



# Vibration analysis

Vibration measurements contribute to the condition-based maintenance of machines and systems.

Conditions can be documented and compared with historic data and our vibration experience, in case of changes in the behaviour of the vibrations, abnormalities can be determined before failure.

With more than 30 years of experience in servicing and analysing rotating equipment we know, what it takes to ensure long lifetime, the highest efficiency and savings in relation to energy consumption, etc.

By giving the equipment the best possible installation conditions and have a healthy preventive maintenance policy, the future maintenance costs will be minimized. To take full advantage of the equipment's performance we recommend optimizing during the installation.

#### **By doing so you can:**

- eliminate possible installation errors
- better operating conditions
- get basic measurements for future analyses
- reduce energy consumption

Another benefit worth mentioning is that there is a fast pay-back time / return on investment. Our vibration specialist is certified by the MOBIUS Institute. Root cause analysis and fault analysis is our specialty.

#### **We have the following inspections possibilities:**

- Visual pump inspection of:
  - Electrical connections
  - Pipe supports, relief of the pipe system
  - Foundation, support, opportunities for resonances
  - Ventilation around electric motor and frequency converter
- Alignment check
- Coupling inspection
- Vibration measurement of:
  - Electric motors
  - Vibration analy
  - Pumps
  - Fan's
  - Thrusters
  - Other rotating equipment
- Indication of bearing current
- Operating parameter control, pump curve
- Power measurement on the pump installation
- Inspection report, proposal for optimization of pump or operating area incl. energy analysis
- Inspection report