

User Instructions

MOD 6

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 6 has an assembled span ranging from 400mm to 4.5 metres in 100mm increments.

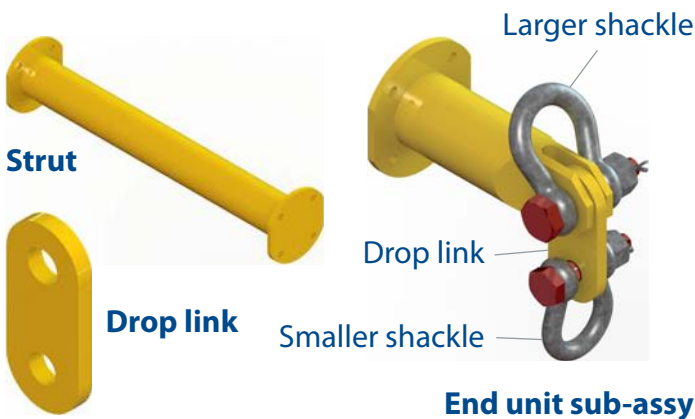
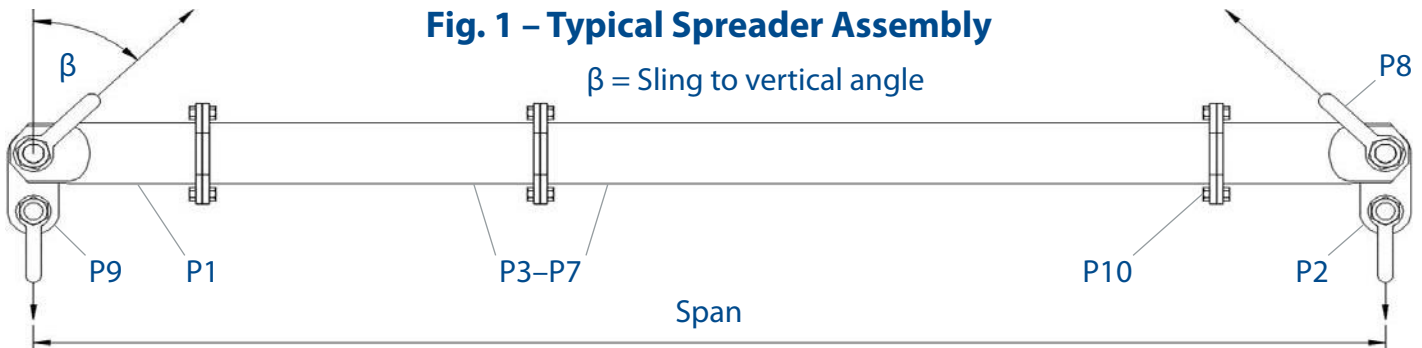


Table 1 – Component List

Part Ref.	Description	Weight/item
P1	End Unit	3.0kg
P2	Drop Link	0.6kg
P3	1000mm Strut	8.1kg
P4	600mm Strut	5.4kg
P5	300mm Strut	3.4kg
P6	200mm Strut	2.7kg
P7	100mm Strut	2.0kg
P8	4.75t Shackle	1.1kg
P9	3.25t Shackle	0.7kg
P10	M10 x 30, Grade 8.8, HT Bolts, Nuts & Washers	

MOD 6 Beam Specification

- Rated at 6 tonnes SWL at 3.6 metres span. (30° STV). See Load Table for SWL at longer spans.
- 'Sling to Vertical' angle, β , 45 degrees or less.
- End Units & Drop Links are rated at 3 tonnes WLL each (6 tonnes combined capacity).
- **Bolt tightening torque: 60Nm.** Spanner size required: 17mm.
- 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 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.

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 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.

MOD 6 UK JULY 2015
 © Copyright 2015 Modulift.
 All rights reserved.

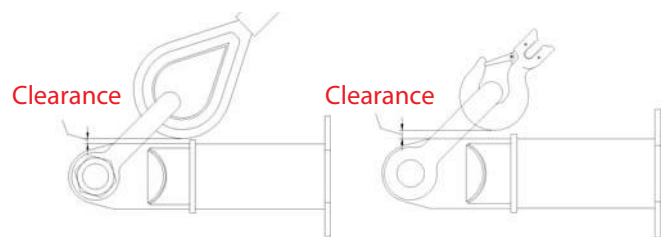
Should you find your equipment is no longer of use, please dispose of in a responsible manner. Please contact Modulift if you need further guidance



Table 2 – Load v Span

Span (m)	Sling To Vertical Angle (STV) β						Recommended Configuration EU - End Unit (0.2m)							
	45°		30°		20°									
	SWL (t)	Min. top sling length (m)	SWL (t)	Min. top sling length (m)	SWL (t)	Min. top sling length (m)								
0.4	6	0.2	6	0.4	6	0.5	EU	EU						
0.6	6	0.4	6	0.6	6	0.8	EU	0.2	EU					
0.8	6	0.5	6	0.8	6	1.1	EU	0.3	0.1	EU				
1.0	6	0.7	6	1.0	6	1.4	EU	0.6	EU					
1.2	6	0.8	6	1.2	6	1.7	EU	0.6	0.2	EU				
1.4	6	1.0	6	1.4	6	2.0	EU	1	EU					
1.6	6	1.1	6	1.6	6	2.3	EU	1	0.2	EU				
1.8	6	1.2	6	1.8	6	2.6	EU	1	0.3	0.1	EU			
2.0	6	1.4	6	2.0	6	2.9	EU	1	0.6	EU				
2.2	6	1.5	6	2.2	6	3.2	EU	0.6	1	0.2	EU			
2.4	6	1.7	6	2.4	6	3.5	EU	1	1	EU				
2.6	6	1.8	6	2.6	6	3.8	EU	1	1	0.2	EU			
2.8	6	1.9	6	2.8	6	4.1	EU	1	1	0.4	EU			
3.0	5	2.1	6	3.0	6	4.3	EU	1	1	0.6	EU			
3.2	4	2.2	6	3.2	6	4.6	EU	1	1	0.6	0.2	EU		
3.4	4	2.4	6	3.4	6	4.9	EU	1	1	1	EU			
3.6	3	2.5	6	3.6	6	5.2	EU	1	1	1	0.2	EU		
3.8	3	2.7	5	3.8	6	5.5	EU	1	1	1	0.4	EU		
4.0	3	2.8	5	4.0	6	5.8	EU	1	1	1	0.6	EU		
4.2	2	2.9	4	4.2	6	6.1	EU	1	1	1	0.6	0.2	EU	
4.4	2	3.1	4	4.4	6	6.4	EU	1	1	1	1	EU		
4.5	2	3.1	4	4.5	6	6.5	EU	1	1	1	1	0.1	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.

User Instructions

MOD 12

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 12 has an assembled span ranging from 0.5 metres to 6.5 metres in 0.25 metre increments.

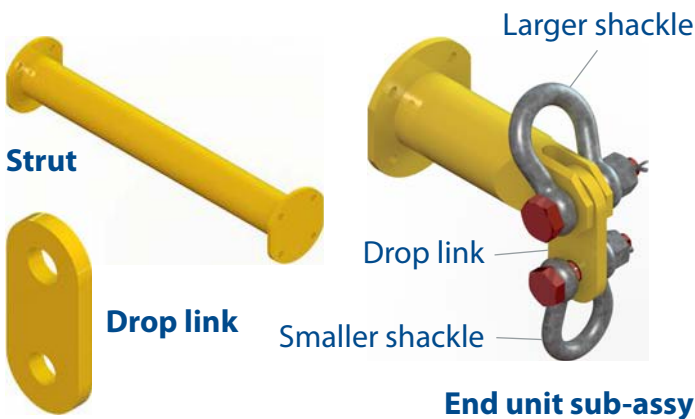
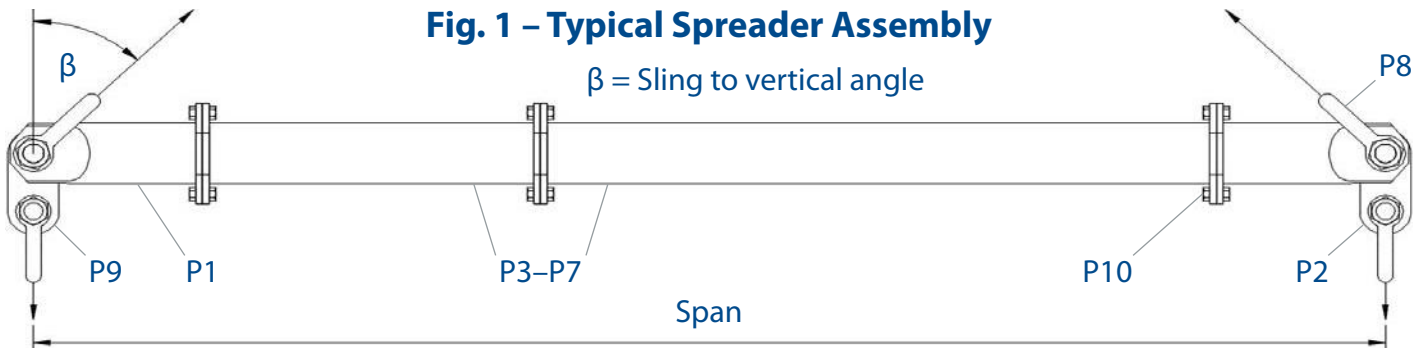


Table 1 – Component List

Part Ref.	Description	Weight/item
P1	End Unit	6kg
P2	Drop Link	1.3kg
P3	1.5m Strut	19kg
P4	1.0m Strut	14kg
P5	0.75m Strut	11kg
P6	0.5m Strut	8kg
P7	0.25m Strut	6kg
P8	8.5t Shackle	2.5kg
P9	6.5t Shackle	1.5kg
P10	M12 x 35, Grade 8.8, HT Bolts, Nuts & Washers	

MOD 12 Beam Specification

- Rated at 12 tonnes SWL at 4.75 metres span (30° STV). See Load Table for SWL at longer spans.
- 'Sling to Vertical' angle, β , 45 degrees or less.
- End Units & Drop Links are rated at 6 tonnes WLL each (12 tonnes combined capacity).
- **Bolt tightening torque: 90Nm.** Spanner size required: 19mm.
- 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 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.

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 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.

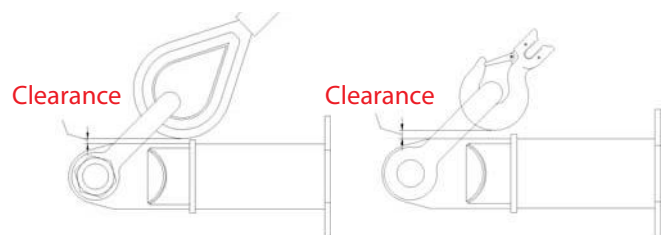
Note: Lengthening the slings can give greater clearance.
Refer to Modulift supplier if in doubt.



Table 2 – Load v Span

Span (m)	Sling To Vertical Angle (STV) β						Recommended Configuration EU - End Unit (0.25m)						
	45°		30°		20°								
	SWL (t)	Min. top sling length (m)	SWL (t)	Min. top sling length (m)	SWL (t)	Min. top sling length (m)							
0.50	12	0.3	12	0.4	12	0.7	EU	EU					
0.75	12	0.5	12	0.7	12	1.0	EU	0.25	EU				
1.00	12	0.6	12	0.9	12	1.4	EU	0.5	EU				
1.25	12	0.8	12	1.2	12	1.8	EU	0.75	EU				
1.50	12	1	12	1.4	12	2.1	EU	1	EU				
1.75	12	1.2	12	1.7	12	2.5	EU	1	0.25	EU			
2.00	12	1.4	12	1.9	12	2.9	EU	1.5	EU				
2.25	12	1.5	12	2.2	12	3.2	EU	1.5	0.25	EU			
2.50	12	1.7	12	2.4	12	3.6	EU	1.5	0.5	EU			
2.75	12	1.9	12	2.7	12	4.0	EU	1.5	0.75	EU			
3.00	12	2.1	12	2.9	12	4.3	EU	1.5	1	EU			
3.25	12	2.2	12	3.2	12	4.7	EU	1	1.5	0.25	EU		
3.50	12	2.4	12	3.4	12	5.1	EU	1	1.5	0.5	EU		
3.75	11	2.6	12	3.7	12	5.4	EU	1	1.5	0.75	EU		
4.00	10	2.8	12	3.9	12	5.8	EU	1	1.5	0.75	0.25	EU	
4.25	9	2.9	12	4.2	12	6.2	EU	1.5	1	1	0.25	EU	
4.50	8	3.1	12	4.4	12	6.5	EU	1.5	1	1	0.5	EU	
4.75	7	3.3	12	4.7	12	6.9	EU	1.5	1	1	0.75	EU	
5.00	6	3.5	11	4.9	12	7.3	EU	1.5	1	1	1	EU	
5.25	5	3.7	10	5.2	12	7.6	EU	1.5	1	1	1	0.25	EU
5.50	5	3.8	9	5.4	12	8.0	EU	1.5	1.5	1	1	EU	
5.75	4	4	8	5.7	12	8.3	EU	1.5	1	1	1	0.75	EU
6.00	4	4.2	7	5.9	12	8.7	EU	1.5	1	1	1	1	EU
6.25	4	4.4	7	6.2	11	9.1	EU	1.5	1.5	1.5	1	0.25	EU
6.50	3	4.5	6	6.4	10	9.4	EU	1.5	1.5	1	1	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.

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.

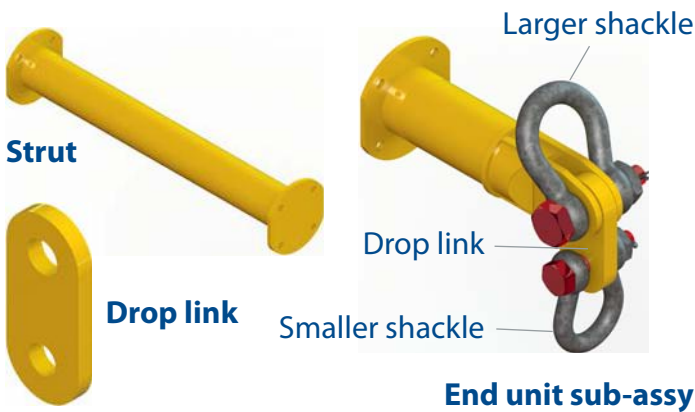
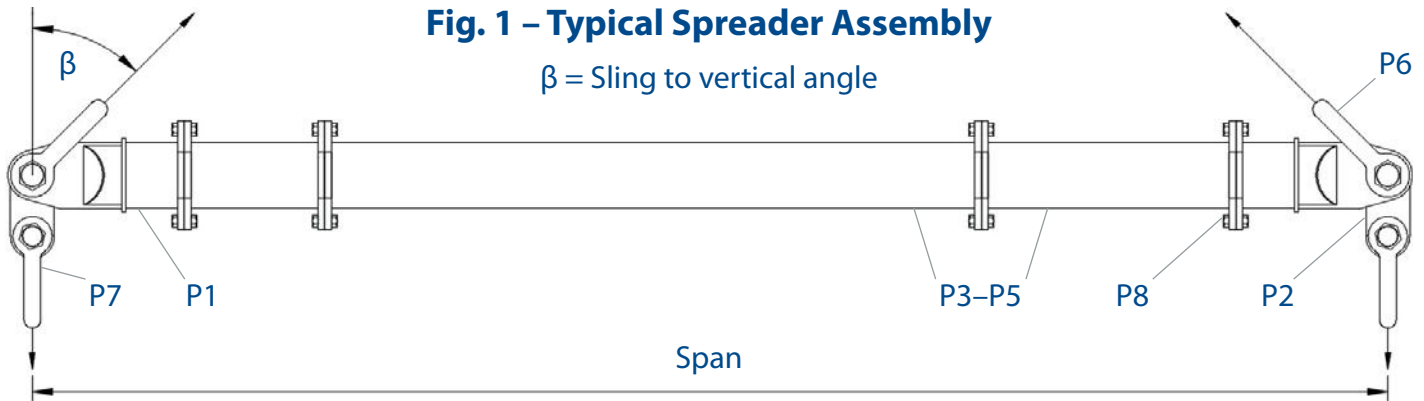


Table 1 – Component List

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 (30° STV). See Load Table for SWL at longer spans.
- 'Sling to Vertical' angle, β , 45 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 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.

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 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.

MOD 24 UK JULY 2015
 © Copyright 2015 Modulift.
 All rights reserved.

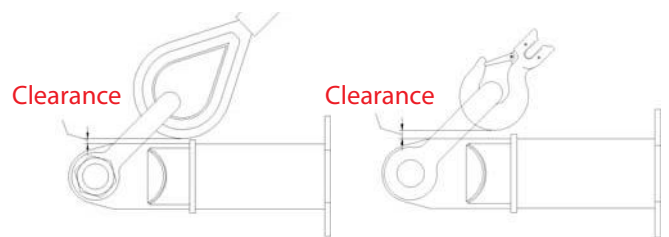
Should you find your equipment is no longer of use, please dispose of in a responsible manner. Please contact Modulift if you need further guidance



Table 2 – Load v Span

Span (m)	Sling To Vertical Angle (STV) β						Recommended Configuration EU - End Unit (0.5m)					
	45°		30°		20°							
	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.

User Instructions

MOD 34

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 34 has an assembled span ranging from 1 metre to 10 metres in 0.5 metre increments.

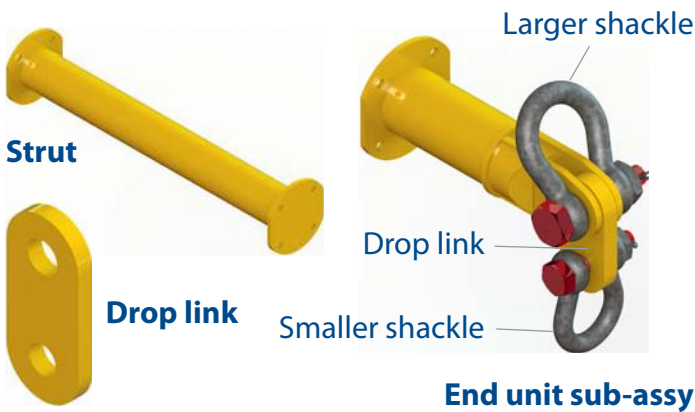
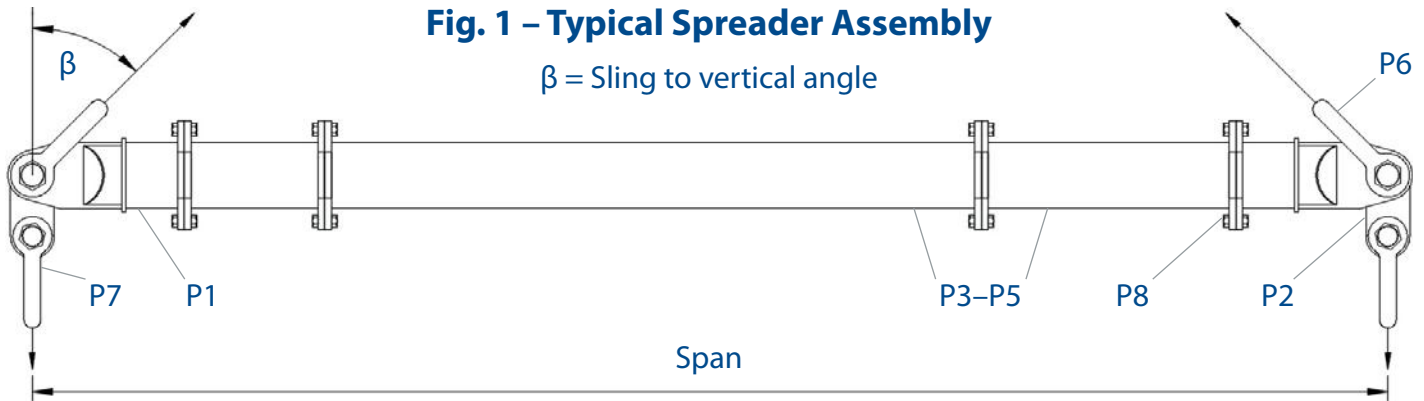


Table 1 – Component List

Part Ref.	Description	Weight/item
P1	End Unit	23kg
P2	Drop Link	7kg
P3	2.0m Strut	51kg
P4	1.0m Strut	31kg
P5	0.5m Strut	20kg
P6	25t Shackle	14kg
P7	17t Shackle	8kg
P8	M20 x 50, Grade 8.8, HT Bolts, Nuts & Washers	

MOD 34 Beam Specification

- Rated at 34 tonnes SWL at 6 metres span (30° STV). See Load Table for SWL at longer spans.
- 'Sling to Vertical' angle, β , 45 degrees or less.
- End Units & Drop Links are rated at 17 tonnes WLL each (34 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 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.

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 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.

MOD 34 UK JULY 2015
 © Copyright 2015 Modulift.
 All rights reserved.

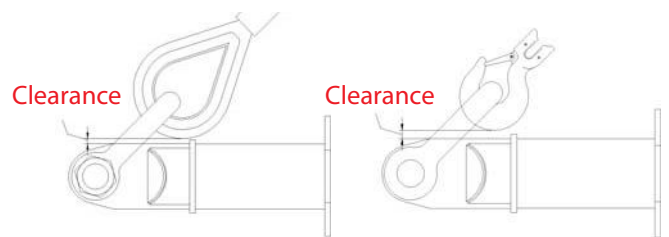
Should you find your equipment is no longer of use, please dispose of in a responsible manner. Please contact Modulift if you need further guidance



Table 2 – Load v Span

Span (m)	Sling To Vertical Angle (STV) β						Recommended Configuration EU - End Unit (0.5m)						
	45°		30°		20°								
	SWL (t)	Min.top sling length (m)	SWL (t)	Min.top sling length (m)	SWL (t)	Min.top sling length (m)							
1.0	34	0.6	34	0.8	34	1.3	EU	EU					
1.5	34	0.9	34	1.3	34	2.0	EU	0.5	EU				
2.0	34	1.3	34	1.8	34	2.8	EU	1	EU				
2.5	34	1.6	34	2.3	34	3.5	EU	1	0.5	EU			
3.0	34	2.0	34	2.8	34	4.2	EU	2	EU				
3.5	34	2.3	34	3.3	34	5.0	EU	2	0.5	EU			
4.0	34	2.7	34	3.8	34	5.7	EU	2	1	EU			
4.5	33	3.0	34	4.3	34	6.4	EU	0.5	2	1	EU		
5.0	28	3.4	34	4.8	34	7.2	EU	2	2	EU			
5.5	24	3.7	34	5.3	34	7.9	EU	2	2	0.5	EU		
6.0	20	4.1	34	5.8	34	8.6	EU	2	2	1	EU		
6.5	17	4.4	30	6.3	34	9.3	EU	0.5	2	2	1	EU	
7.0	15	4.8	26	6.8	34	10.1	EU	2	2	2	EU		
7.5	13	5.2	22	7.3	34	10.8	EU	0.5	2	2	2	EU	
8.0	11	5.5	20	7.8	32	11.5	EU	2	2	2	1	EU	
8.5	10	5.9	17	8.3	27	12.3	EU	2	2	2	1	0.5	EU
9.0	8	6.2	15	8.8	24	13.0	EU	2	2	2	2	EU	
9.5	7	6.6	13	9.3	21	13.7	EU	2	2	2	2	0.5	EU
10.0	6	6.9	12	9.8	19	14.5	EU	2	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.

User Instructions

MOD 50

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 50 has an assembled span ranging from 1 metre to 13 metres in 0.5 metre increments.

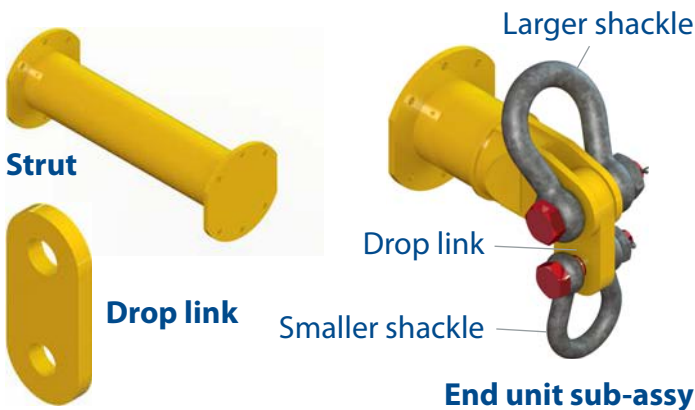
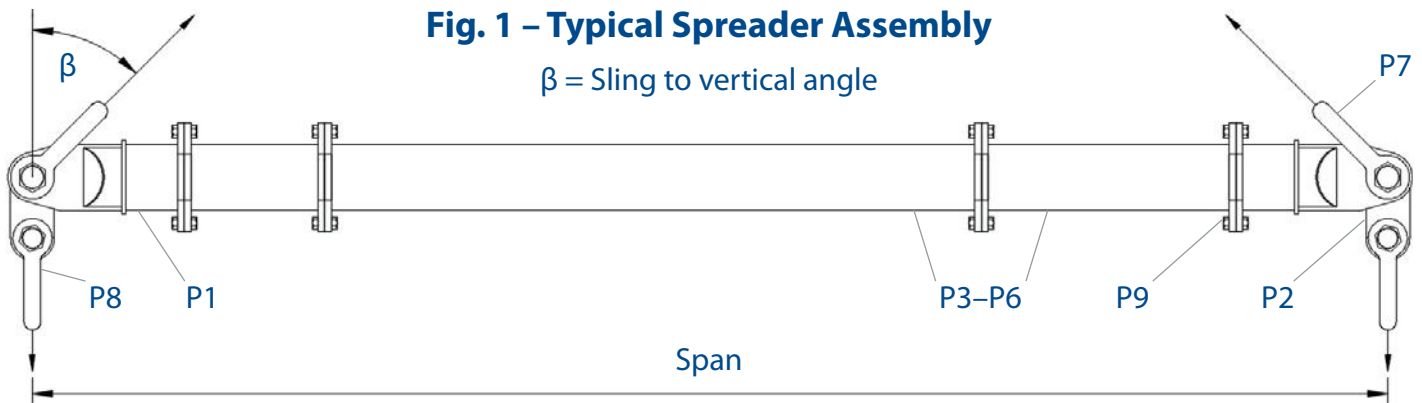


Table 1 – Component List

Part Ref.	Description	Weight/item
P1	End Unit	38kg
P2	Drop Link	11kg
P3	4.0m Strut	140kg
P4	2.0m Strut	82kg
P5	1.0m Strut	53kg
P6	0.5m Strut	38kg
P7	35t Shackle	20kg
P8	25t Shackle	14kg
P9	M20 x 65, Grade 8.8, HT Bolts, Nuts & Washers	

MOD 50 Beam Specification

- Rated at 50 tonnes SWL at 8 metres span (30° STV). See Load Table for SWL at longer spans.
- 'Sling to Vertical' angle, β , 45 degrees or less.
- End Units & Drop Links are rated at 25 tonnes WLL each (50 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 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.

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 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.

MOD 50 UK JULY 2015
 © Copyright 2015 Modulift.
 All rights reserved.

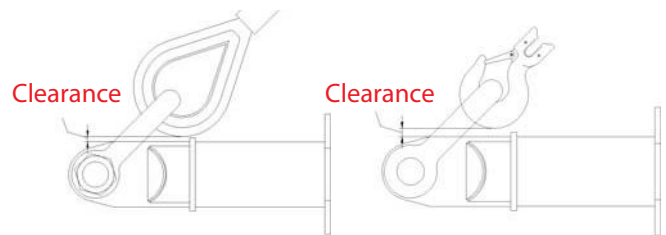
Should you find your equipment is no longer of use, please dispose of in a responsible manner. Please contact Modulift if you need further guidance



Table 2 – Load v Span

Span (m)	Sling To Vertical Angle (STV) β						Recommended Configuration EU - End Unit (0.5m)							
	45°		30°		20°									
	SWL (t)	Min. top sling length (m)	SWL (t)	Min. top sling length (m)	SWL (t)	Min. top sling length (m)								
1.0	50	0.5	50	0.8	50	1.3	EU	EU						
1.5	50	0.9	50	1.3	50	2.0	EU	0.5	EU					
2.0	50	1.2	50	1.8	50	2.7	EU	1	EU					
2.5	50	1.6	50	2.3	50	3.5	EU	1	0.5	EU				
3.0	50	1.9	50	2.8	50	4.2	EU	2	EU					
3.5	50	2.3	50	3.3	50	4.9	EU	2	0.5	EU				
4.0	50	2.7	50	3.8	50	5.7	EU	2	1	EU				
4.5	50	3.0	50	4.3	50	6.4	EU	0.5	2	1	EU			
5.0	50	3.4	50	4.8	50	7.1	EU	2	2	EU				
5.5	50	3.7	50	5.3	50	7.9	EU	2	2	0.5	EU			
6.0	50	4.1	50	5.8	50	8.6	EU	2	2	1	EU			
6.5	44	4.4	50	6.3	50	9.3	EU	0.5	2	2	1	EU		
7.0	39	4.8	50	6.8	50	10.1	EU	2	2	2	EU			
7.5	34	5.1	50	7.3	50	10.8	EU	0.5	2	2	2	EU		
8.0	30	5.5	50	7.8	50	11.5	EU	2	2	2	1	EU		
8.5	26	5.8	46	8.3	50	12.3	EU	0.5	1	4	2	EU		
9.0	24	6.2	42	8.8	50	13.0	EU	4	4	EU				
9.5	21	6.5	37	9.3	50	13.7	EU	4	4	0.5	EU			
10.0	19	6.9	34	9.8	50	14.4	EU	4	4	1	EU			
10.5	17	7.2	30	10.3	48	15.2	EU	1	4	4	0.5	EU		
11.0	15	7.6	26	10.8	43	15.9	EU	2	4	4	EU			
11.5	14	8.0	24	11.3	39	16.6	EU	4	4	2	0.5	EU		
12.0	12	8.3	22	11.8	35	17.4	EU	4	4	2	1	EU		
12.5	11	8.7	19	12.3	31	18.1	EU	4	4	2	1	0.5	EU	
13.0	10	9.0	18	12.8	28	18.8	EU	4	4	2	2	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.

User Instructions

MOD 70

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 70 has an assembled span ranging from 1 metre to 14 metres in 0.5 metre increments.

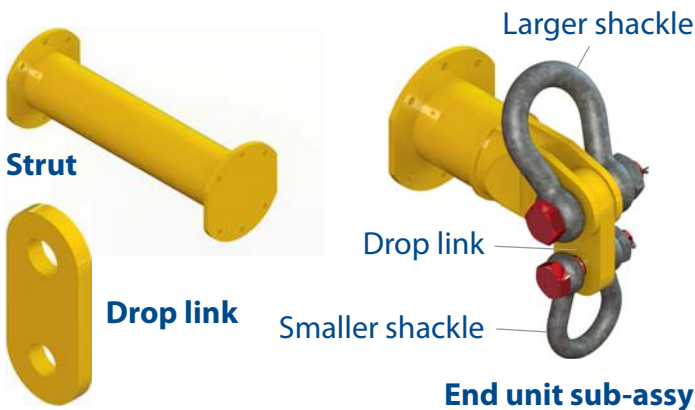
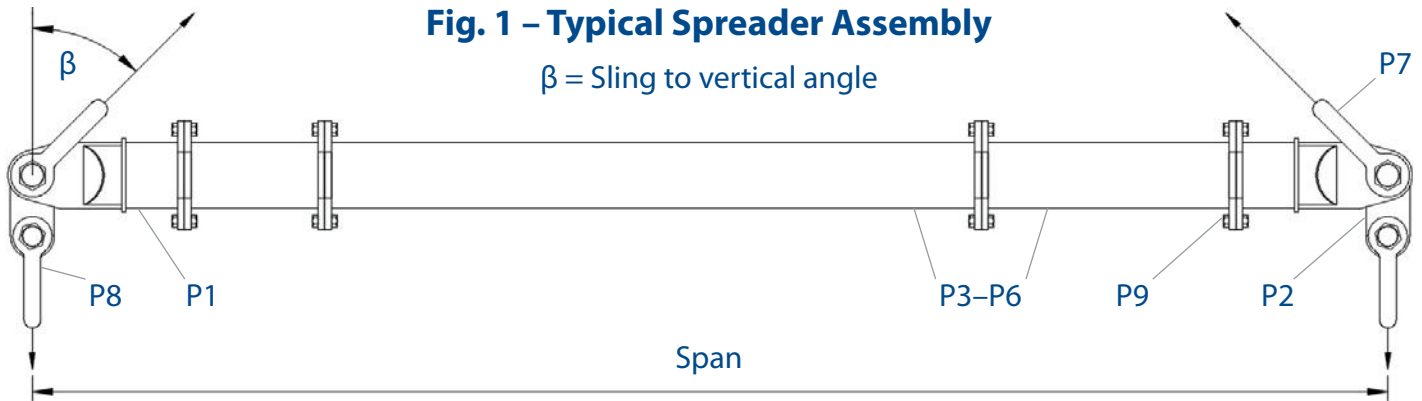


Table 1 – Component List

Part Ref.	Description	Weight/item
P1	End Unit	56kg
P2	Drop Link	17kg
P3	4.0m Strut	240kg
P4	2.0m Strut	136kg
P5	1.0m Strut	85kg
P6	0.5m Strut	61kg
P7	55t Shackle	40kg
P8	35t Shackle	20kg
P9	M20 x 65, Grade 8.8 HT Bolts, Nuts & Washers	

MOD 70 Beam Specification

- Rated at 70 tonnes SWL at 10.5 metres span (30° STV). See Load Table for SWL at longer spans.
- 'Sling to Vertical' angle, β , 45 degrees or less.
- End Units & Drop Links are rated at 35 tonnes WLL each (70 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 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.

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 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.

MOD 70 UK JULY 2015
 © Copyright 2015 Modulift.
 All rights reserved.

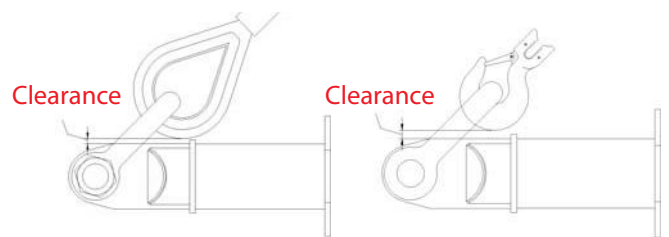
Should you find your equipment is no longer of use, please dispose of in a responsible manner. Please contact Modulift if you need further guidance



Table 2 – Load v Span

Span (m)	Sling To Vertical Angle (STV) β						Recommended Configuration EU - End Unit (0.5m)							
	45°		30°		20°									
	SWL (t)	Min.top sling length (m)	SWL (t)	Min.top sling length (m)	SWL (t)	Min.top sling length (m)								
1.0	70	0.5	70	0.8	70	1.2	EU	EU						
1.5	70	0.8	70	1.3	70	2.0	EU	0.5	EU					
2.0	70	1.2	70	1.8	70	2.7	EU	1	EU					
2.5	70	1.5	70	2.3	70	3.4	EU	1	0.5	EU				
3.0	70	1.9	70	2.8	70	4.1	EU	2	EU					
3.5	70	2.2	70	3.3	70	4.9	EU	2	0.5	EU				
4.0	70	2.6	70	3.8	70	5.6	EU	2	1	EU				
4.5	70	2.9	70	4.3	70	6.3	EU	0.5	2	1	EU			
5.0	70	3.3	70	4.8	70	7.1	EU	4	EU					
5.5	70	3.6	70	5.3	70	7.8	EU	4	0.5	EU				
6.0	70	4.0	70	5.8	70	8.5	EU	4	1	EU				
6.5	70	4.4	70	6.3	70	9.3	EU	0.5	4	1	EU			
7.0	70	4.7	70	6.8	70	10.0	EU	4	2	EU				
7.5	70	5.1	70	7.3	70	10.7	EU	0.5	4	2	EU			
8.0	68	5.4	70	7.8	70	11.5	EU	1	4	2	EU			
8.5	61	5.8	70	8.3	70	12.2	EU	0.5	1	4	2	EU		
9.0	55	6.1	70	8.8	70	12.9	EU	4	4	EU				
9.5	49	6.5	70	9.3	70	13.6	EU	4	4	0.5	EU			
10.0	44	6.8	70	9.8	70	14.4	EU	4	4	1	EU			
10.5	40	7.2	70	10.3	70	15.1	EU	1	4	4	0.5	EU		
11.0	36	7.5	64	10.8	70	15.8	EU	2	4	4	EU			
11.5	32	7.9	57	11.3	70	16.6	EU	2	4	4	0.5	EU		
12.0	29	8.2	49	11.8	70	17.3	EU	2	4	4	1	EU		
12.5	26	8.6	47	12.3	70	18.0	EU	4	4	2	1	0.5	EU	
13.0	24	9.0	43	12.8	69	18.8	EU	4	4	4	EU			
13.5	22	9.3	39	13.3	63	19.5	EU	4	4	4	0.5	EU		
14.0	20	9.7	36	13.8	57	20.2	EU	4	4	4	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.

User Instructions

MOD 70H

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 70H has an assembled span ranging from 1 metre to 14 metres in 0.5 metre increments.

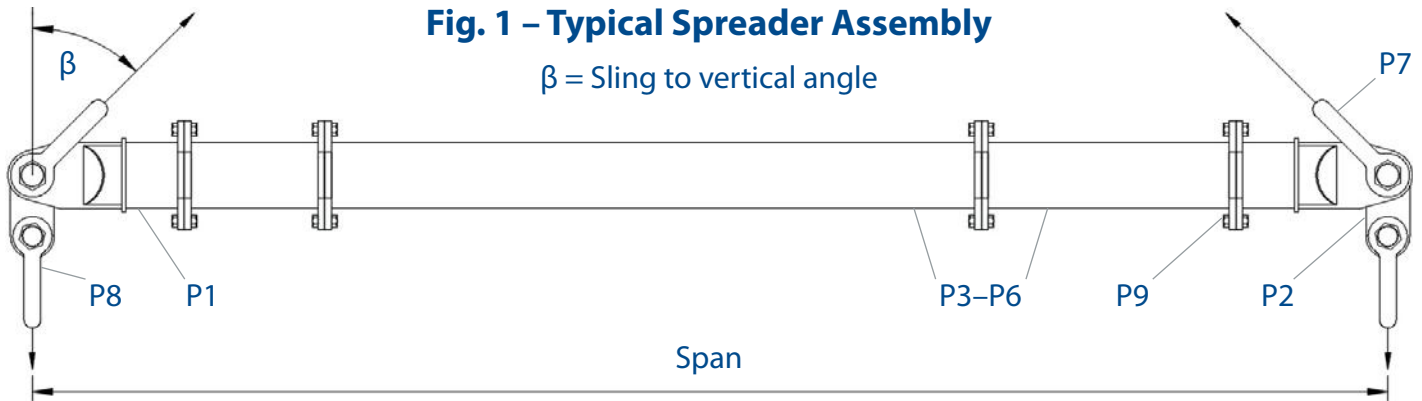


Table 1 – Component List

Part Ref.	Description	Weight/item
P1	End Unit	58kg
P2	Drop Link	32kg
P3	4.0m Strut	240kg
P4	2.0m Strut	136kg
P5	1.0m Strut	85kg
P6	0.5m Strut	61kg
P7	85t Shackle	62kg
P8	55t Shackle	40kg
P9	M20 x 65, Grade 8.8 HT Bolts, Nuts & Washers	

MOD 70H Beam Specification

- Rated at 100 tonnes SWL at 8.5 metres span (30° STV). See Load Table for SWL at longer spans.
- 'Sling to Vertical' angle, β , 45 degrees or less.
- End Units & Drop Links are rated at 50 tonnes WLL each (100 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 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.

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 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.

MOD 70H UK JULY 2015
 © Copyright 2015 Modulift.
 All rights reserved.

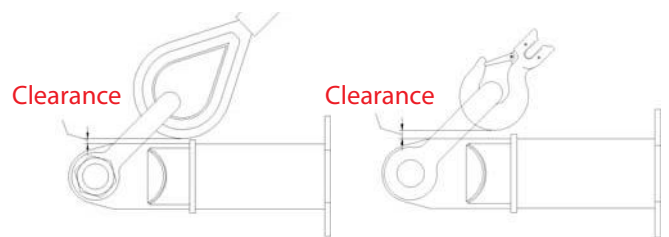
Should you find your equipment is no longer of use, please dispose of in a responsible manner. Please contact Modulift if you need further guidance



Table 2 – Load v Span

Span (m)	Sling To Vertical Angle (STV) β						Recommended Configuration						
	45°		30°		20°		EU - End Unit (0.5m)						
	SWL (t)	Min.top sling length (m)	SWL (t)	Min.top sling length (m)	SWL (t)	Min.top sling length (m)	EU	EU	EU	EU	EU	EU	
1.0	100	0.4	100	0.7	100	1.1	EU	EU					
1.5	100	0.7	100	1.2	100	1.9	EU	0.5	EU				
2.0	100	1.1	100	1.7	100	2.6	EU	1	EU				
2.5	100	1.4	100	2.2	100	3.3	EU	1	0.5	EU			
3.0	100	1.8	100	2.7	100	4.1	EU	2	EU				
3.5	100	2.2	100	3.2	100	4.8	EU	2	0.5	EU			
4.0	100	2.5	100	3.7	100	5.5	EU	2	1	EU			
4.5	100	2.9	100	4.2	100	6.3	EU	0.5	2	1	EU		
5.0	100	3.2	100	4.7	100	7.0	EU	4	EU				
5.5	100	3.6	100	5.2	100	7.7	EU	4	0.5	EU			
6.0	100	3.9	100	5.7	100	8.5	EU	4	1	EU			
6.5	96	4.3	100	6.2	100	9.2	EU	0.5	4	1	EU		
7.0	86	4.6	100	6.7	100	9.9	EU	4	2	EU			
7.5	77	5.0	100	7.2	100	10.6	EU	0.5	4	2	EU		
8.0	68	5.3	100	7.7	100	11.4	EU	1	4	2	EU		
8.5	61	5.7	100	8.2	100	12.1	EU	0.5	1	4	2	EU	
9.0	55	6.0	96	8.7	100	12.8	EU	4	4	EU			
9.5	49	6.4	86	9.2	100	13.6	EU	4	4	0.5	EU		
10.0	44	6.8	78	9.7	100	14.3	EU	4	4	1	EU		
10.5	40	7.1	70	10.2	100	15.0	EU	1	4	4	0.5	EU	
11.0	36	7.5	64	10.7	100	15.8	EU	2	4	4	EU		
11.5	32	7.8	57	11.2	92	16.5	EU	2	4	4	0.5	EU	
12.0	29	8.2	49	11.7	83	17.2	EU	2	4	4	1	EU	
12.5	26	8.5	47	12.2	75	18.0	EU	4	4	2	1	0.5	EU
13.0	24	8.9	43	12.7	69	18.7	EU	4	4	4	EU		
13.5	22	9.2	39	13.2	63	19.4	EU	4	4	4	0.5	EU	
14.0	20	9.6	36	13.7	57	20.1	EU	4	4	4	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.

User Instructions

MOD 110

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 110 has an assembled span ranging from 2 metres to 18 metres in 0.5 metre increments.

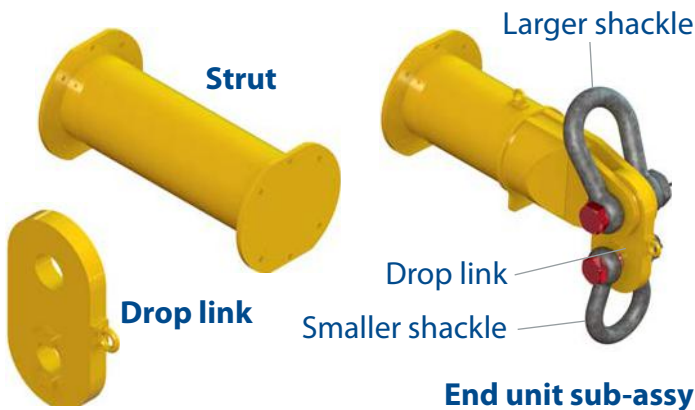
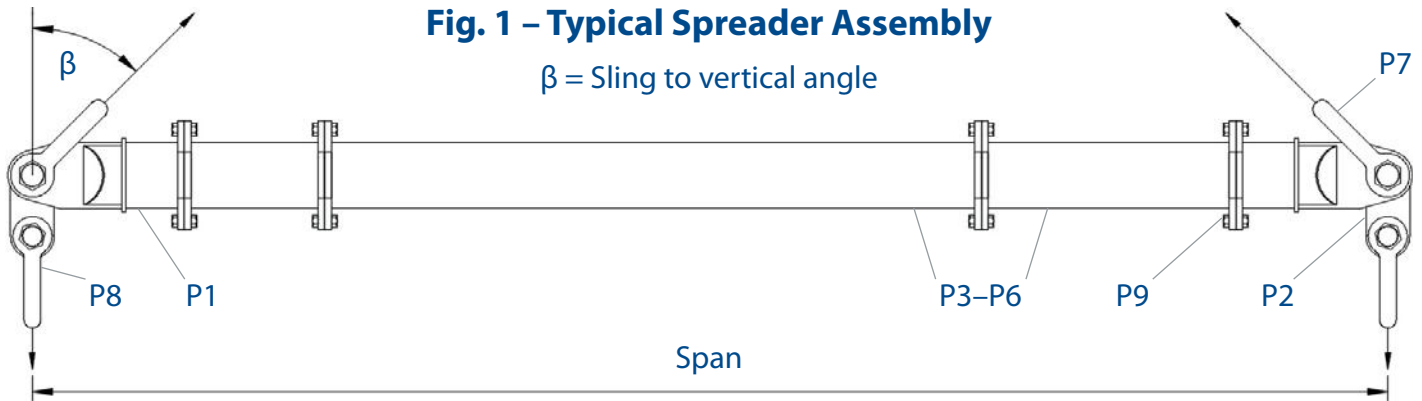


Table 1 – Component List

Part Ref.	Description	Weight/item
P1	End Unit	178kg
P2	Drop Link	45kg
P3	4.0m Strut	367kg
P4	2.0m Strut	212kg
P5	1.0m Strut	134kg
P6	0.5m Strut	96kg
P7	85t Shackle	62kg
P8	55t Shackle	40kg
P9	M20 x 65 Grade 8.8 HT Bolts, Nuts & Washers	

MOD 110 Beam Specification

- Rated at 110 tonnes SWL at 14 metres span (30° STV). See Load Table for SWL at longer spans.
- 'Sling to Vertical' angle, β , 45 degrees or less.
- End Units & Drop Links are rated at 55 tonnes WLL each (110 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 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.

User Instructions MOD 110

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 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.

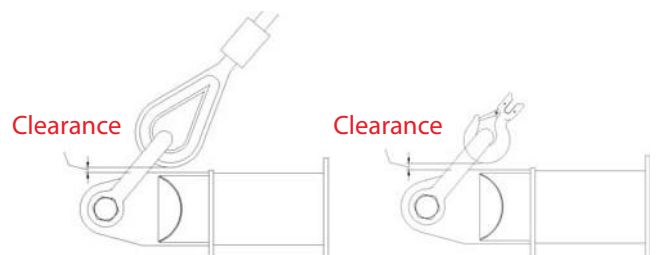
Note: Lengthening the slings can give greater clearance.
Refer to Modulift supplier if in doubt.



Table 2 – Load v Span

Span (m)	Sling To Vertical Angle (STV) β						Recommended Configuration							
	45°		30°		20°		EU - End Unit (1m)							
	SWL (t)	Min. top sling length (m)	SWL (t)	Min. top sling length (m)	SWL (t)	Min. top sling length (m)	EU	EU	EU	EU	EU	EU		
2.0	110	1.1	110	1.7	110	2.6	EU	EU						
2.5	110	1.4	110	2.2	110	3.3	EU	0.5	EU					
3.0	110	1.8	110	2.7	110	4.1	EU	1	EU					
3.5	110	2.2	110	3.2	110	4.8	EU	1	0.5	EU				
4.0	110	2.5	110	3.7	110	5.5	EU	2	EU					
4.5	110	2.9	110	4.2	110	6.3	EU	2	0.5	EU				
5.0	110	3.2	110	4.7	110	7.0	EU	2	1	EU				
5.5	110	3.6	110	5.2	110	7.7	EU	0.5	2	1	EU			
6.0	110	3.9	110	5.7	110	8.5	EU	2	2	EU				
6.5	110	4.3	110	6.2	110	9.2	EU	2	2	0.5	EU			
7.0	110	4.6	110	6.7	110	9.9	EU	2	2	1	EU			
7.5	110	5.0	110	7.2	110	10.6	EU	0.5	2	2	1	EU		
8.0	110	5.3	110	7.7	110	11.4	EU	2	2	2	EU			
8.5	110	5.7	110	8.2	110	12.1	EU	0.5	2	2	2	EU		
9.0	110	6.0	110	8.7	110	12.8	EU	2	2	2	1	EU		
9.5	110	6.4	110	9.2	110	13.6	EU	0.5	1	4	2	EU		
10.0	110	6.8	110	9.7	110	14.3	EU	4	4	EU				
10.5	110	7.1	110	10.2	110	15.0	EU	4	4	0.5	EU			
11.0	107	7.5	110	10.7	110	15.8	EU	4	4	1	EU			
11.5	98	7.8	110	11.2	110	16.5	EU	0.5	4	4	1	EU		
12.0	91	8.2	110	11.7	110	17.2	EU	2	4	4	EU			
12.5	84	8.5	110	12.2	110	18.0	EU	2	4	4	0.5	EU		
13.0	78	8.9	110	12.7	110	18.7	EU	2	4	4	1	EU		
13.5	72	9.2	110	13.2	110	19.4	EU	2	4	4	1	0.5	EU	
14.0	67	9.6	110	13.7	110	20.1	EU	4	4	4	EU			
14.5	61	9.9	108	14.2	110	20.9	EU	0.5	4	4	4	EU		
15.0	57	10.3	100	14.7	110	21.6	EU	4	4	4	1	EU		
15.5	52	10.6	92	15.2	110	22.3	EU	0.5	4	4	4	1	EU	
16.0	48	11.0	85	15.7	110	23.1	EU	4	4	4	2	EU		
16.5	44	11.3	79	16.2	110	23.8	EU	4	4	4	2	0.5	EU	
17.0	41	11.7	73	16.7	110	24.5	EU	4	4	4	2	1	EU	
17.5	38	12.1	67	17.2	108	25.3	EU	4	4	4	2	1	0.5	EU
18.0	35	12.4	60	17.7	101	26.0	EU	4	4	4	4	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: 6.
- Assemble longer struts in the centre of the spreader configuration.
- Sling angle is crucial to safe use of spreader.

User Instructions

MOD 110H

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 110H has an assembled span ranging from 2 metres to 18 metres in 0.5 metre increments.

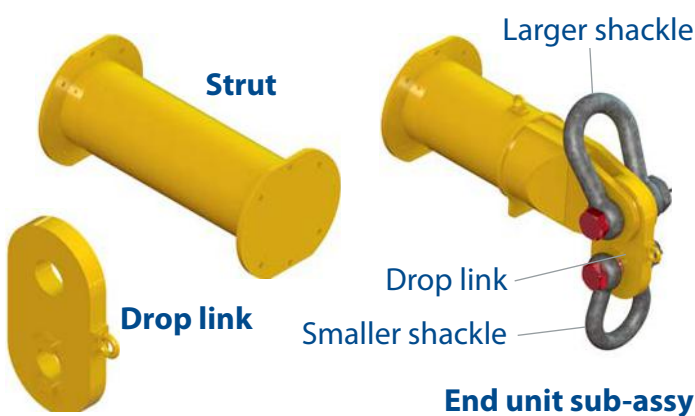
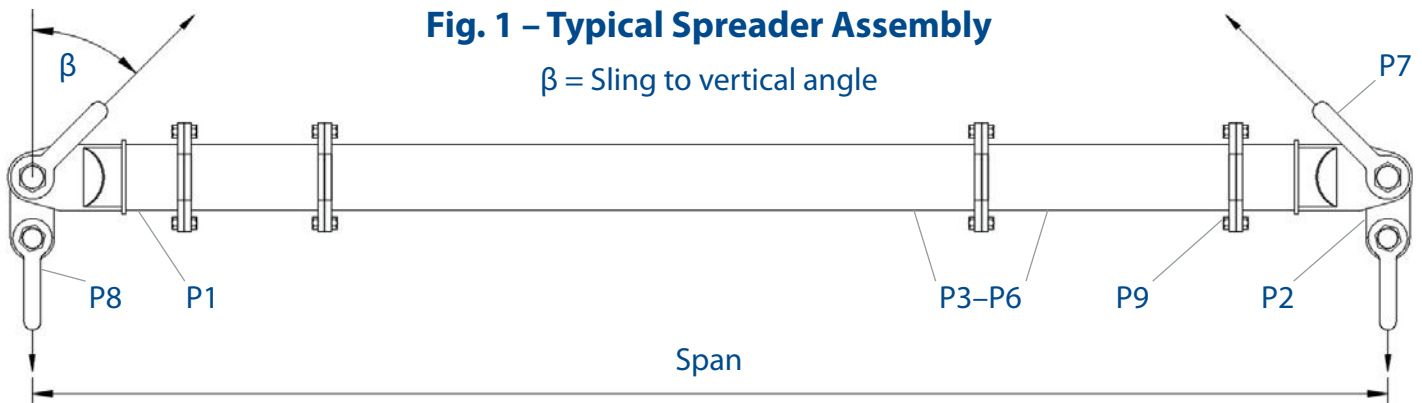


Table 1 – Component List

Part Ref.	Description	Weight/item
P1	End Unit	178kg
P2	Drop Link	55kg
P3	4.0m Strut	367kg
P4	2.0m Strut	212kg
P5	1.0m Strut	134kg
P6	0.5m Strut	96kg
P7	120t Shackle	110kg
P8	85t Shackle	62kg
P9	M20 x 65 Grade 8.8 HT Bolts, Nuts & Washers	

MOD 110H Beam Specification

- Rated at 170 tonnes SWL at 11.5 metres span (30° STV). See Load Table for SWL at longer spans.
- 'Sling to Vertical' angle, β , 45 degrees or less.
- End Units & Drop Links are rated at 85 tonnes WLL each (170 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 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.

User Instructions MOD 110H

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 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.

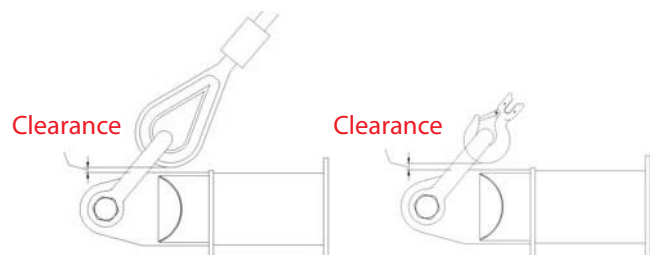
Note: Lengthening the slings can give greater clearance.
Refer to Modulift supplier if in doubt.



Table 2 – Load v Span

Span (m)	Sling To Vertical Angle (STV) β						Recommended Configuration								
	45°		30°		20°		EU - End Unit (1m)								
	SWL (t)	Min.top sling length (m)	SWL (t)	Min.top sling length (m)	SWL (t)	Min.top sling length (m)	EU	EU	EU	EU	EU	EU			
2.0	167	1.0	170	1.6	170	2.5	EU	EU							
2.5	167	1.4	170	2.1	170	3.3	EU	0.5	EU						
3.0	167	1.7	170	2.6	170	4.0	EU	1	EU						
3.5	167	2.1	170	3.1	170	4.7	EU	1	0.5	EU					
4.0	167	2.4	170	3.6	170	5.5	EU	2	EU						
4.5	167	2.8	170	4.1	170	6.2	EU	2	0.5	EU					
5.0	167	3.1	170	4.6	170	6.9	EU	2	1	EU					
5.5	167	3.5	170	5.1	170	7.6	EU	0.5	2	1	EU				
6.0	167	3.8	170	5.6	170	8.4	EU	2	2	EU					
6.5	167	4.2	170	6.1	170	9.1	EU	2	2	0.5	EU				
7.0	167	4.6	170	6.6	170	9.8	EU	2	2	1	EU				
7.5	167	4.9	170	7.1	170	10.6	EU	0.5	2	2	1	EU			
8.0	167	5.3	170	7.6	170	11.3	EU	2	2	2	EU				
8.5	158	5.6	170	8.1	170	12.0	EU	0.5	2	2	2	EU			
9.0	146	6.0	170	8.6	170	12.8	EU	2	2	2	1	EU			
9.5	134	6.3	170	9.1	170	13.5	EU	0.5	1	4	2	EU			
10.0	126	6.7	170	9.6	170	14.2	EU	4	4	EU					
10.5	116	7.0	170	10.1	170	15.0	EU	4	4	0.5	EU				
11.0	107	7.4	170	10.6	170	15.7	EU	4	4	1	EU				
11.5	98	7.7	170	11.1	170	16.4	EU	0.5	4	4	1	EU			
12.0	91	8.1	160	11.6	170	17.1	EU	2	4	4	EU				
12.5	84	8.4	147	12.1	170	17.9	EU	2	4	4	0.5	EU			
13.0	78	8.8	137	12.6	170	18.6	EU	2	4	4	1	EU			
13.5	72	9.1	126	13.1	170	19.3	EU	2	4	4	1	0.5	EU		
14.0	67	9.5	117	13.6	170	20.1	EU	4	4	4	EU				
14.5	61	9.9	108	14.1	170	20.8	EU	0.5	4	4	4	EU			
15.0	57	10.2	100	14.6	159	21.5	EU	4	4	4	1	EU			
15.5	52	10.6	92	15.1	147	22.3	EU	0.5	4	4	4	1	EU		
16.0	48	10.9	85	15.6	137	23.0	EU	4	4	4	2	EU			
16.5	44	11.3	79	16.1	126	23.7	EU	4	4	4	2	0.5	EU		
17.0	41	11.6	73	16.6	117	24.5	EU	4	4	4	2	1	EU		
17.5	38	12.0	67	17.1	108	25.2	EU	4	4	4	2	1	0.5	EU	
18.0	35	12.3	60	17.6	101	25.9	EU	4	4	4	4	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: 6.
- Assemble longer struts in the centre of the spreader configuration.
- Sling angle is crucial to safe use of spreader.