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PROVIDING SOLUTIONS

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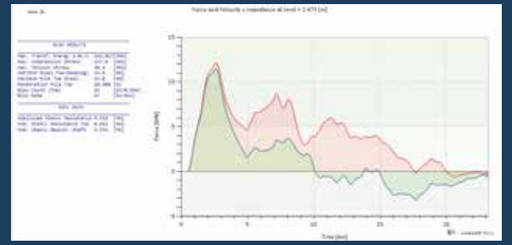
ALLWAVE DRIVABILITY SOFTWARE

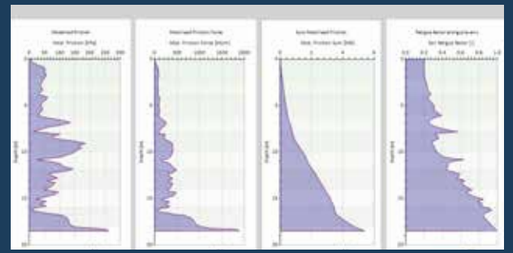
for impact and vibratory driving onshore and offshore

ALLWAVE

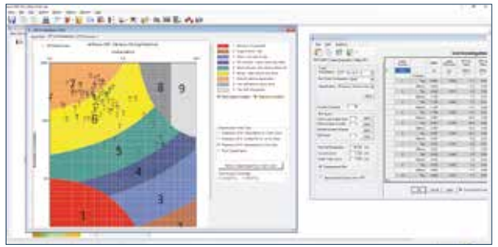
A POWERFUL TOOL FOR DRIVABILITY STUDIES FOR IMPACT AND VIBRATORY HAMMERS, BOTH ONSHORE AND OFFSHORE.



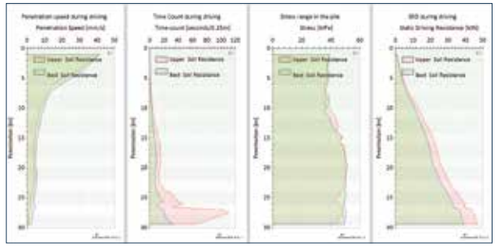
Graphs display as function of time the force, velocity times impedance and displacements of the pile, indicating continuing penetration or refusal



Graphs for modelled and mobilized shaft friction with soil fatigue factor along the pile axis



Soil investigation module to import and transfer CPT, SPT and other soil data to dynamic and static soil parameters



Graphs display as function of penetration the penetration speed, amplitudes of forces and displacements, soil resistances during vibratory driving

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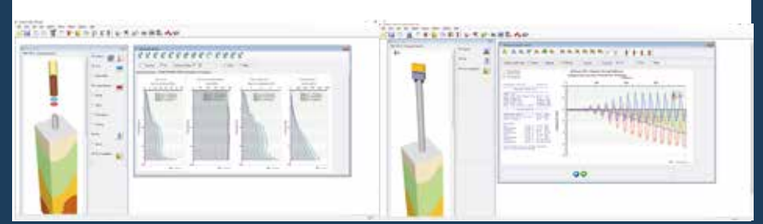

KEY BENEFITS

- User-friendly tool for driveability studies and hammer design
- Support hammer selection process to optimize pile installation process
- Determination of maximum pile stresses during pile installation
- Generate input data file for pile fatigue analysis
- Estimation of maximum blow count, maximum penetration depth and total driving time
- Method of Characteristics as accurate stress wave algorithm
- Easy to operate
  - Soil investigation module to transfer CPT, SPT and other soil data to dynamic and static soil parameters
  - Soil models for both impact and vibratory driving
  - Soil fatigue models (Alm&Hamre, Toolan, Fox, Stevens, Unified Method, Heerema and General Model)
  - Extensive hammer and components library for both impact and vibratory hammers
  - Automation commands for running scripts to import different soil profiles, hammers, pile dimensions, etc. to run AllWave externally
  - Back analysis with PDA and VDA monitoring results (Learning Loop)
  - Available in standalone, network and cloud based versions