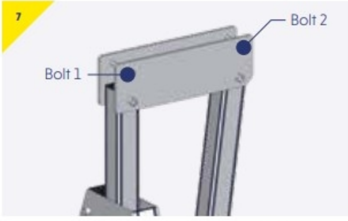
# Setting Up The Aluminium Gantry

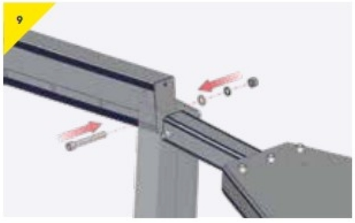

Carry out a pre-assembly visual check to ensure the following parts are included;

- Beam
- Trolley
- 2 x A-Frames
- Tool Set (Option)




This illustration demonstrates the bolt positions (1 & 2) for the cheek plates.


- Lay the two A-Frames a beam length apart on a flat surface in line with each other with the castor wheels outward and brakes on
- Lay the beam on the A-Frames, resting on bolt 1 on each cheek plate




- Offer one end of the beam to the rear bolt-hole on the cheek-plate (bolt 1) and insert a bolt
- Put on plain washer, spring washer then nut, finger tight

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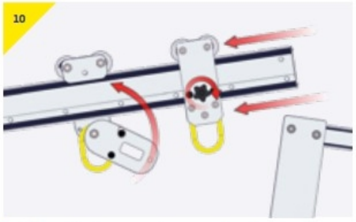
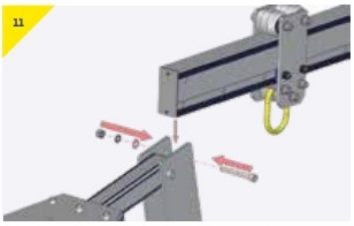
**The gantry beam has adjustment holes to narrow the footprint of the gantry. This is best done when the gantry is assembled with 2 persons sliding the A-frame inwards while 1-2 persons steady the gantry by holding the beam – this will require the use of a step ladder. If this process is required to be carried out often then an upgrade to 'lobed cheek plates' can be purchased which allows the gantry to be assembled as steps 8-21 but with one A-frame inward from the end of the beam.**




- Thread the beam trolley over the other end of the beam and lock with the friction brake at approximately centre position. If using a gated trolley, lock with the friction break

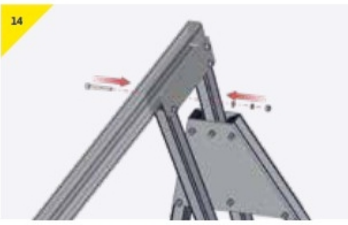



- Offer opposite side of beam to the rear bolt-hole on the cheek-plate (bolt 1) and insert bolt
- Put on plain washer, spring washer then nut, finger tight


- At this stage it is useful to attach the lifting device to the trolley in order to avoid having to lift and attach when gantry is fully erect.
  This avoids a working at height problem when attaching a hoist


**Keep hands clear of potential "Pinch" area marked with warning tape, in the scissoring system. The chain hoist must be positioned at the opposite end of beam.**

- With the help of another person, scissor the beam and A-Frame into position (using the first bolt as a hinge). Be careful not to trap any fingers in this operation




- Insert the second bolt into the cheek-plate. Tighten both bolts until spring washer is fully depressed, be cautious not to overtighten


**For additional safety, a spare bolt can be temporarily placed in the adjustment point.**

- Move trolley to other end of beam, opposite to the end to be raised, and secure by tightening the trolley knob


- Repeat the scissor activity at the opposite end of the gantry


- Insert and tighten the final beam bolt


- If the hoist is not already attached to the suspension point on the trolley, do so now (using stepladder if height setting requires)
- If this is not safe, disassemble the gantry and re-start adding the hoist prior to scissoring the A-Frames


The gantry is now erect at its lowest height setting.


**Beam height adjustment bolts (2 bolts on each upright). Tighten all bolts to 27 Nm (20 ft lbs) or until spring washers are fully depressed.**

- Decide on the height required (always using the lowest possible setting for the work in hand). Adjust the upright position

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on one A-Frame (a 2 man operation – one on the bolts and one on the upright) by removing 2 x upright securing bolts and moving the upright to the appropriate setting by lifting from the strut handle

- Re-secure with bolts, nuts and washers (do not over tighten). Repeat the height adjustment at the opposite end


**Ensure the beam is horizontal and castors are locked prior to any lift.**

- Release trolley brake and castor brakes to position the gantry over the load ensuring, when possible, that the load is lifted from the center of the beam