

Piling Equipment Specialists

Sales - Hire - Parts and Service - Project Support



Graham Construction selected ABI Equipment Ltd to provide a specially prepared telescopic leader rig for the initial installation of onshore steel tubular piles for a new jetty construction at Grimsby Docks in May 2012.

The project involved the installation of 35m long Ø762 steel tubes at the foreshore location, with potentially unstable soil conditions.

Jetty Construction, Grimsby Docks

Contractor: Graham Construction Ltd

Technique: Driven Piling

Equipment: ABI Mobilram TM 16/20 B

ABI MRZV30V



The proposed solution from **ABI Equipment Ltd** was to bring three key elements together:

Firstly, a highly stable piling rig in the form of an **ABI TM6/20B Mobilram** - a 65-tonne purpose built machine with 'B'-version kinematics offering a very robust leader design with high torsional and lateral stiffness combined with large working load capacity.

Secondly, in order to best match the soil conditions and pile weight, the standard ABI MRZV20V variable moment vibrator was exchanged for a larger **ABI MRZV30V** unit - offering 50% greater vibration amplitude for the same given pile mass.

Finally, a special **double clamping system** (a 'caisson' clamp) was installed on the 30V vibrator in place of the standard single clamp - to provide a safe method of pile pitching whilst optimising the delivery of vibrator power over the centre of the pile.



Piling Equipment Specialists

Sales - Hire - Parts and Service - Project Support



The 35m long piles were to be installed utilising one spliced welded connection with the first 17m length pitched and driven using an ABI Mobilram. Graham's were looking for a highly productive and safe method to handle and install the 5-tonne piles to maximum depth.

Works had to be completed over a bank holiday weekend so Graham Construction required a smooth entry/exit to the job site and a clinical performance once on site.

Works were completed well within the allocated time slot with all piles installed to required level.



This project demonstrates the importance of selecting the right equipment for the job and the versatility of ABI Mobilrams for getting the job done.

