

Company Profile



BAUER Technologies is the UK contracting arm of the BAUER Group. We perform deep foundation works on major projects in the UK. We specialise in the design and installation of large diameter piles, diaphragm walls, under-ream piles and in-situ piled retaining walls.

Core Competencies

- Large Diameter Rotary Bored Piling
- Secant Pile Walling
- Diaphragm Walling
- Geothermal Piling
- Underream Piling
- CFA Piling
- Pile Removal

The BAUER name is synonymous the world over, with the highest standards in foundation engineering. By concentrating on our core competencies we are able to ensure we maintain these high standards in the UK. We specialise in major projects, value in excess of £500K, and technically complex projects.

All our piling and diaphragm walling equipment is manufactured by BAUER. This equipment is particularly suited to dealing with hard strata, including the removal of reinforced concrete obstructions where these obstruct the position of a proposed foundation.

As a wholly owned subsidiary of the BAUER Group we are fully supported by the technical departments of our parent company BAUER Spezialtiefbau (BST) in Germany, allowing access to additional rigs and specialist resources as well as enabling us to benefit from the latest improvements from BST's Research and Development department. By maintaining close links with our worldwide network we are able to draw upon the full depth of BST's experience and engineering knowledge to develop the most innovative and cost-effective solution to our client's foundation problems.

1 US Embassy, London

BAUER Technologies was awarded the contract to undertake the piling and diaphragm walling works for the new US Embassy in London. The US Department of State Bureau of Overseas Buildings Operations (OBO) construction contractor, BL Harbert, and prime sub-contractor, Sir Robert McAlpine, selected BAUER Technologies for the early site work. The project is scheduled to commence June 2013, ahead of the main works in August 2013. The preliminary test piling is scheduled to commence mid-June 2013, ahead of the main works in August 2013.

BAUER's work will consist of the construction of a diaphragm wall and deep base-grouted piles. Despite the large-scale nature of the project, work will be completed to an extremely tight 3 month schedule.

We will mobilise a number of rigs, including 2no. BG40s, 2no. BG28s and 2no. diaphragm wall grabs.

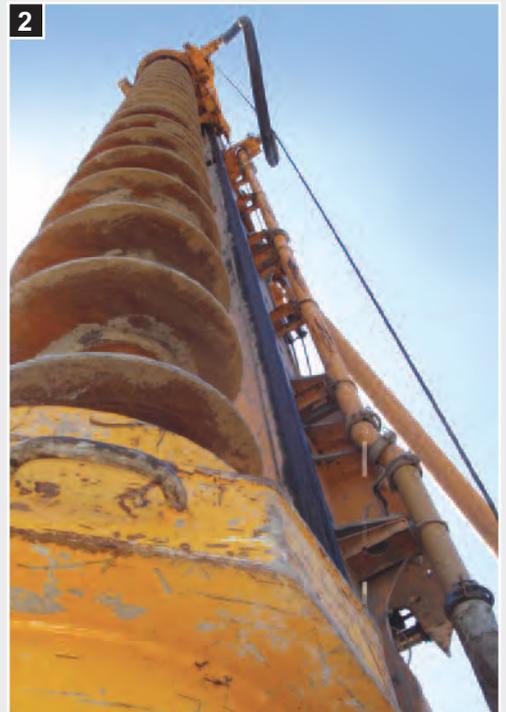
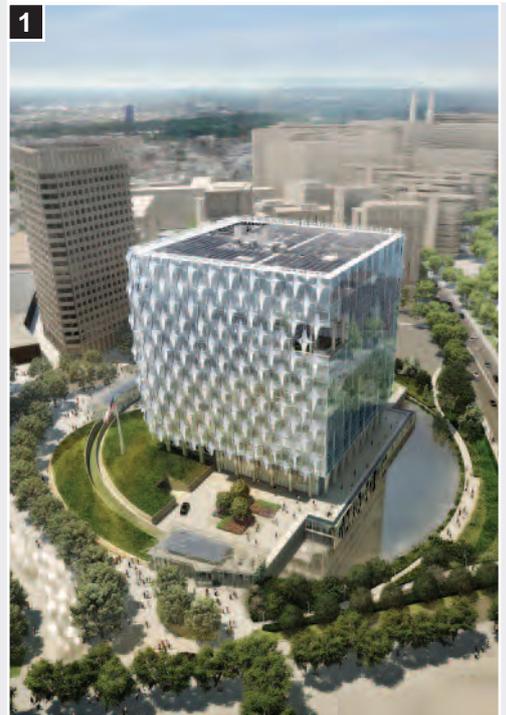
2 Acton Dive Under, London

BAUER Technologies secured the contract for the piling works for the £30m Network Rail (on behalf of Crossrail) Acton Dive Under project in West London. The £4m project awarded by main contractor BAM Nuttall, will see BAUER Technologies install 9501nm of secant and contiguous pile walls consisting of 1400no CFA piles in diameters of 600mm, 750mm and 900mm. The piles up to 16m deep, will be installed between live railway lines using a CFA adapted BAUER BG28 drilling rig.

3 Whitechapel Station - Cambridge Heath and Durward Street Shafts - Crossrail Advanced Station Works

BAUER Technologies completed Crossrail Advance Works Contract C511 at Whitechapel Station, London in May 2013. The scope of works included the construction of a circular diaphragm wall shaft at Cambridge Heath and a more regular shaped diaphragm wall box at Durwood Street. The main contractor for the Project was the BAM Nuttall Kier Joint Venture. Both sites had extremely challenging working constraints. Other works included pile probing and pile removal.

To view these projects in more detail please visit our website:
bauertech.co.uk/case-studies





4 Liverpool Street Station - Moorgate Shaft - Crossrail Advanced Station Works

BAUER Technologies completed the Crossrail Advance Works Contract C501 at Moorgate, London in August 2013. The contract for Main Contractor BAM Nuttall Kier Joint Venture included extensive pile probing and pile removal using the BAUER Technologies developed Annulus Cutter. The main scope of the project consisted of the construction of 3No 2.4m diameter future over site development piles and the construction of a diaphragm wall box. Geothermal loops were also installed within the diaphragm wall panels. Working space within this extremely constrained site was a significant challenge to the Project Team for the duration of the works.



5 Tottenham Court Road Station Upgrade, London

BAUER Technologies performed large diameter (2m+) piling down to below 65m deep, diaphragm walling 1m thick x 41m deep, 11nr plunged columns installed into large diameter 48.5m deep piles of diameter 2.4m and various secant pile walls for Main Contractor Vinci BAM Nuttall Joint Venture, Client - London Underground. The project had numerous challenges;

- Construction of a 2m diameter bearing pile with permanent liner in a 'D Shape'.
- Design and installation of a new bespoke plunged column frame 23m long equipped with laser guides which for the first time in the UK bears on naked soil rather than a steel casing clamping the frame in place. The plunge columns are by far the heaviest and longest that the industry has seen for a while with a mixture of 600 x 600 and 700 x 700 columns up to 33m long installed.
- Installation of a diaphragm wall within a working area of 25m x 30m surrounded by London traffic.



6 Pembroke Jetty, Pembroke

BAUER Technologies completed these extremely complex works on a 50 year old jetty on the Severn Estuary at the site of the new 2000MW, Combined Cycle Gas Turbine Power Station, to support the Leibherr LGD 1750 and its 387.5 tonne superlift required for the safe off-loading of five 400-tonne turbines as part of the stations' construction. BAUER chose its rotary system for the job, using thick walled casing with tungsten carbide cutting teeth rotated to toe using BAUER's powerful BG28 rig. For the marine piles, 1220mm diameter casing (19mm thick) was fitted with BAUER spec cutting teeth to ensure penetration through the boulders. Work was undertaken 24hrs a day, 7 days a week to complete the piling and ensure the deadline was met as ships in Rotterdam were on tight schedules to depart.

7 Pembroke Power Station, Pembroke

BAUER Technologies completed the £5 million contract for the installation of the piled foundations at Pembroke CCGT. Each unit consisted of a variety of sub-structures covering a total area of 40,000sqm. The scope of the piling contract comprised the construction of the piling platform, preliminary trial bores to verify ground conditions and rock head level in the piling area, a preliminary pile testing regime including a fully instrumented test pile, construction of 2,307no. 600mm reinforced CFA piles, 421nr 900mm unreinforced CFA piles and installation of 10nr 1200mm diameter steel liners to 10m depth at the condensate pit, including all associated piling attendances.



8 Severn Power CCGT, Newport

BAUER Technologies were awarded the £15 million contract for the piled foundations of the new Power Station which consists of two power generating units, each a variety of structures covering an area of 60,000sqm. The scope of the piling contract involved the construction of the piling platform, a preliminary pile testing regime, the erection of an on-site concrete batching plant, the installation of the piled foundations, comprising 439nr 620mm diameter bored piles, 426nr 880mm diameter bored piles and 711nr driven cast iron ductile piles.



9 Waste to Energy Facility, Newhaven

BAUER Technologies executed a circular shaped diaphragm wall and foundation barrettes for the facility in Newhaven for Hochtief UK. Different options and alternative technical solutions were proposed and offered during the tendering phase before Hochtief, in joint venture with vonRoll (Switzerland), awarded the project to BAUER Technologies Ltd.



10 Palm Paper Project, Kings Lynn

BAUER Technologies was successful in winning the contract for the piled foundations of Europe's largest paper machine. The scope of the project was to install a secant pile wall (hard/hard) and foundation piles to support the machine hall area to a design developed by BHM INGENIEURE Engineering & Consulting GmbH. The final value of the works performed by BAUER amounted to £4.4 million.



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