

# Piling Equipment Specialists

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In the spring of 2024 McLaughlin & Harvey Ltd chose ABI TM20 and TM22 Mobilrams along with associated tooling for piling works on the Associated British Ports Lowestoft Eastern Energy Facility.

The Port of Lowestoft, which is owned and operated by Associated British Ports (ABP) is currently undergoing major infrastructure upgrades. The development works are part of ABP's Lowestoft Eastern Energy Facility (LEEF), which will support the offshore energy industry. As part of this work three new berths and a reclamation area have been built. The work has been installed in two phases.

Both phases of work used ABI Mobilrams for the installation of anchor piles and some universal bearing piles (UBP's). Phase one involved the creation of two berths requiring the installation of 92No Ø762mm x 7.6m long anchor piles which were installed using one of our ABI TM20 Mobilrams equipped with an MRZV30VV vibrator and special MZK1200 Combi-Clamp. These piles were pitched from horizontal into their final vertical location using the rig and vibrator.

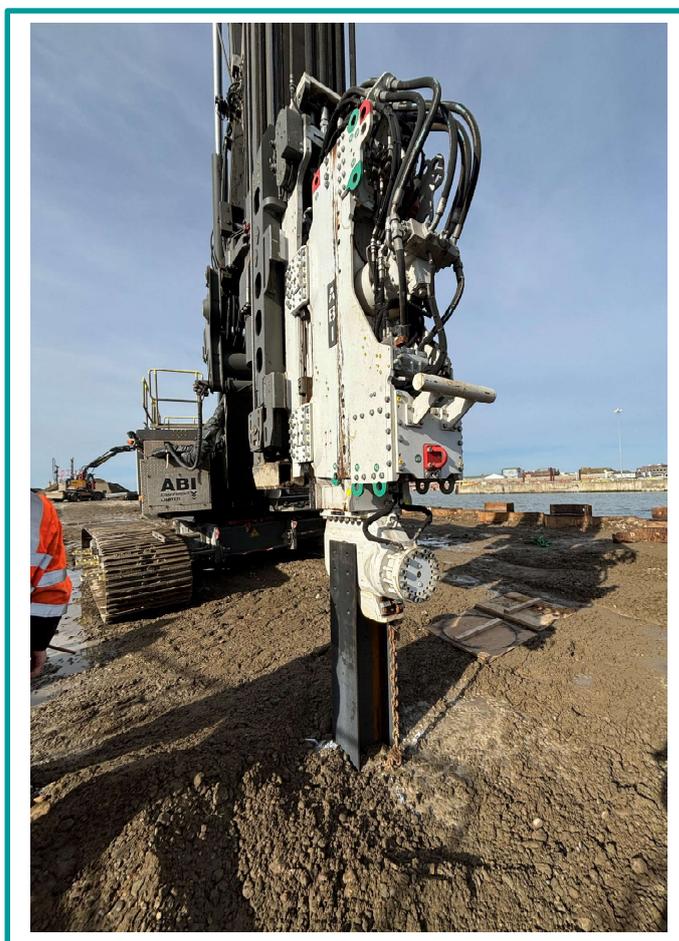
Once the piles were driven to required depth, the vibrator was quickly exchanged for auger equipment (a very efficient and safe process thanks to the rig's unique Rapid Docking system) and the top 3m of each pile was then augered out using Ø600mm augers. The space created inside each pile subsequently permitted the tie rods to be installed and once this work was completed the void was sealed with concrete.

**Project:** Associated British Ports Lowestoft Eastern Energy Facility

**Client:** McLaughlin & Harvey LTD

**Equipment used:** ABI TM20 and TM22 MRZV30VV and MKZ1200 Combi-Clamp

**Applications:** Steel Combi Wall, Anchor Piles and Subterranean Piling



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Phase two was completed using our ABI TM22 Mobilram equipped with MRZV30VV vibrator. This section of works comprised of Ø762mm and Ø914mm steel tubular piles varying in length from 7.9 to 15.8 metres. Again, our MZK1200 combi-clamp was utilised to install the piles to depth with the anchor tie rods installed as per phase one (see above).

The TM22 was also required to install 21.6m long 305mm x 305mm x 88kg/m UBP's. This required the standard SKZ1120 clamp assembly to be reinstated. These UBP's were installed in two lengths with a spliced joint being made on site. Once extended each pile was then driven to full depth using the TM22 Mobilram with its powerful vibrator.

Interestingly, in some locations, the TM22 was required to install piles with their tops being well below the rig's working platform level (so called 'subterranean piling'). The rig was able to take this work in its stride, illustrating once again the awesome capability and versatility of our Mobilrams.



Paul Durnin McLaughlin & Harvey Ltd, Project Manager says:-

“We were very impressed with the performance of both the ABI TM20 and TM22 during the works on the port. The rigs ensured that the piles were installed as precisely, efficiently, and safely as possible. Working in the marine environment is often challenging but the versatility of the rigs meant that any problems were easily overcome. We look forward to using them on future projects.”

