



HEAVY DUTY JACKING SYSTEMS

CONTRACT SERVICES - HIRE - SALES

ST KATERINE'S DOCKS—QUAYSIDE

**FLAT JACKS, HYDRAULIC JACKING,
TEMPORARY PROPPING SUPPORTS
& REMEDIAL WORKS**

PROJECTS

www.hydra-capsule.com

PROJECT DESCRIPTION

The St Katharine Docks, in the London Borough of Tower Hamlets, were one of the commercial docks serving London, on the north side of the river Thames just east (downstream) of the Tower of London and Tower Bridge. They were part of the Port of London, in the area now known as the Docklands, and are now a popular housing and leisure complex.

Multi products and services provided and completed by Hydra Capsule at the Quayside Redevelopment Project.

The works involved a mixture of products and services to support the complex remedial works throughout the site



PROJECT WORKS

Hydra Capsule used permanent flat jacks to pre-load and pre-stressed numerous areas of steelworks, to assist with structural strengthening and limiting displacement and deflection of critical areas within the structure.

In addition, Hydra Capsule also supplied temporary propping support systems at critical and high-risk areas of the project. Installing supports up to 400 tonnes (Mega-Prop) at particular location(s).

With the inclusion of long-stroke (+150mm) hydraulic jacks to synchronously pre-load the supports.



All works were carried out using high-accurate movement LVDTs (+/- 0.02mm) and load sensors (+/- 1 kN) to meet the critical loading and displacement criteria provided by the structural consultant engineers.

The complete system was connected to Hydra-Capsule 'purpose built' read-out monitoring control unit. Which allows all information to be provided in "live" real-time data display.

Once these works were completed, Hydra Capsule also provided grout injection systems to permanently transfuse flat jacks and carried out concrete strengthening and repairs at badly damaged concrete areas.

Client

Private Commercial Investor

Type of Works

Flat Jacks
Hydraulic Jacking
Synchronised Control Systems
Temporary Jacking System
Grout Injection & Concrete Repair
Consultancy

Commence Date

September 2013

Completion Date

May 2014



Hydra Capsule Limited
Hydra House
Bishops Frome
Worcestershire
WR6 5BP

Tel: +44 (0) 1885 490405
Fax: +44 (0) 1885 490710
Email: sales@hydra-capsule.com