

# ABI Equipment Limited

## Piling Equipment Specialists

Sales - Hire - Parts and Service - Project Support



ABI Equipment Limited supplied a specialist pile clamping attachment to further enhance the driving and extracting capabilities of Dew Piling's powerful ABI TM14/17V Mobilram with MRZV20V variable moment vibrator.

The piling works were carried out in 2014.

Two parallel runs of 12m long Hoesch 2507 sheet piles were installed in crimped pairs to shore an excavated cutting prior to the installation of a pipeline. Once the pipeline was laid, the piles were subsequently extracted and re-used.

The relatively light steel section, when driven in to the relatively tough final layers of soil, proved to be susceptible to tearing where the standard "interlock" vibrator clamp made contact with the piles.

ABI's new MZK1250 Combi-Clamp provided the solution to the problem. With two fully adjustable (sliding/rotating) clamp assemblies the clever MZK unit can be quickly adjusted to clamp on to pairs of U- and Z- section steel sheet piles (and also a range of steel tubes!).

The use of this special twin clamp assembly ensures that the forces generated by the vibrator are delivered centrally to the piling element, thus ensuring optimum efficiency, avoiding the generation of wasteful and potentially damaging lateral forces. The forces are also applied through both clamp assemblies, rather than one, greatly reducing pile head stress and pile "flapping" (a condition which generates noise and energy loss!). All piles were driven successfully without further head damage.

### Carrington Power Station

**Main Contractor:** Dew Piling

**Piling Equipment supplier:** ABI Equipment Limited



### ABI Equipment Limited

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