensure clearance between the sling and end unit. Refer to Modulift supplier if a sling angle higher than 30° STV is required for SWL and suitability regarding sling clearances
 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 torque as shown overleaf, 24 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

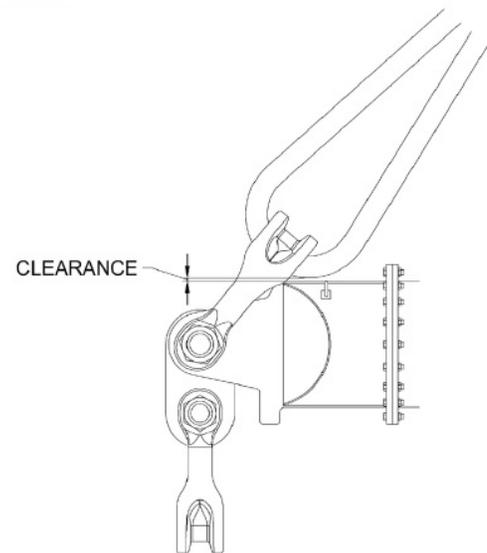
DO's and DON'TS

- 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 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 SWL 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 unnecessarily.

*The number and grade of bolts is critical for the safe use of the spreader particularly at longer spans.



The rigger 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: 6
- Assemble longer struts in the centre of the spreader configuration
- Sling angle is crucial to safe use of spreader