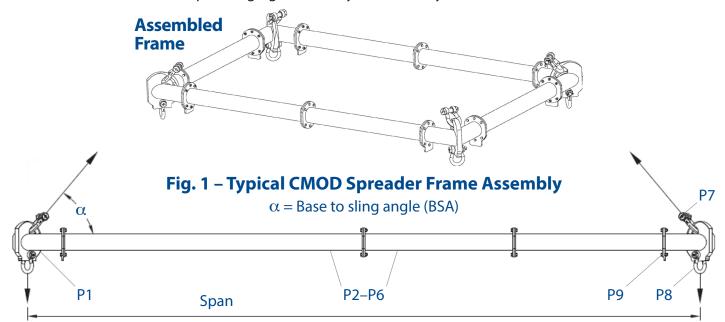
User Instructions CMOD 50 Spreader Frame



The CMOD Spreader Frame is modular in span and every frame consists of 4 Corner Units, with intermediate Struts that can be bolted into the assembly to achieve different spans. CMOD 50 has an assembled span ranging from 4ft by 4ft to 36ft by 36ft in 1ft increments.





CMOD 50 Frame Specification

- Rated at a maximum of 60 tonnes SWL.
 Please see **Table 2** for SWL at specific spans.
- 'Base to Sling' angle, α , no less than 45 degrees.
- Corner Units are rated at 15 tonnes each (60 tonnes combined capacity).

Part Ref. Description

Table 1 – Component List

r ar chen.	Description	weight/item					
P1	Corner Unit (length 2ft each)	345 lbs					
P2	12ft Strut	285 lbs					
P3	6ft Strut	168 lbs					
P4	3ft Strut	109 lbs					
P5	2ft Strut	90 lbs					
P6	1ft Strut	70 lbs					
P7	35t Shackle	44 lbs					
P8	25t Shackle	31 lbs					
P9	M20 x 65, Grade 8.8, HT Bolts, Nuts & Washers						

Weight/item

- 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 Ensure you refer to the correct table.

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WARNING!

- Do not under any circumstances hang load(s) from the tube or flanges – the Spreader Frame is designed for compression – not bending.
- Ensure that the top Shackle contacts the bow of the corner plate 'bow-to-bow'.
- The components in the frame will be marked as ASME 'Category B', however the frame is modular and some arrangements may be 'Category A' due to this please contact Modulift prior to any 'Category B' application (e.g. Offshore).
- Max number of Struts allowed in assembly: 5 per side
- Assemble longer Struts in the centre of the configuration
- Sling angle is crucial to safe use of frame.
- The top sling must be positioned centrally in the Shackle pin to ensure even loading. Contact your Modulift supplier for supply of loose spacers where required.

Do's & Don'ts

- Do ensure that the frame is only loaded at the Corner Units and they are all equally loaded.
- Do ensure enough clearance between frame and the load to prevent the load hitting the frame. Any collision could cause failure of the frame.
- Do not undertake a lift without the correct use of appropriate top slings.
- Do not hang any loads from the Strut tube or flanges.
- Do not exceed the stated SWL for your span.
- Do not rig the lower slings more than 6° from vertical.

Assembly Procedure

- Check the ID plates on each Modulift component to ensure the correct size is used.
- Lay out the Struts and Corner Units in the correct configuration.
- Check all flanges are clear from debris, sand etc. before connection.
- Bolt the components together* using bolts, nuts & washers provided. Tighten the bolts to torque as shown overleaf.
- Loop the top Shackles through the bows of the Corner Units so they contact 'bow-to-bow'. The eye of the top slings can then be passed through the jaws of the Shackles and the pins replaced.
- Loop the bottom Shackles through the eyes of the drop slings and connect to the bottom of the Corner Unit with the Shackle pin.
- Attach the lower slings to the load to be lifted.
- The assembled Spreader Frame and lifting rig must be thoroughly checked by a competent person prior to lifting.

*The use of a Podger Spanner will aid in assembly by helping to align the bolt holes by forcing it through.

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Table 2 – Load v Span

First pick the span required for your frame (e.g. 10ft x 28ft) and the Sling Angle (we recommend 60° BSA where possible), then check the SWL via the appropriate table. Read the table by locating the lower span on the y axis of the chart and the larger on the x. The cell which you are referred to, will indicate the SWL for your chosen span. If your exact span is not noted in the table, then please round up or down to the values that will give you the lowest SWL (to ensure no overloads are applied). Please contact Modulift for confirmation on your SWL if required. SWL given in Metric Tons (Tonnes).

CMOD 50: SWL / tonnes @ 60° BSA

36										32		
34										38	31	
31	45 3									36	30	
28	54 44									34	29	
25	54 53 42								33	27		
22	60 53							53	51	40	32	26
19	60						60	51	47	38	30	25
16	60 60						56	47	45	36	29	25
13	60 60 6					60	52	45	43	34	28	24
10	60 60			60	60	50	45	42	34	27	23	
7		60	60	60	60	60	50	45	41	33	26	23
4	60	60	60	60	60	60	50	45	41	32	26	22
Span (ft)	4	7	10	13	16	19	22	25	28	31	34	36

CMOD 50: SWL / tonnes @ 45° BSA

36										18		
34										22	18	
31	25									21	17	
28	31 24									19	16	
25	31 30 23								18	15		
22	3						31	30	29	22	18	14
19	40						31	29	27	22	17	14
16	40 40						29	27	25	21	16	13
13	50 40					36	27	25	24	19	15	13
10	50 50			40	36	25	25	23	19	15	12	
7		50	50	50	40	36	25	25	22	18	14	12
4	50	50	50	50	40	36	25	25	22	18	14	12
Span (ft)	4	7	10	13	16	19	22	25	28	31	34	36