

# Dynamic balancing

How well balanced are your machines? Imbalance is a predominant cause of machine vibration, stress and untimely failure. A good balance condition is also fundamental to achieving energy efficient operations.

ETEL Services offer dynamic balancing of rotating equipment at our Hamilton and Christchurch facilities, as well as field balancing either in situ or using portable equipment for large rotors up to 40 tons.

All balancing is performed to ISO 1940 standards and balance correction achieved in 1 or 2 planes.

Rotating equipment requiring dynamic balancing includes:

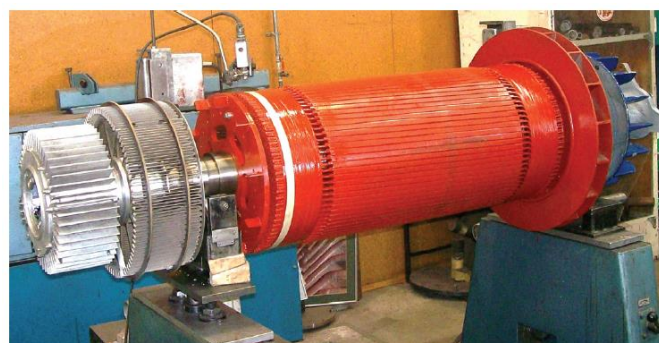
- Fans and blowers
- Rotors
- Compressors
- Armatures
- Impellers
- Pump assemblies
- Steam and gas turbines

## Workshop balancing

- Soft bearing, EasyBalance machine capable of balancing items up to as six metres and 10,000kg
- All serviced machines are balanced, except for small rotors

## In situ – onsite balancing

- Rotating assemblies can be balanced in place with the following advantages:



1. no need to dismantle machinery
  2. reduced downtime
  3. minimal disturbance when re-commissioning machinery, ensuring achieved balance level remains
- Provides opportunity for other non-balance related faults to be diagnosed and corrected onsite