

Expert Solution in



ROAD AND RAILWAYS TUNNELS • METROS • HYDRAULIC GALLERIES

L A R G E T U N N E L S



GEOTECHNICAL AND CIVIL ENGINEERING CONTRACTORS

BUILD ON US

LARGE TUNNELS

Soletanche Bachy Group, a main contractor specialised in geotechnical and civil engineering, designs and constructs large scale underground works worldwide using a number of processes.

- Its LARGE TUNNELS DIVISION offers the whole Group expertise in this field, supported by a wide experience acquired through the completion of many underground works over previous years.

- Our proposals are complete because, in design as well as construction, the Company covers all general and specialist works from the underground soil removal to the complex specialist works: soil investigation, geotechnic testings, grouting, drains, rock bolts, anchors, freezing and monitoring.

This unique global expertise is a precious asset for Clients.

- The LARGE TUNNELS DIVISION completes the supply of the subsidiary Company CSM Bessac, designer and manufacturer of tunnel boring machines, itself a main contractor for tunnels ranging from 0.5 to 5m diameter for water and other utility networks.



TYPE OF WORKS



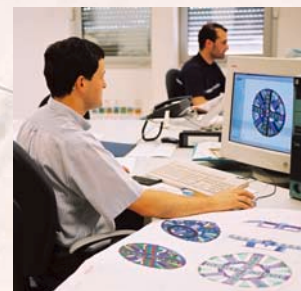
- Tunnels for underground, associated works (stations, transition structures, ventilation shafts, ...)
- Road tunnels
- Railway tunnels
- Pilot galleries or soil investigation
- Safety galleries and connecting passages
- Hydraulic and storage galleries

- Technical galleries (high tension cables, urban heating,...)
- Access tunnels, inclined adits (mines, underground storage,...)
- Works on existing structures (rehabilitation, updating to legislation, and existing tunnel improvement...)

TECHNICAL PROCESSES

- Tunneling with tunnel boring machines
- Blasting
- Roof presplitting
- Tunneling with road headers
- N.A.T.M. (New Austrian Tunneling Method)
- Special works (soil treatment, rock improvement, lining regeneration, retaining walls, deep foundations, anchors, underpinning, freezing, ...)

- Integrated consultant specialised in structures and geotechnique: Sol-Expert International
- Real time and integrated project monitoring and instrumentation systems: Sol Data (subsidiary)
- Office and plant for the design and manufacturing of boring tunnel machines and specific equipment for underground works : CSM Bessac (subsidiary)



LARGE TUNNELS Division

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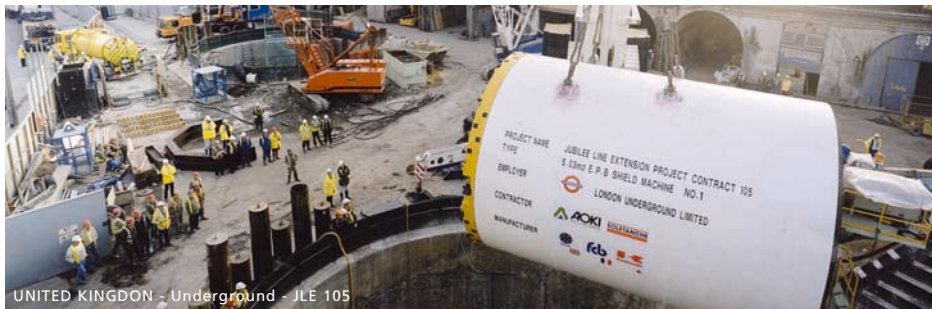
SPAIN - Collabos



SOUTH KOREA - Seoul Kukdong



FRANCE - Toulouse underground



UNITED KINGDOM - Underground - JLE 105



FRANCE - Freezing



FRANCE - Toulouse underground



FRANCE - Lille underground

- **FRANCE - Paris**
RATP - RER Line D Lot D2
- **FRANCE - Paris**
RATP - RER Line D Lot D3M10
- **FRANCE - Paris**
SNCF - Refurbishment RER C
- **FRANCE - Paris**
SNCF - RER Line E Lot 37F
- **FRANCE - Lille**
Underground - VAL - Line 2 - Section F
- **FRANCE - Toulouse**
Underground - Line B - Lot 3 et lot 4
- **UNITED KINGDOM - London**
Underground - Jubilee Line JLE Lot 105
- **UNITED KINGDOM - London**
Underground - Jubilee Line JLE Lot 103
- **UNITED KINGDOM - London**
Underground - Jubilee Line JLE Lot 107
- **UNITED KINGDOM - London**
Underground - Jubilee Line JLE Lot 110
- **UNITED KINGDOM - London**
Channel Tunnel Rail Link
Stratford East Portal/Barrington Road
- **SPAIN**
Safety gallery on the Collabos tunnel
- **SPAIN - Madrid**
Tunnels on M40 highway
- **SPAIN - Madrid**
El Goloso tunnel
- **SPAIN**
Peña Angulo tunnel
- **DENMARK - Copenhagen**
Underground - COMET Project
- **CHILE**
El Teniente tunnel
- **SOUTH KOREA**
Seoul Kukdong

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