

Loop the chain over the sprocket wheel ensuring the chain is tangle-free and hangs clear of any obstruction.

The clamp or trolley should now be ready to use. However do double-check that all the catch pins or adjustment bars are correctly secured before the equipment is used.

## BASIC TECHNIQUES

Before lifting ensure the load is free and not restrained by fixing bolts etc.

Lift the load a nominal distance to check balance and security of the load.

Use tag lines to control long or bulky loads.

Once raised lower as soon as possible. **DO NOT** leave the load suspended or unattended for any reason.

**Adjustable Girder Clamp...**

Attach lifting equipment to the clamp using either a 'D' shackle or the lifting equipment's own hook. If a hook is used, make sure the hooks gate closes correctly before use.

As the Girder Clamp is designed for use in a fixed position, make sure the clamp is positioned over the centre of the load.

**Girder Trolley...**

Attach lifting equipment to the trolley using either a 'D' shackle or the lifting equipment's own hook. If a hook is used, make sure the hooks gate closes correctly before use.

Line the trolley over the load as centrally as possible before attempting to raise it.

The Girder trolley can be moved along the beam manually, this is usually achieved by pushing the suspended load.

Do not move the load at speed, ensure that any movement can be fully controlled.

**Chain Travel Trolley...**

Attach lifting equipment to the trolley using either a 'D' shackle or the lifting equipment's own hook. If a hook is used, make sure the hooks gate closes correctly before use.

The Chain Travel Trolley can be moved along the beam by pulling one of the chain sections manually.

Line the trolley over the load as centrally as possible before attempting to raise it.

Do not move the load at speed, ensure that any movement can be fully controlled.

## EQUIPMENT CARE

Never push the equipment beyond its design limits. If it will not do what you want with reasonable ease and speed, assume you have the wrong tool for the job. Contact your local HSS Lift & Shift Depot for advice.

Regularly inspect the beam for signs of damage and deterioration. Pay special attention to signs of cracks, nicks and gouging.

Regularly check the equipment for signs of damage and wear and tear.

Keep the equipment clean, you will find this less of a chore if you clean it regularly, rather than wait until the end of the hire period.

When not in use, store the equipment somewhere clean, dry and safe from thieves and unauthorised users.

## FINISHING OFF

Remove any lifting equipment from the clamp or trolley, then remove the clamp or trolley from the beam by reversing the instructions in 'GETTING STARTED'.

Give the equipment a final clean up ready for return, to your local HSS Lift & Shift Depot.



## ...any comments?

If you have any suggestions to enable us to improve the information within this guide please fax your comments or write to the Product Manager at the address below

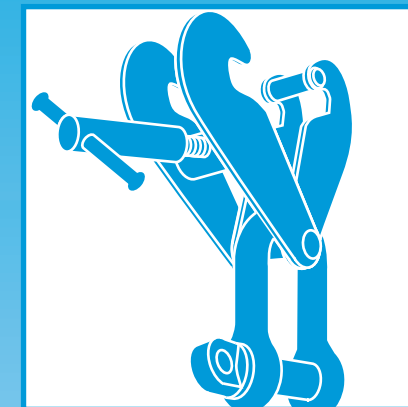
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# HSS Lift & Shift



# Girder Trolleys & Girder Clamps

For use on mobile gantries and tested 'T' section profiles, providing either a fixed or moving suspension point.




# GENERAL SAFETY




For advice on the safety and suitability of this equipment contact your local HSS Lift & Shift Depot.


There is a serious risk of personal injury if you do not follow all instructions laid down in this guide.


This equipment is designed to be used by an able bodied, competent adult who has read and understood these instructions. Anyone with either a temporary or permanent disability should seek expert advice before using it.


Keep children, animals and bystanders away from the work area. Cordon off a NO GO area using cones and either barriers or tape, available for hire from your local HSS Lift & Shift Depot.


 Never use this equipment if you are ill, feeling tired, or under the influence of alcohol or drugs.

   Wear practical, protective clothing, gloves, footwear and a protective hard hat. Avoid loose garments and jewellery that could catch in moving parts, tie back long hair.

 This equipment is heavy, never attempt to lift it yourself, always get help.

 Prevent hook overcrowding, with a 'Bow' shackle. Join lifting equipment with a 'D' shackle. Protect sharp edges to prevent load damage.

 Use this equipment for vertical lifts only and use on a level area able to take the combined weight of the load and the equipment.

 Ensure the load is balanced, stable and that personnel stand clear of the raised load.

Make sure you know how to operate this equipment safely and are aware of its limitations before you use it.

It is both the hirer's and the operator's responsibility to perform a risk assessment before using this equipment. You are also responsible for the safety of any person in the work area.

Make sure that anyone in the immediate work area is warned of what you are doing.

# SAFETY WARNING

This equipment **MUST NOT** be used to carry or lift personnel.

Do not shock load this equipment.  
Never leave the equipment loaded or unattended.

Make sure the landing area is unobstructed and able to accept the load in size and weight.

Use this type of equipment only on structures that are able to bear its weight and its load.

Never exceed the equipment's safe working load, see chart.

Comm Code	SWL (kg)	Beam Flange Size
Adjustable Girder Clamp		
69323	3,000	75 – 210mm
69325	2,000	75 – 210mm
69326	5,000	75 – 305mm
69327	10,000	75 – 305mm
69330	10,000	200 – 457mm
Girder Trolley		
69331	1,000	75 – 190mm
69332	2,000	64 – 203mm
69333	3,000	75 – 190mm
69335	5,000	75 – 254mm
69336	6,000	100 – 315mm
69338	10,000	100 – 315mm
Chain Travel Trolley		
69342	2,000	82 – 113mm

Check the condition of the equipment before use. If it shows signs of damage or excessive wear, return it to your local HSS Lift & Shift Depot.

# GETTING STARTED

Take the unit to the area where it is required and double check the following...

1. The Clamp or Trolley you have hired is rated at the SWL required for the job.
2. The Clamp or Trolley is the correct size for the suspension point, i.e. beam flange size. A range of sizes are available, contact your local HSS Lift & Shift Depot for advice.
3. The suspension point is straight, level and offers adequate headroom.
4. The suspension point has been tested and is capable of supporting the equipment and its load.

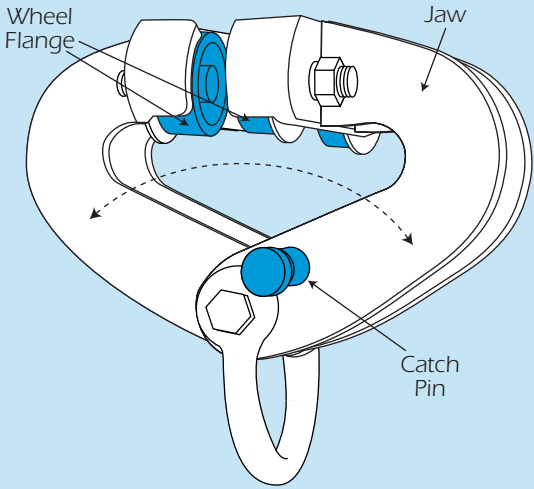
Additional checks for Chain Travel Trolleys...

1. Ensure the fall of the chain is of adequate length.
2. Check that you have the correct eye plate and spacers to allow fitting to the beam.

Adjustable Girder Clamp...

Open the clamp jaws by turning the adjustment bar anti-clockwise. Offer the clamp to the beam

# Fixed Girder Trolley



then turn the adjustment bar clockwise and secure 'hand tight' to the beam.

Girder Trolley...

There are two types available, a fixed and an adjustable.

If using an adjustable, open the trolley's jaws by turning the adjustment bar anti-clockwise using a suitable spanner. Offer the trolley to the beam then turn the adjustment bar clockwise until the flanges on the wheels are approximately 1.5mm away from the beam.

Turn the lock collar clockwise to lock the adjuster bar in position.

If using the fixed type, double check that it is of the correct dimension for the beam.

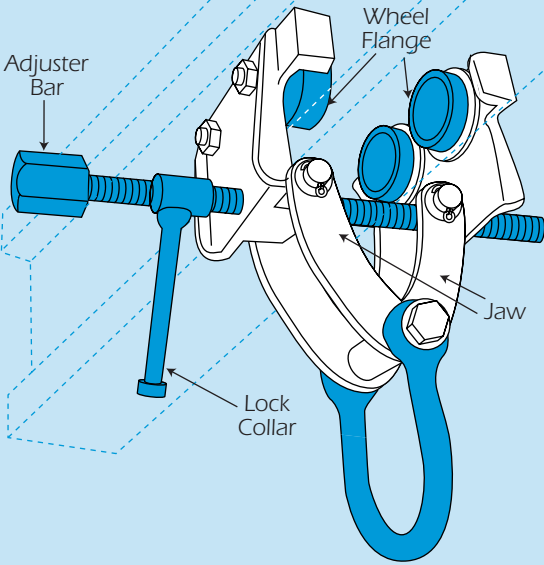
To unlock the trolley, pull the catch pin out and part the jaws. Offer the trolley to the beam and close the jaws, until the pin clicks back into the lock position. Double check that the pin is fully home before use.

Chain Travel Trolley...

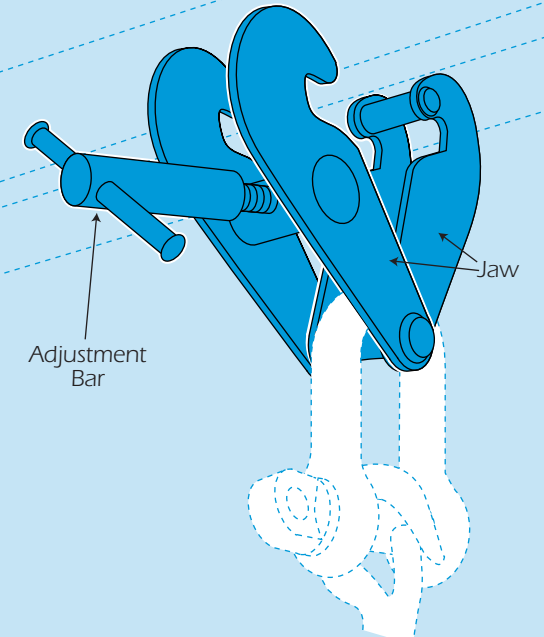
Measure the beam width and select the necessary eye plate and spacers. When correctly fitted, the flanges on the wheels should be approximately 1.5mm away from the beam.

Select the spacers and secure half of them plus the eye plate to the chain drive side of the trolley, using the nuts and bolts provided.

# Adjustable Girder Trolley



# Adjustable Girder Clamp



Offer the assembly to the beam then fix the other side of the trolley complete with spacers, using the nuts and bolts provided.