

User Instructions

MOD 24

Modulift[®]
working between the hook and the load

The Modulift Spreader is modular in length, and every spreader consists of 1 pair of End Units and Drop Links, with intermediate struts that can be bolted into the assembly to achieve different spans. MOD 24 has an assembled span ranging from 1 metre to 8 metres in 0.5 metre increments.

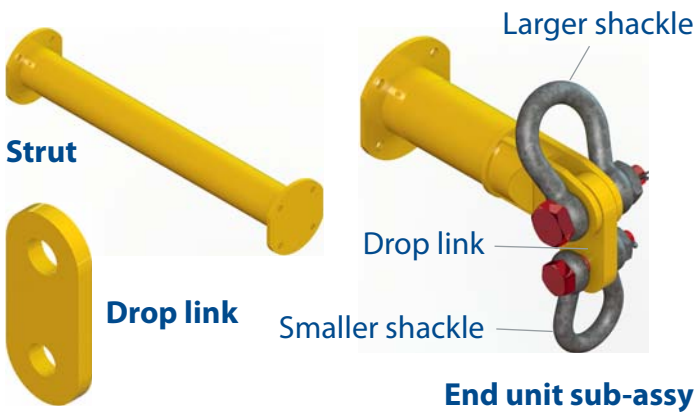
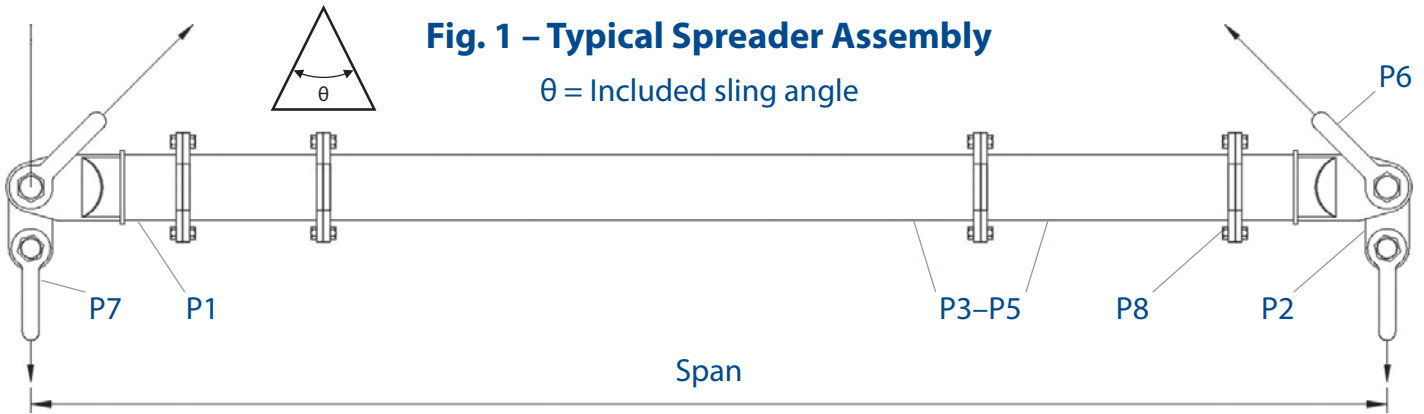


Table 1 – Component List

Part Ref.	Description	Weight/item
P1	End Unit	17kg
P2	Drop Link	5kg
P3	2.0m Strut	41kg
P4	1.0m Strut	24kg
P5	0.5m Strut	16kg
P6	17t Shackle	8kg
P7	12t Shackle	5kg
P8	M20 x 50, Grade 8.8 HT Bolts, Nuts & Washers	

MOD 24 Beam Specification

- Rated at 24 tonnes SWL at 5 metres span (60° ISA). See Load Table for SWL at longer spans.
- 'Included Sling' angle, θ , 90 degrees or less.
- End Units & Drop Links are rated at 12 tonnes WLL each (24 tonnes combined capacity).
- **Bolt tightening torque: 150Nm.** Spanner size required: 30mm.
- 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 Slinging procedures.
- The use of Modulift equipment must be in accordance with the procedures laid down in the Australian Standard: AS 4991 – 2004: Lifting Devices.
- **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.

Assembly Procedure

- Check the ID plates on each Modulift component to ensure the correct size is used.
- Lay out the Struts and End Units in the correct configuration (see **Table 2**), laid on flats to prevent rolling.
- Check that all pairs of flanges are clear from debris, sand etc. before connection.
- Bolt the components together using bolts, nuts & washers provided. Tighten the bolts to a torque as shown overleaf, 4 bolts per connection. The number and grade of bolts is critical for the safe use of the spreader particularly at longer spans.
- Place drop link inside the jaw of an end unit, with the larger hole of drop link lined up with the End Unit hole.
- Place a top sling onto the body of a top shackle, and put jaw of top shackle over the end unit jaw.
- Put top shackle pin through shackle, end unit jaw and drop link, and repeat for other spreader beam end.
- Attach free ends of top slings to crane hook.
- Attach lower slings and shackles to lower holes of drop links, and attach them to the load to be lifted.
- 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 keep the loaded spreader clear of obstacles – any contact could cause beam failure.
- Do ensure correct use of appropriate top slings, do not twist any slings unnecessarily.
- 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.
- When moving or positioning long struts or assemblies use tag lines to control movement.
- Individual components can be heavy and extreme care must be taken if manual handling.

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 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.

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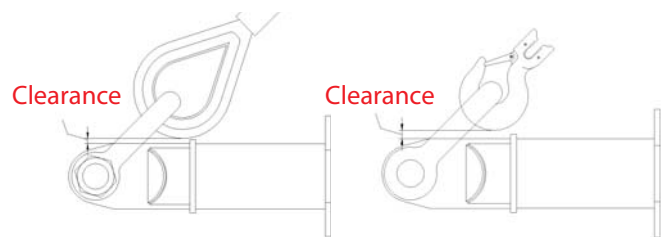
Should you find your equipment is no longer of use, please dispose of in a responsible manner. Please contact Modulift if you need further guidance



Table 2 – Load v Span

Span (m)	Included Sling Angle (ISA) θ						Recommended Configuration EU - End Unit (0.5m)					
	90°		60°		40°							
	SWL (t)	Min. top sling length (m)	SWL (t)	Min. top sling length (m)	SWL (t)	Min. top sling length (m)						
1.0	24	0.6	24	0.9	24	1.3	EU	EU				
1.5	24	0.9	24	1.4	24	2.1	EU	0.5	EU			
2.0	24	1.3	24	1.9	24	2.8	EU	1	EU			
2.5	24	1.7	24	2.4	24	3.5	EU	1	0.5	EU		
3.0	24	2.0	24	2.9	24	4.3	EU	2	EU			
3.5	24	2.4	24	3.4	24	5.0	EU	2	0.5	EU		
4.0	23	2.7	24	3.9	24	5.7	EU	2	1	EU		
4.5	19	3.1	24	4.4	24	6.5	EU	0.5	2	1	EU	
5.0	16	3.4	24	4.9	24	7.2	EU	2	2	EU		
5.5	13	3.8	23	5.4	24	7.9	EU	2	2	0.5	EU	
6.0	11	4.1	19	5.9	24	8.7	EU	2	2	1	EU	
6.5	9	4.5	16	6.4	24	9.4	EU	2	2	1	0.5	EU
7.0	8	4.8	14	6.9	22	10.1	EU	2	2	2	EU	
7.5	6	5.2	12	7.4	19	10.8	EU	2	2	2	0.5	EU
8.0	6	5.5	11	7.9	16	11.6	EU	2	2	2	1	EU

WARNING!



- 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.