



BLOOMBERG PLACE, LONDON

FLAT JACKS, HYDRAULIC JACKING
& PRELOADING OF STEEL STRUTS /
TEMPORARY PROPPING SUPPORTS

PROJECTS

www.hydra-capsule.com

HEAVY DUTY JACKING SYSTEMS

CONTRACT SERVICES - HIRE - SALES

PROJECT DESCRIPTION

The project is one of the largest private investment within the United Kingdom / Europe for an commercial development for Bloomberg London, the construction project for the new European Headquarters for Bloomberg L.P.

The development comprises two high-grade specification office buildings in the City of London. It will include some retail units at ground floor level, and a new entrance to the London Underground, Bank Station.

Hydra Capsule flat jacks ranging from 50 to 350 tonnes were provided. (Models FJ25, FJ-48 and FJ-60).

“Hydra Capsule provided over 5,000 tonnes of preload jacking forces throughout the project; with props extending over 25 metres in length”.



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.

Hydra Capsule also provided contract service to fully install and carry out grout injection; to permanently transfuse each flat jack individually for the jacking force to be permanently induced for the duration of the project.



PROJECT WORKS

Hydra Capsule manufactured over 40 number permanent flat jacks to pre-load and pre-stress numerous locations of the perimeter steelworks' prop struts and waling arrangement.

To assist with structural strengthening and limiting displacement and ground settlement and displacement within the critical locations (ie. surrounding offices, buildings and listed church), whilst the full excavation works were completed.

In total the temporary support system was install to a depth of - 24 metres and while all the ground works were completed prior to the concrete core structures being erected.



Client

Bloomberg L.P.

Type of Works

Flat Jacks
Hydraulic Jacking
Synchronised Control Systems
Temporary Propping / Strut
Systems

Commence Date

September 2013

Completion Date

June 2014



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