

# Modulift Spreader Beams

Modulift offer a wide range of Modular Spreader Beam components, offering a variety of different spans for all your lifting needs.

The sizes range from 2 to 5,000t with spans available from 0.4m/1'4" - 100m/300'.

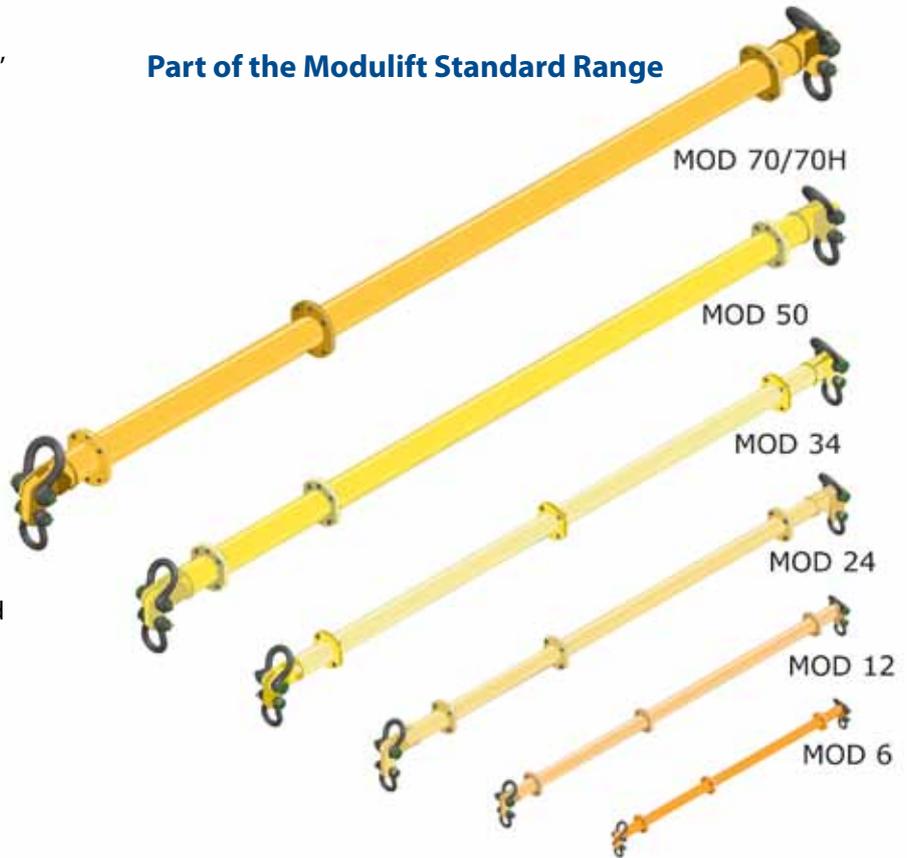
The flexibility of the modular configuration enables our Spreader Beams to be reused time and time again, providing a cost-effective solution.

## What Size Beam Do I Need?

Simple! First select the span you require, then select the SWL you need for that span.

Please see tables on pages 6 & 7 to select your beam.

## Part of the Modulift Standard Range



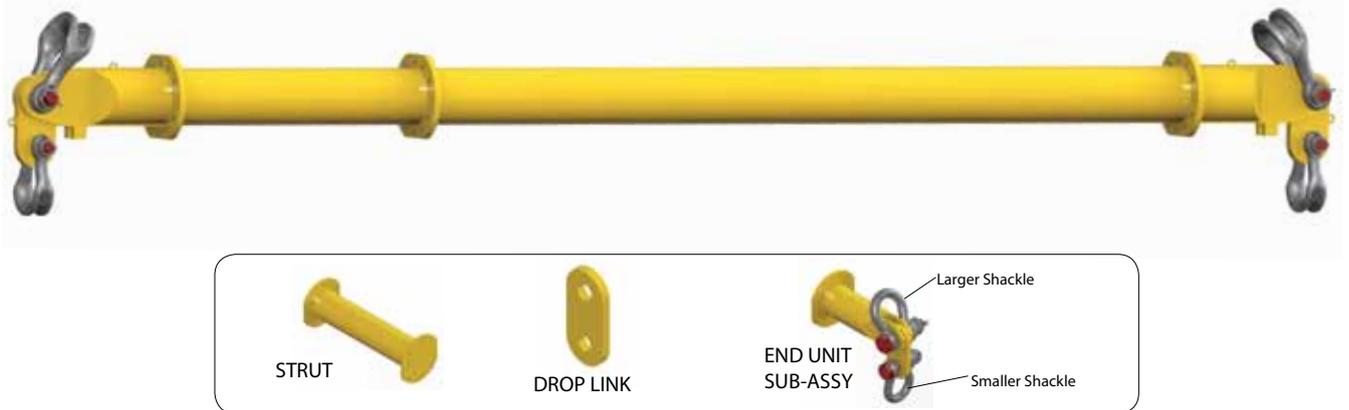
## Range Classification

# Modular Spreader Beams

Modular Spreader Beams provide the ideal solution for most lifting requirements – versatile and cost-effective, the Modulift range has capacity from 2 to 5000t with spans up to 100m/330'. The modular configuration and interchangeable components enable Modulift Spreaders to be reused over many lifts. Designed by our engineering experts and manufactured in our own specialist facilities; the Modulift range are the leading Modular Spreader Beams on the market.

Spreader Beams for up to 400t are in stock and available worldwide for distribution – please contact Modulift for an immediate quote or further details.

Every Modulift Modular Spreader Beam consists of a pair of End Units and a pair of Drop Links, with interchangeable struts that can be bolted into the assembly between the End Units to either lengthen or shorten the beam to suit the requirements of the lift, making them reusable at different spans.



## Why Modulift is the leading Spreader Beam on the Market?

<b>Quality Engineering</b>	Modulift are a team of specialist engineers designing innovative products to optimum specification to ensure a safe lifting environment around the world.
<b>Interchangeable</b>	The modular struts allow for multiple lengths to be configured for a variety of lifts. Mix and match End Units with struts when long length, yet light weight lifts are required.
<b>Economical</b>	One Modulift Spreader Beam can be used over and over again for years.
<b>Portable</b>	Our heaviest and longest strut is only 6m/20' – small enough for the back of a truck! Many of our Spreader Beam components can be handled by one person. Our QJ2 even comes in a handy carrying case complete with Shackles!
<b>Lightweight</b>	Our Spreader Beams are specially designed to provide you with a lightweight solution so your cranes can work at maximum capacity without the weight of heavy lifting gear.
<b>Easy to Store and Transport</b>	For improved inventory control, organized components, quick retrieval and mobilization, ask about our storage systems, including logistics cradles and stillages.
<b>Adaptability</b>	Drop Links provide plus or minus 6° of rotation to allow for lower sling misalignment.
<b>Quick Ship</b>	Call us today – we have most standard sizes in stock and ready to ship!
<b>Custom Applications</b>	Have one of our engineers custom design a Spreader Beam for virtually any lift. Please ask a member of our team about this service.

# One Beam Many Lifts

## Interchangeable Components

### For Larger Lighter Loads

For longer spans and lighter loads, additional components are available allowing you to optimise the weight of our higher capacity range of Modular Spreader Beams to carry out these lifts. These struts provide the backbone of our Spreader Beams when trying to achieve longer spans. We have two solutions that can make the system more flexible and cheaper for you by interchanging smaller capacity End Units and Drop Links.

- Step-Down End Units are designed for smaller sizes, up to the MOD 70
- Cone Adaptors accommodate the larger sizes

These additional components allow your existing Spreader Beam to become even more versatile over a number of lifts so you can remain cost-effective with your rigging and crane capacity requirements.

By stepping down the End Units to a more suitable capacity, you can optimise your Shackles and Slings to provide a lighter system overall.

There are a number of ways you can utilise our Modular Spreader Beams, for example;

**Need a span of 20m/66' but are only lifting 70t** - we can provide you with a MOD 250/70 giving you Cone Adaptors and MOD 70 End Units to bolt to MOD 250 struts to achieve the required overall Spreader Beam system.

**Need to lift 24t but at 12m/40'** - change our standard MOD 70 Spreader Beam End Units to Step-Down End Units and decrease the SWL to 24t allowing you to use smaller Shackles and Slings with the MOD 70 struts.

**Need to lift 100t** - if you already have a MOD 70 Spreader Beam, by changing the End Units to the MOD 70H End Units you can increase the SWL to 100t negating the need to buy a completely brand new Spreader Beam.

**Using one of our Modular Spreader Beams enables you to be more flexible over a number of lifts without needing to buy a new Spreader Beam every time, our lightweight design also minimises the overall weight of the lifting equipment and the costs incurred whilst working between the hook and the load.**



## CMOD Spreader Frames

# Modulift Modular Spreader Frames work with existing struts from our Modular Spreader Beam range

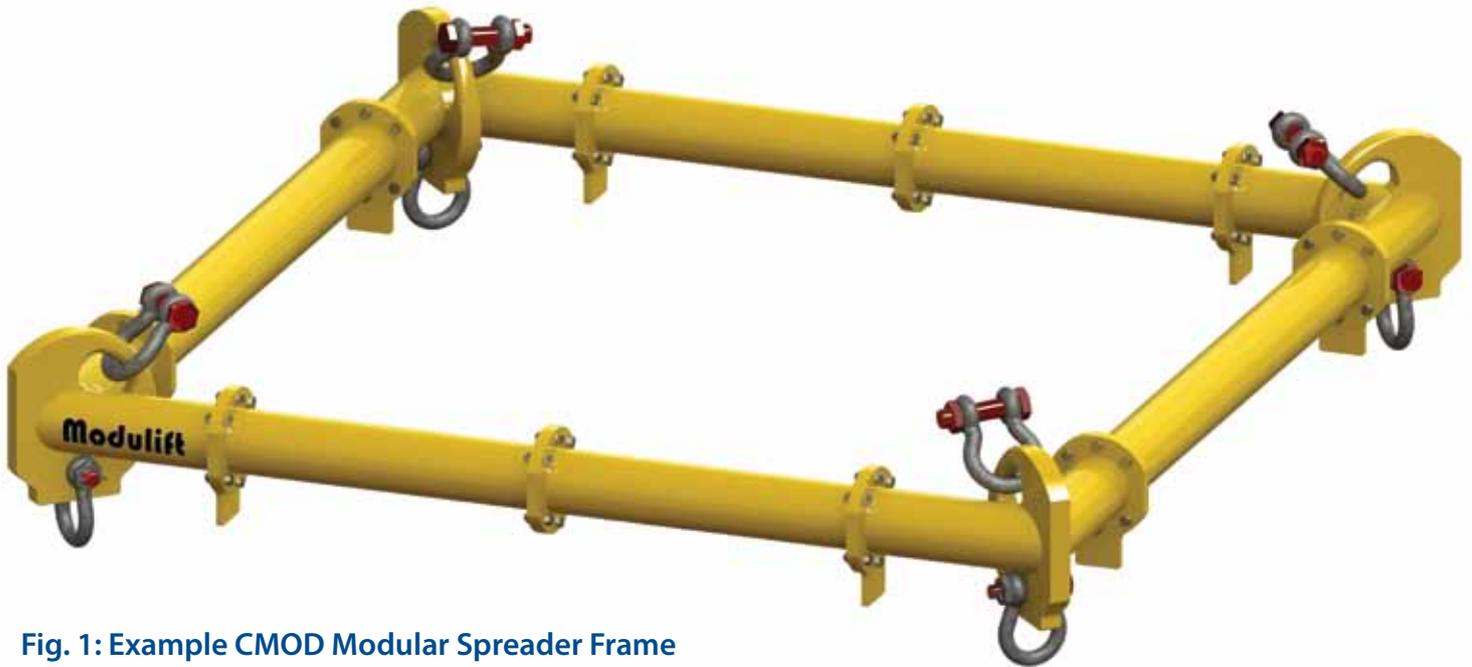


Fig. 1: Example CMOD Modular Spreader Frame

**Modulift, the market leaders in Spreader Beam design and manufacture**, have extended their modular offering, by launching the CMOD Modular Spreader Frame! A truly adaptable frame that maintains its engineering principles as its configuration adapts. Designed with ease and economy in mind - the CMOD is simple to set up, manoeuvre, and reconfigure to any size frame - allowing for multiple uses and diverse application.

The CMOD is a modular frame utilising Corner Units which are compatible with our existing Spreader Beam Struts and is modular in length and width. Every CMOD Spreader Frame consists of 4 x Corner Units, with intermediate Struts that can be bolted into the assembly to achieve different spans. Existing customers can adapt their Spreader Beam into a frame, by simply bolting on the corresponding Corner Units and any additional Struts required.

Even the largest CMOD can be easily transported as the frame is broken down into modular parts, saving the cost of specialist transportation.



### System Benefits

- Cheaper and easier to transport than a fixed system
- Easy to set up, handle and manoeuvre
- Re-configure the frame to any size to allow for multiple uses
- The corner plate has a bow (like the shackle). This means that a reversed Shackle can contact the plate 'bow to bow' allowing it to easily rotate to suit any angle of sling and setup of frame without de-rating the Shackle

### Design Strengths

The plate is made of high strength carbon steel and is specifically designed to withstand any bending, and transfers the compression to the strut in an almost purely axial form. The system was designed to BS EN 13155 – Non Fixed Lifting Load Attachments and the method of Shackle connection has been approved by Van Beest.

### CMOD T-pieces

Elaborating on this popular concept Modulift has now developed a T-Piece to work in conjunction with the CMOD. This allows the frame to become a 6-point lift, (8-point, 10-point and so forth on request) adding yet another dimension to your Modulift equipment. Spans of up to 40m x 16m and capacities of up to 200t are available as standard.



# Modulift - Lifting Experts

Fig 1

Fig 1: Lifting and positioning of the pedestrian footbridge that connects Wembley Stadium to the train station



Fig 2



Fig 2: '1 over 2' rig formation used in Oil Refinery building project

Fig 3: Skid being lifted by 2 x Spreader Beams and a single Lifting Beam

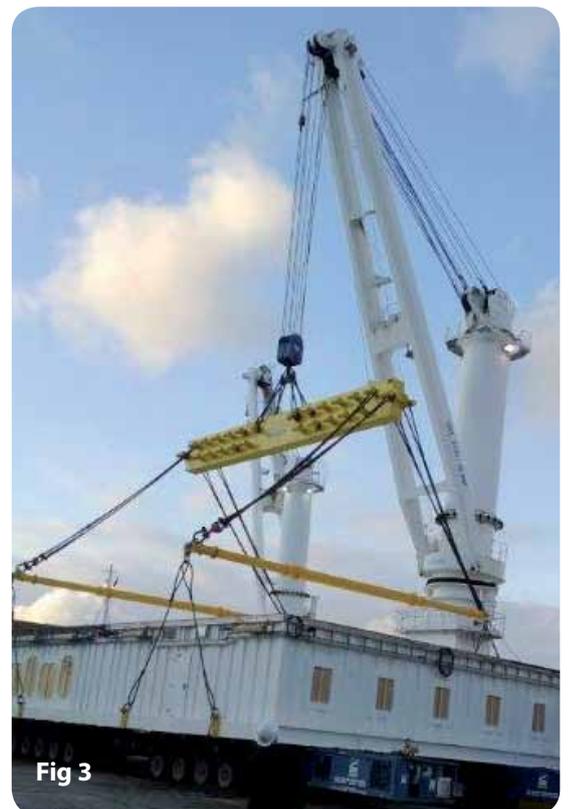


Fig 3

# Engineering Consultancy

With over 20 years experience, Modulift's team of Lifting Engineers are able to provide expert advice in all aspects of onshore and offshore lifting. We can also provide a custom designed and engineered lifting solution for all your lifting requirements.

## Engineering Consultancy

Whether you require advocacy in safe and effective procedures for the use of heavy lifting equipment or need RFID training to enable you to remotely take complete control over your assets, Modulift are here to help.

## Custom Design Services

Not every load fits into a standard lifting mould. Our team of engineers are lifting industry experts capable of coming up with the ideal solution for your lifting requirements. With innovative thinking we can develop the right equipment to meet your needs whether they be height, environment, price, weight, flexibility of use, speed of assembly or transportation requirements to name but a few - we can design a solution for you.

## Rig Design

When dealing with customers who require lifts that involve more complex rigs and combinations of Modulift Spreader Beams or where the item being lifted does not have a central centre of gravity, our customers can call on our assistance. We will make available our engineering team who will assist by designing the most appropriate solution using the Modulift range of products.

## Services Available

- Engineering Design
- Lifting Consultancy
- RFID Project Management
- Engineering Drafting
- Rig Planning Services
- Lifting and Rigging Training
- Contract Lifting Management and Site Supervision



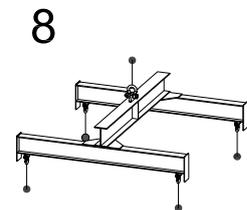
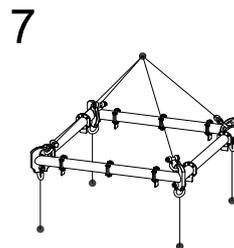
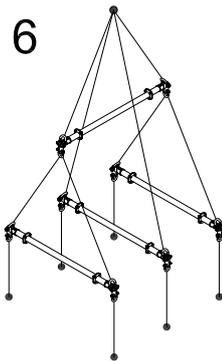
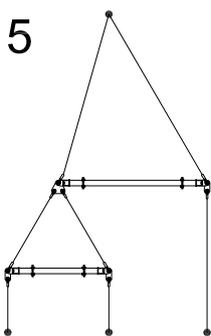
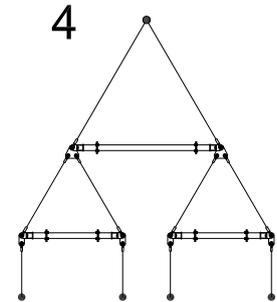
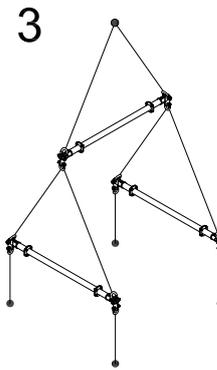
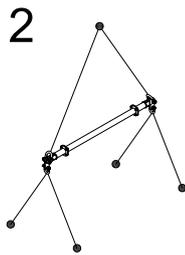
## Why Use Modulift?

- All our equipment conforms to the highest engineering standards and meets or exceeds government and industry regulations such as AS 4991 - 2004 and BS13155, and Lifting Operations and Lifting Equipment Regulations 1998 (LOLER)
- Modulift have ISO 9001: 2008, 14001:2004 & 18001:2007 and are members of LEEA
- Using a specialist engineering company gives you peace of mind for a safe lift with engineers on hand to ensure everything runs smoothly
- We can design a solution specifically designed for your needs minimising potential problems associated with using incorrect equipment
- Reduced costs associated with: over engineering; excessive design times, individual fabrication requirements, testing and liability insurance; and damaged loads

# Rig Planning Services

At Modulift we understand that organising a lift can be a complicated process with many factors that need to be considered. On top of all the other considerations is the rig planning for the lift. With our highly trained specialist Lifting Engineers, Modulift can help you.

It may be a simple configuration or it may be a more complicated rig. Send us details of your lift including weight, lifting point and position, height restrictions, load type, centre of gravity (COG) position, crane type and lifting environment and we can help advise the best solution for you.



Our in-house engineers, can design and manufacture a custom solution for all your lifting needs!

## Your Guide to Some of the Configurations Available to You

### 1. Simple Single Beam 2 point Lift

A single Spreader Beam is the simplest configuration and is suitable for 2 point lifts. The Spreader Beam absorbs the compression forces to protect the load being lifted.

### 2. Single Beam 4 Point Lift

This configuration again used a single beam where the load being lifted has four individual lifting points.

### 3. 1-Over-2 Rig

We use this configuration when vertical slings are essential for 4 point lifts. By varying the sling lengths, we can also take into account an offset center of gravity.

### 4. 1-Over-2 Inline Rig

Ideal for those lifts where the span is long and potential bending of the load is a problem. Further cascading layers are available to increase the number of lifting points

### 5. 1-Over-1

Where there are an uneven number of points to lift from a 1 over 1 system can be used to lift the load whilst still providing a balanced rig.

### 6. Various Multi Spreader Beam Rigs

With our expert help we can address most lifting issues using a combination of our products to fit the application and the circumstances.

### 7. CMOD Spreader Frame

The CMod spreader frame uses corner units to connect existing Modulift struts into a 4 point modular spreader frame. This uses less headroom than a 1 over 2 rig.

### 8. Lifting Frame (H Frame)

For extremely low headroom applications, Modulift can design and fabricate a bespoke lifting frame to suit your exact requirements