

Design and analysis of supports and foundations for heavy vibrating equipment in industrial plants.

3D Modeling:

- Prediction of the dynamic characteristics of vibrations transmitted from source equipment to different areas in the plant.
- Prediction of the dynamic characteristics of foundation systems and the influence of the geometry on the isolation capabilities.
- Optimization of the equipment foundation design from both the static and dynamic aspects.
- Optimization of foundation system designs to be compatible with high seismic activity.
- Optimization of piles and piers in a foundation system to maximize vibration absorption.

- Analysis and design of roller mill foundations, ball mills, crushers, vibratory feeders and screens, process fans and hydraulic presses.
- Study of Eigen-frequencies and resonance for structures and surrounding soils.
- Analysis of resonance possibilities for foundations systems during operations.

