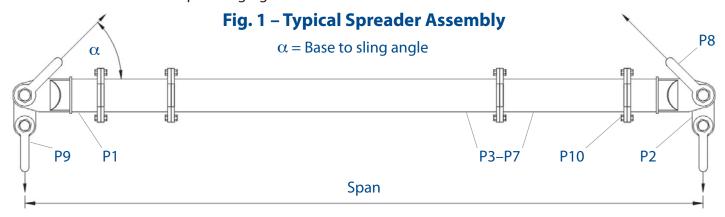
User Instructions MOD 70



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 70 has an assembled span ranging from 3ft to 45ft in 1ft increments.





MOD 70 Beam Specification

- Rated at 70 tonnes SWL at 33ft 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	119 lbs				
P2	Drop Link	37 lbs				
P3	12ft Strut	487 lbs				
P4	6ft Strut	279 lbs				
P5	4ft Strut	209 lbs				
P6	2ft Strut	140 lbs				
P7	1ft Strut	105 lbs				
P8	55t Shackle	87 lbs				
P9	35t Shackle	44 lbs				
P10	M20 x 65, Grade 8.8 HT Bolts, Nuts & Washers					

- End Units & Drop Links are rated at 35 tonnes WLL each (70 tonnes combined capacity).
- Bolt tightening torque: 110 Pound-Foot. 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 '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.

User Instructions MOD 70

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, 6 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 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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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

Base to Sling Angle (BSA) α

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	Base to Sling Angle (BSA) α												
	45° 60° 70°				Deserve de la confermenti								
Span	SWL	Min.top	SWL	Min.top	SWL	Min.top	Recommended Configuration EU - End Unit (1.5ft)						
(ft)	metric	sling	metric	sling	metric	sling			EU - EI	na Unit	(1.5π)		
	tons (tonnes)	length (ft in)	tons (tonnes)	length (ft in)	tons (tonnes)	length (ft in)							
3	(tonnes)	1'2"	(connes)	2'1"	(tonines)	3'6"	EU	EU					
4	70	1 Z 1'11″	70	2 1 3'1"	70	30 4'11"	EU	£0 1	EU				
5	70	2'7"	70	3 T 4'1"	70	4 11 6'5"	EU	2	EU				
-		27 3'4"			70			-	EU 1	FU			
6	70	5.	70	5'1"		7'11"	EU	2		EU			
7	70	4'0"	70	6'1"	70	9′4″	EU	4	EU	F 11			
8	70	4'10"	70	7′1″	70	10'10"	EU	4	1	EU			
9	70	5'6"	70	8′1″	70	12'4"	EU	6	EU				
10	70	6'2"	70	9′1″	70	13'8"	EU	6	1	EU			
11	70	6′11″	70	10′1″	70	15'2"	EU	6	2	EU			
12	70	7′7″	70	11′1″	70	16'7"	EU	1	6	2	EU		
13	70	8′4″	70	12′1″	70	18′1″	EU	6	4	EU			
14	70	9′0″	70	13′1″	70	19'7"	EU	1	6	4	EU		
15	70	9'8″	70	14′1″	70	21′0″	EU	12	EU				
16	70	10′5″	70	15′1″	70	22′6″	EU	1	12	EU			
17	70	11′1″	70	16′1″	70	24′0″	EU	2	12	EU			
18	70	11′10″	70	17′1″	70	25′5″	EU	2	12	1	EU		
19	70	12′6″	70	18′ 1″	70	26'11"	EU	4	12	EU			
20	70	13′2″	70	19′1″	70	28′4″	EU	4	12	1	EU		
21	70	13′11″	70	20′1″	70	29′10″	EU	6	12	EU			
22	70	14′8″	70	21′1″	70	31′4″	EU	6	12	1	EU		
23	70	15′5″	70	22′1″	70	32′8″	EU	6	12	2	EU		
24	70	16′ 1″	70	23′1″	70	34′2″	EU	6	12	2	1	EU	
25	70	16'10"	70	24′1″	70	35'7″	EU	6	12	4	EU		
26	68	17′6″	70	25′1″	70	37′1″	EU	6	12	4	1	EU	
27	64	18′2″	70	26′1″	70	38'7″	EU	12	12	EU			
28	61	18′11″	70	27′1″	70	40'0"	EU	12	12	1	EU		
29	57	19′7″	70	28′1″	70	41′6″	EU	12	12	2	EU		
30	53	20′4″	70	29′1″	70	43′0″	EU	2	12	12	1	EU	
31	49	21′0″	70	30′1″	70	44′5″	EU	12	12	4	EU		
32	45	21′8″	70	31′1″	70	45′11″	EU	4	12	12	1	EU	
33	43	22′5″	70	32′1″	70	47′4″	EU	12	12	6	EU		
34	40	23′1″	69	33′1″	70	48′10″	EU	6	12	12	1	EU	
35	38	23'10"	65	34′1″	70	50'4"	EU	6	12	12	2	EU	
36	36	24′7″	62	35′1″	70	51'8″	EU	6	12	12	2	1	EU
37	32	25'4"	55	36′1″	70	53'2"	EU	6	12	12	4	EU	
38	30	26'0"	51	37'1"	70	54'8"	EU	6	12	12	4	1	EU
39	29	26'8"	50	38'1"	70	56'1"	EU	6	12	12	4	2	EU
40	27	27'5"	46	39'1"	70	57'7"	EU	12	12	12		EU	
41	26	28'1"	45	40'1"	70	59'0"	EU	12	12	12	2	EU	
42	24	28'10"	41	41'1"	65	60'6"	EU	12	12	12	2	1	EU
43	23	29'6"	39	42′1″	63	62'0"	EU	12	12	12	4	EU	
44	22	30'2"	38	43'1"	60	63′5″	EU	12	12	12	4	1	EU
45	20	30'11"	34	44'1"	57	64'11"	EU	12	12	12	6	EU	LU
45	20	5011	J4	-1-1 1	57	0411	LU	12	12	12	0	LU	

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.

Clearance



