



# General Information

## RIG-MATE GIRDER TROLLEYS

### Inspection Before Use

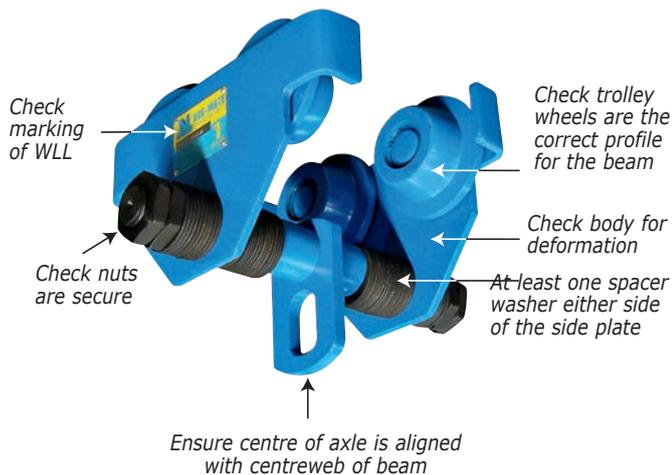


#### WARNING

- Girder trolleys should be inspected before each use.

#### The pre use check for trolleys should include the following:

1. Ensure the WLL and identification plate are attached and are clearly visible and legible.
2. Check the trolley over for any signs of distortion, cracking in welds and excessive wear or corrosion.
3. The side plates should be checked to ensure there is no distortion.
4. The wheels should be checked to ensure they are running freely and there is no sticking or unusual noise that could be the result of failed bearings or could indicate the bearings are in poor condition.
5. The hanger bar should be checked for any signs of distortion or worn threads. The threads should be in good condition.
6. Ensure there is a lock nut in place on either end of the load bar and that the nuts are tightened securely.
7. The lifting eye should be checked for any signs of distortion, elongation or excessive wear.
8. If the trolley is a geared trolley check the hand chain and hand wheel for wear and to ensure they are in suitable condition and are functioning correctly. Particular attention should be paid to the split link in the hand chain to ensure there is no distortion.



#### WARNING

- Push and Geared trolleys are designed for vertical lifting only.
- Do not subject trolleys to side loading.

### Assembly instructions for new trolleys

1. Measure the width of the girder.
2. Check that the girder width is within the trolleys adjustable range. Never use a trolley on a beam outside of its range of adjustment.
3. Check that the width and trolley wheel shape is compatible with the girder.
4. Assemble the required number of spacer washers equally inside the trolley side plates so that the dimension between trolley wheel flanges is 3 – 6mm greater than the girder flange width. Assemble remaining spacer washers equally outside the trolley side plates and fit nuts to the hanger pin. Nuts should be done up snug tight. Ensure there is always at least one washer both inside and outside of the hanger plates.
5. Ensure that the trolley centre line is aligned with the centre of the beam web.
6. Where applicable check that the operating height of the hand chain is compatible with the beam height.
7. After installation trial operate the trolley without the load along the length of the beam. Ensure that the trolley runs smoothly along the beam. Do not use a trolley that sticks, slips or has any other form of malfunction.
8. Confirm end stops are fitted to the beam. The end stops should contact the trolley body not the wheels.

### Care In Use



#### WARNING

- Girder trolleys should always be used in line with good lifting and rigging practice and as per the manufacturers recommendations.
- Incorrect Girder trolley use could result in a dangerous situation that could cause property damage, serious injury or death.

1. Check the trolley and the girder on which it is to run have adequate WLL for the load intended to be lifted and carried.
2. It is highly recommended that the trolley be used only on girders that have been designed, tested and certified as a monorail beam.
3. Ensure that the trolley wheel profile is suitable for the beam on which it is to be used. The wheels should sit evenly on the beam with the load being spread equally across all four wheels.
4. Loads should be lifted and moved slowly and carefully on push trolleys to avoid shock loading.
5. Loads should not be pushed along the beam in a fast, dangerous or irresponsible manner. Loads pushed too quickly along the beam can result in the trolley coming to a sudden stop on an end stop resulting in dangerous load swing. This places undue stress on the end stop, beam, structure, trolley, associated lifting equipment and the load.
6. Hand chains on geared trolleys should be of suitable height to enable comfortable use. Care should be taken to avoid geared trolley hand chains becoming tangled or caught on surrounding structures or other items.