

INDUSTRIAL CASE STUDY

Sliding Bed Plate

Eccleston Engineering was approached by a leading polymer engineering company to devise a solution to the challenges of accessing a hydraulic pack which is captive under staging.

The site exhibited many physical constraints in the form of local plant, fencing, and walkways which permitted only limited movement. Also present were structural floor bearers creating an uneven running surface.

The platform had to be sufficiently robust to carry the 500kg hydraulic pack whilst being discrete enough to nest under the staging platform. The running tracks had to be installed at the same level despite the presence of a structural frame impeding half the floor area.



Eccleston Engineering designed a carriage which engaged with elevated tracks and could also act as a stand-alone trolley when fully retracted. Retraction from the nested position saw the casters bear onto newly installed tracks, whilst ground bearing casters allowed for a smooth transition when removing the carriage entirely. A bespoke bump-stop was designed to contain the carriage in normal use and allow for full extraction when necessary.

Throughout the entire process we always considered the requirement to deliver this project safely, reliably and to the highest standard.

LOCATION	Greater Manchester
CHALLENGE	Maintenance access required to a hydraulic pack located under staging
SOLUTION	Sliding bed plate which carries hydraulic pack nests under staging