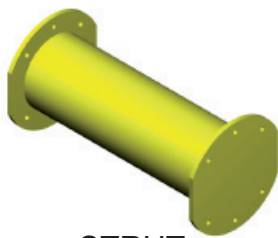
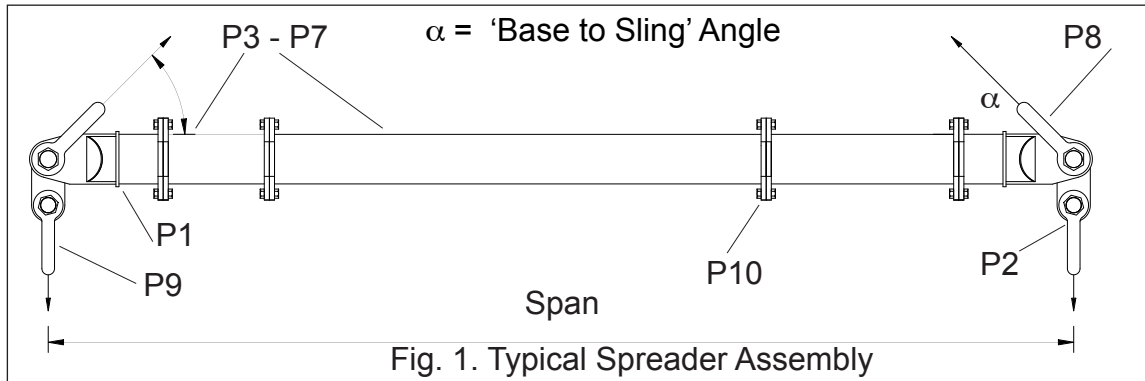


# USER INSTRUCTIONS

## - MODULIFT 50

**Modulift**<sup>®</sup>  
working between the hook and the load

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 50 has an assembled span ranging from 3 ft to 36 ft in 1 ft increments.

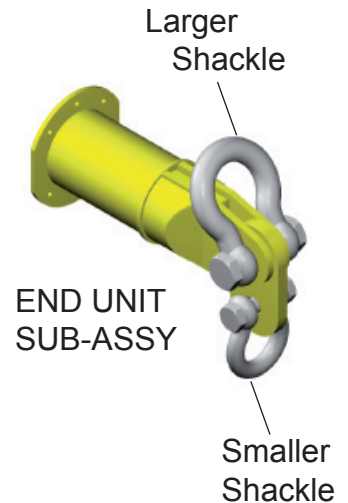


STRUT



DROP LINK

TABLE 1: COMPONENT LIST		
PART REF:	DESCRIPTION	WEIGHT / ITEM
P1	END UNIT	84lbs
P2	DROP LINK	24lbs
P3	12ft STRUT	285lbs
P4	6ft STRUT	168lbs
P5	3ft STRUT	109lbs
P6	2ft STRUT	89.5lbs
P7	1ft STRUT	70lbs
P8	35t SHACKLE	42lbs
P9	25t SHACKLE	31lbs
P10	M20X65 BOLTS, NUTS & WASHERS	



### Modulift 50 - Beam Specification.

- Rated at 50 tons WLL at 20 ft span. See Load Table for longer spans.
- Base to Sling Angle,  $\alpha$ , 45 degrees or more.
- End Units and Drop Links are rated at 25 tons (50 tons combined capacity).
- **Bolt Tightening Torque: 110 Pound-Foot; Spanner size required: 30mm.**



**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 'ASME B30.20 - 1999 Section 20 - 1.6'.
- NEVER EXCEED STATED WLL - ADHERE TO WLL IN TABLE 2, FOR 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.

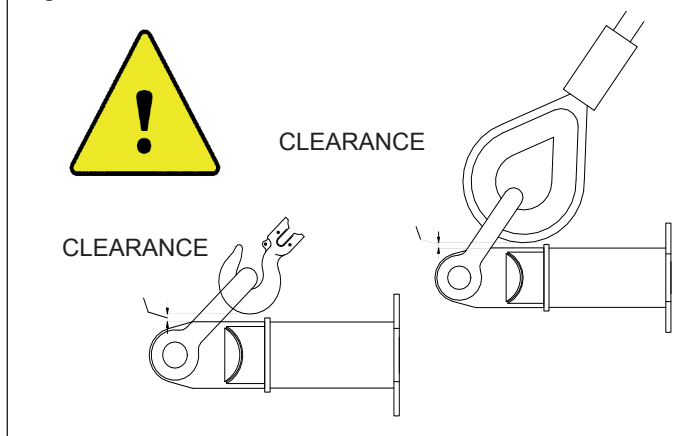
# USER INSTRUCTIONS - MODULIFT 50

TABLE 2: Load v Span.

45° BSA			Recommended Configuration.				60° BSA			
Span/ ft	WLL/ T	Min Sling Length/ft	EU - End Unit (1.5ft)				Span/ ft	WLL/ T	Min Sling Length/ft	
3	50	2.25	EU	EU			3	50	3	
4	50	3	EU	1	EU		4	50	4	
5	50	3.75	EU	2	EU		5	50	5	
6	50	4.5	EU	3	EU		6	50	6	
7	50	5	EU	3	1	EU	7	50	7	
8	50	5.75	EU	3	2	EU	8	50	8	
9	50	6.5	EU	6	EU		9	50	9	
10	50	7.25	EU	6	1	EU	10	50	10	
11	50	8	EU	6	2	EU	11	50	11	
12	50	8.5	EU	6	3	EU	12	50	12	
13	50	9.25	EU	3	6	1	EU	13	50	13
14	50	10	EU	3	6	2	EU	14	50	14
15	50	10.75	EU	12	EU		15	50	15	
16	50	11.5	EU	12	1	EU	16	50	16	
17	50	12	EU	12	2	EU	17	50	17	
18	50	12.75	EU	12	3	EU	18	50	18	
19	50	13.5	EU	3	12	1	EU	19	50	19

45° BSA			Recommended Configuration.				60° BSA				
Span/ ft	WLL/ T	Min Sling Length/ft	EU - End Unit (1.5ft)				Span/ ft	WLL/ T	Min Sling Length/ft		
20	50	14.25	EU	3	12	2	EU	20	50	20	
21	47	15	EU	6	12	EU	21	50	21		
22	43	15.75	EU	6	12	1	EU	22	50	22	
23	38	16.25	EU	6	12	2	EU	23	50	23	
24	34	17	EU	6	12	3	EU	24	50	24	
25	32	17.75	EU	6	12	3	EU	25	50	25	
26	30	18.5	EU	6	12	3	EU	26	50	26	
27	27	19	EU	12	12	EU	27	47	27		
28	25	20	EU	12	12	1	EU	28	43	28	
29	23	20.5	EU	12	12	2	EU	29	40	29	
30	21	21.25	EU	12	12	3	EU	30	36	30	
31	19	22	EU	3	12	12	1	EU	31	33	31
32	18	22.75	EU	3	12	12	2	EU	32	31	32
33	16	23.5	EU	6	12	12	EU	33	28	33	
34	15	24.25	EU	6	12	12	1	EU	34	26	34
35	14	25	EU	6	12	12	2	EU	35	24	35
36	12	25.5	EU	6	12	12	3	EU	36	21	36

Fig. 2. BSA = BASE TO SLING ANGLE,  $\alpha$



**The operator must ensure that there is a clearance between the sling end fitting and the end unit as shown in Fig. 2.**

- 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 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: 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, 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 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.

