



LONDON BRIDGE STATION THAMESLINK PROJECT

FLAT JACKING AND GROUT BAGS INSTALLATION

PROJECTS

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CONTRACT SERVICES - HIRE - SALES

PROJECT DESCRIPTION

Hydra Capsule recently completed a complex grout flat jacking operation, with a jacking capability over 1900 tonnes to permanently support the above London Bridge Thameslink Station. The works were based underneath live platforms 14 to 18. The redevelopment of the station is being carried out in phases to maintain the station working for Network Rail.

Over 50 million passengers use London Bridge station each year. By 2018 there will be more trains to more destinations and two-thirds more space for passengers.

This all helps to drive the wider regeneration of the area, building on the improvement work of the London Bridge Quarter, which has already funded a new bus station and station concourse next to the Shard.



“Supporting continuous “live” loads throughout London Bridge Station platforms”.



The original programme of works was approximately over 4 weeks. By working hand in hand with the contractor Hydra Capsule induced a programme of works operation, to suit the project site restrictions, which allowed the works to be to complete in half the period and ahead of schedule and budget.

Once the steelwork was loaded and reached strength, the demolition works were carried out, and the proposed movement of the structural maintained within the allowable tolerances.

PROJECT WORKS

Hydra Capsule were appointed to design, manufacture / supply transfusion grout flat jacks and custom-built grout bags (due to unfeasible grouting access), to assist with structural strengthening works.

Hydra Capsule were required to use 160 tonne capacity flat jacks throughout the support steelwork, and in addition, also installed a grout bag at each location.

The grout bag was inflated initially to maintain a solid footing gap and then the flat jacks were all inflated and loaded synchronously to pre-load the installed permanent steelwork.



Client

London Underground (LUL)

Type of Works

Synchronised Flat Jacking
Design and Manufacturing of
Grout Bags
Real-time Monitoring

Commence Date

November 2013

Completion Date

December 2013



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