User Instructions MOD 24



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 3ft to 26ft in 1ft increments.





MOD 24 Beam Specification

- Rated at 24 tonnes SWL at 14ft span (60° BSA). See Load Table for SWL at longer spans.
- 'Base to Sling' angle, α , 45 degrees or more.

Table 1 – Component List

Part Ref.	Description	Weight/item				
P1	End Unit	36 lbs				
P2	Drop Link	11 lbs				
P3	6ft Strut	80 lbs				
P4	4ft Strut	56 lbs				
P5	2ft Strut	37 lbs				
P6	1ft Strut	26 lbs				
P7	17t Shackle	18 lbs				
P8	12t Shackle	11 lbs				
P9	M20 x 50, Grade 8.8 HT Bolts, Nuts & Washers					

- End Units & Drop Links are rated at 12 tonnes WLL each (24 tonnes combined capacity).
- Bolt tightening torque: 110 Pound-Foot. 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 'ASME B30.20 2013'.
- 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.

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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

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- 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 more. 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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Table 2 – Load v Span

Raco to Sling Angle (RSA)

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		Base to Sling Angle (BSA) $lpha$													
Span (ft)	Span		5°)°)°	Recom		mmen	mended Configuration				
	(ft)	SWL metric tons (tonnes)	Min.top sling length (ft in)	SWL metric tons (tonnes)	Min.top sling length (ft in)	SWL metric tons (tonnes)	Min.top sling length (ft in)				nd Unit				
	3	24	1′7″	24	2′6″	24	3′11″	EU	EU						
	4	24	2′4″	24	3′6″	24	5′4″	EU	1	EU					
	5	24	3′0″	24	4′6″	24	6′10″	EU	2	EU					
	6	24	3′8″	24	5′6″	24	8′4″	EU	2	1	EU				
	7	24	4′6″	24	6'6"	24	9′8″	EU	4	EU					
	8	24	5′2″	24	7′6″	24	11'2″	EU	4	1	EU				
	9	24	5′11″	24	8′6″	24	12′8″	EU	6	EU					
	10	24	6′7″	24	9′6″	24	14′1″	EU	6	1	EU				
	11	22	7′ 4″	24	10′6″	24	15'7"	EU	6	2	EU				
	12	19	8′0″	24	11'6″	24	17′0″	EU	2	6	1	EU			
	13	16	8′8″	24	12′6″	24	18′6″	EU	4	6	EU				
	14	13	9′ 5″	24	13′6″	24	20′0″	EU	4	6	1	EU			
	15	11	10′ 1″	20	14′6″	24	21′5″	EU	6	6	EU				
	16	10	10′ 10″	17	15'6″	24	22′11″	EU	6	6	1	EU			
	17	8.6	11'6″	15	16'6"	24	24′5″	EU	6	6	2	EU			
	18	7.4	12′2″	13	17′6″	20	25′ 10″	EU	1	6	6	2	EU		
	19	6.5	12′11″	11	18′6″	18	27′ 4″	EU	6	6	4	EU			
	20	5.6	13'7″	9.9	19′6″	15	28′8″	EU	1	6	6	4	EU		
	21	5	14'5″	8.8	20′6″	14	30′2″	EU	6	6	6	EU			
	22	4.4	15′1″	7.7	21'6″	12	31′8″	EU	6	6	6	1	EU		
	23	3.8	15′10″	6.8	22'6″	10	33′1″	EU	6	6	6	2	EU		
	24	3.4	16'6″	6	23′6″	9.6	34′7″	EU	6	6	6	2	1	EL	
	25	3	17'2″	5.3	24'6″	8.6	36′0″	EU	6	6	6	4	EU		
	26	2.6	17′11″	4.7	25′6″	7.6	37′6″	EU	6	6	6	4	1	EL	

WARNING!

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





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