



## CASE STUDY: NATIONAL RAIL MUSEUM

### The Client

The National Rail Museum located in York, is home to a collection of over 100 locomotives including the Flying Scotsman, the legendary Mallard, the Stephenson's Rocket and numerous historical royal trains including Queen Victoria's favourite carriage.

### The Challenge

One of the key structures of the museum housing trains for display, had deteriorated over time and required replacement fabric that would incorporate modern technologies for longevity purposes. Structural amendments were also required to provide access to move the trains in and out of the area, and a 3D Laser survey was necessary as the structure was not exact with the original plans.

The issues relating to a rail yard environment, such as railway tracks and rough terrain, also needed to be overcome during the works.

### The Solution

J&J Carter used 25m reach cranes to lift the roof membrane which was manufactured and tested off-site prior to fitting. The resulting structure assimilates perfectly with the elegance of the museum, and the new membrane has a design life of 15-18 years.

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