

# USER INSTRUCTIONS

## QJ2

**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 bolted into the assembly to achieve different spans. The QJ2 has an assembled span ranging from 300mm to 1.2 metres in 100mm increments.

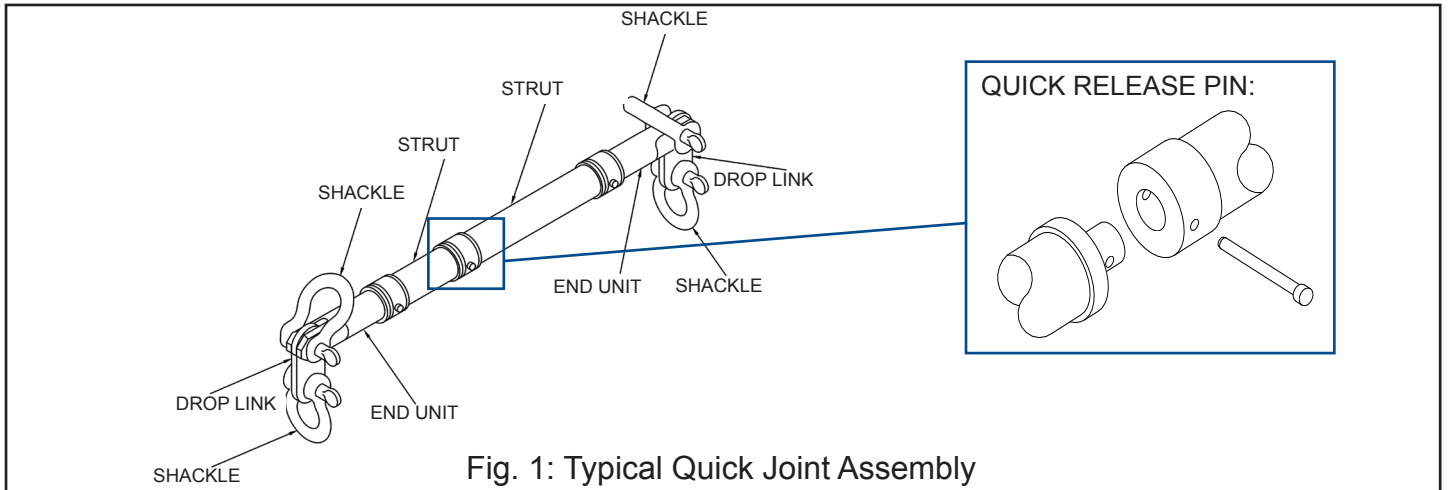
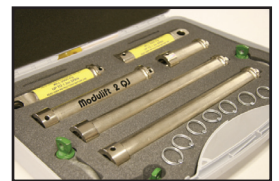


Fig. 1: Typical Quick Joint Assembly

**TABLE 1: COMPONENT LIST**

PART REF:	DESCRIPTION	WEIGHT/ITEM
P1	MALE END UNIT (150mm long)	925g
P2	FEMALE END UNIT (150mm long)	925g
P3	DROP LINK	100g
P4	300mm STRUT	840g
P5	200mm STRUT	640g
P6	100mm STRUT	420g
P7	2t SHACKLE	440g
P8	1.5t SHACKLE	250g
P9	QUICK RELEASE PINS	
P10	CASE	1.4kg



QJ2 - Beam specification.

- Rated at 2 tonnes SWL at 1.2 metres span..
- 'Sling to vertical' angle,  $\alpha$ , 45 degrees or less.
- End Units & Drop Links are rated at 1 tonnes WLL each (2 tonnes combined capacity).



**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 'Lifting Operations and Lifting Equipment Regulations 1998' (LOLER).
- 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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TABLE 2: Load v Span.

45° STV			Recommended Configuration. EU - End Unit (0.15m) STV = 'SLING TO VERTICAL' ANGLE, β					30° STV			
Span / mm	SWL / t	Min.Top Sling Length / m	EU	EU	EU	EU	EU	Span / mm	SWL / t	Min.Top Sling Length / m	
300	2	0.25	EU	EU				300	2	0.3	
400	2	0.28	EU	100	EU			400	2	0.4	
500	2	0.36	EU	200	EU			500	2	0.5	
600	2	0.43	EU	300	EU			600	2	0.6	
700	2	0.50	EU	300	100	EU		700	2	0.7	
800	2	0.57	EU	300	200	EU		800	2	0.8	
900	2	0.64	EU	300	300	EU		900	2	0.9	
1000	2	0.71	EU	300	300	100	EU	1000	2	1.0	
1100	2	0.78	EU	300	300	200	EU	1100	2	1.1	
1200	2	0.85	EU	100	300	300	200	EU	1200	2	1.2

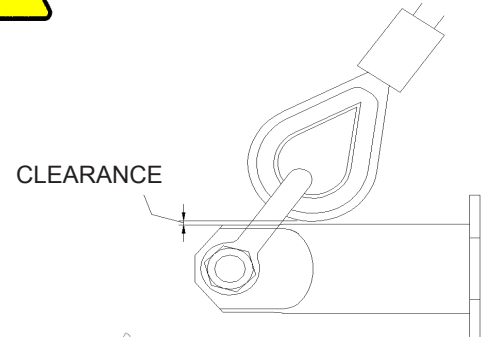
Recommended top sling types: Textile slings, wire rope slings with soft eyes and chain slings with small end fittings. If thimble eyes are used with wire rope slings, make sure sling angle is 30 degrees or less. Other types exist but not all are suitable due to end fitting size, particularly larger capacity chain hook and thimble eyes.

Note: Lengthening the slings can give greater clearance.  
**Refer to Modulift supplier if in doubt.**

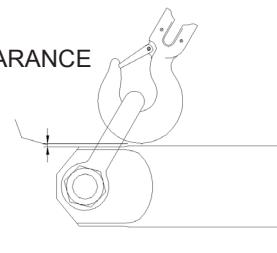


The rigger must ensure that there is a clearance between the sling end fitting and the end unit as shown.

CLEARANCE



CLEARANCE



- 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

### ASSEMBLY PROCEDURE.

1. Check the ID engravings on each Modulift component.
2. Connect struts and end units together by slotting the 'spigots' of each piece into the corresponding 'socket'.
3. Make sure all the connections are fully pushed in.
4. Secure each connection by pushing through a quick release pin.
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 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.
- Do not twist any slings unnecessarily.
- 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.



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.