



BUSINESS NEED

- 5/6 cylinder marine diesel engine require external vibration compensator to eliminate 2nd moment vibrations.
- Customer's challenge was to design a simple and reliable system with minimum number of costly bought out components

SOLUTION

- 4.5 Ton vibration compensator designed, developed and prototype by L&T TS
- Two contra rotating eccentric masses of 500 kg driven through an electric drive system
- Used Lenze motor and drives instead to generate torque
- Used belt drives for a silent operation along with eliminating the need for lubrication for the system
- Starting algorithm to Eliminate air motor requirement on the further variants of the product

BUSINESS VALUE DELIVERED

- 50% cost reduction
- 20% more energy efficient by storing energy lost on brake resistors