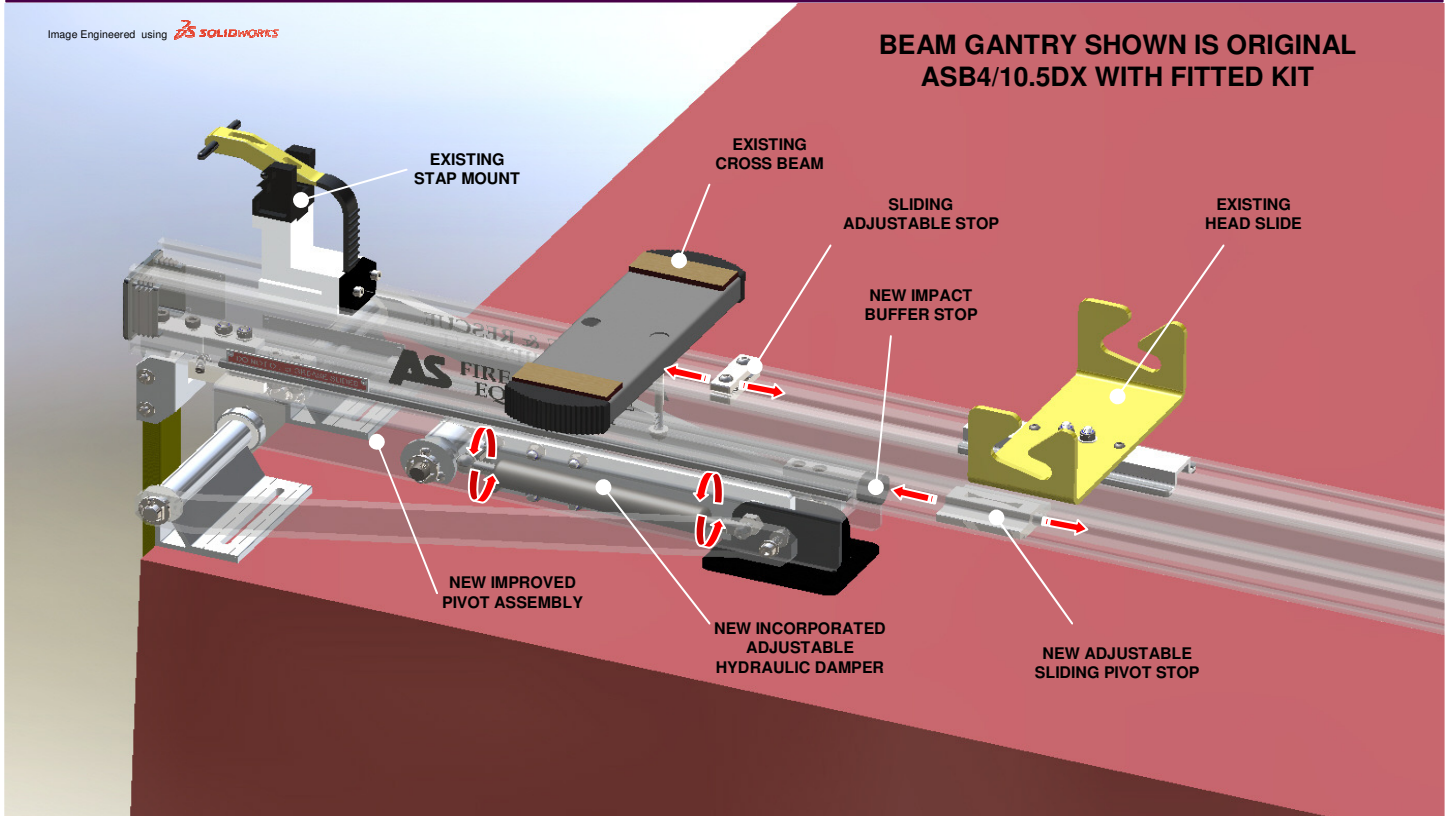


## AS BEAM GANTRY RETRO-KIT

Introducing the new Adjustable Hydraulic Pivot assembly & adjustable stops



### Design & Development

#### Pivot Assembly

The new integrated variable damper pivot assembly and adjustable stops was specifically developed to further improve the operation and set-up of the existing Beam Gantry. Its principle is simple; the integrated hydraulic damper further assists the existing friction brake to ensure that when the beam is pivoting in deployment the hydraulic damper dampens the velocity of the beam, allowing the beam to either sit on the point of balance or, when out of balance, to dampen the speed of rotation. This prevents the beam rotating too quickly, thus increasing the safety aspect of deployment and reducing shock and vibration within the beam system. Because the Hydraulic damper is adjustable you can open/close the hydraulic valve and set the dampening resistance by simply turning the piston chamber clockwise or Anti-clockwise.

This has been developed to replace the existing alloy pivot assembly currently in the field.

#### Adjustable Stops

The new adjustable stops were developed in parallel with the Variable Damper. The upper stops are to allow finer adjustments within the lower travel of the headslide, without the need for drilling. The adjustable pivot stop was developed to allow +/- 150mm travel from the beam's fulcrum, allowing the beam when deployed, to sit at the correct position to load and unload ladders or equipment. The lower pivot stop uses a pressure clamping method, without the need to drill new holes when re-positioning

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