

AEROSPACE TOOLING SOLUTION

Storage and material handling solution to safely load, move and store heavy tooling.



THE CHALLENGE

Our customer required an ergonomic, faster and safer handling method for the movement of tooling that weighed around 150kg each. Their previous process required operators to manually lift the tooling on and off pump trucks to then be moved to location. This resulted in low optimisation due to downtime, ergonomic and health and safety issues. To help improve overall footprints, our customer also wanted to store up to nine tools at any one time requiring a rack to store 1350kg total load capacity safely.

THE SOLUTION

Flowstore helped our customer by designing and manufacturing a bespoke interworking trolley and racking solution. In house testing took place to ensure the safe working loads and tooling moved smoothly between the two products.

A rack with roller tracks was designed to hold exactly nine tools using less floor space.

A scissor lift trolley was designed with matching roller tracks to help aid the movement of the tooling without the need for any manual lifting between the processes. We incorporated a stop barrier for when the tools were in transit so that they could be moved safely into location for production and back in the most efficient, ergonomic and safe matter.

THE RESULTS

With the Flowstore solution the results were immediately obvious helping with health and safety issues, reduced footprints, reduced downtime in production and improved ergonomics for all operators using the equipment.

Customer Testimony

Just a quick email to say the rack is installed – not only does it look great but functionally it is just what we needed, a safe efficient way of loading, storing and transporting the tools around the shop floor.

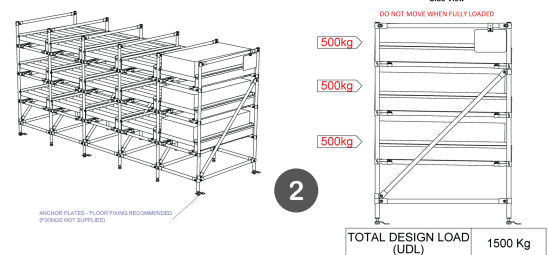
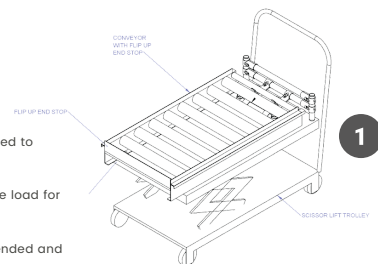
Many thanks for your efforts getting this project over the line.

Senior Engineer
A Very Happy Customer

Picture 1 and 2 – Drawings submitted to customer for approval.

Picture 3 – Scissor trolley with large load for testing.

Picture 4 – Scissor trolley fully extended and aligned to storage rack.



Watch the video here