

The Industry has been calling for VARIABLE MOMENT technology.

Hytec International has just taken delivery of a New PVE 28VM (Variable moment) vibratory hammer.

At the first job of this combination it immediately shows the biggest advantage of a Variable Moment vibratory hammer, placing sheet piles right next to a building causes some noise nuisance for the residents but the building itself stays perfectly intact. The high tech design eliminates damage causing vibrations in start up and stops modus. Also the high working frequency causes much less critical vibrations at considerable distance. Old and new buildings can be saved by using VM vibratory hammers.

Variable moment (VM) technology enables the vibratory hammer to be started, and run up to its desired operating speed (generally around 2300vpm) PRIOR to "unbalancing" the bias weights (or 'eccenters') which creates the vibration for installing and extracting piles.

On a conventional normal or high frequency vibratory hammer, the 'eccenters' spin in their "out of balance" operating mode during start-up and shutdown. When the speed of the vibratory hammer passes through around

700-1000vpm (the "resonant frequency" of the equipment), the equipment sends a peak vibration up through the crane-line and into the crane, as well as down through the pile being installed or extracted and into this soil. This peak vibration can be up to 5 times higher than the operating vibration of the hammer, and can cause structural damage and electrical damage to the crane, and well as damage to nearby pipes and services in the soil and nearby structures.

Hytec International has just taken delivery of one of two New PVE 28VM (Variable moment) vibratory hammer from Dieseko Group coupled with a PVE 600 power unit for our rental fleet currently working with Besix for Dubai Canal project,

If you require any further information regarding PVE 28VM (Variable moment) vibratory hammer, please do not hesitate to contact Hytec

