





# CONDITION MONITORING **SERVICES (CMS)**

Every machinery requires thorough maintenance and foresightedness for high efficiency. Condition Monitoring is a trusted perspective technique at NBC to predict potential failures to improve asset reliability.

- NBC provides intelligent solutions for Condition Monitoring to:
- Improve efficiency
- Reduce downtime and maintenance cost
- Boost productivity
- Increase the lifespan of machinery
- Increase the assets' reliability

# **Condition Monitoring: Why it is important**

### With condition monitoring

Early detection of machine problems Eliminate the causes of failure Reduce vibrations and heat Higher machine availability and system safety Reduce operating and maintenance



### Without condition monitoring

Strong vibrations, heat, and noise Rotor imbalance Bearing damage and failure Premature wear of components such as gears and bearings Loss of production and unplanned downtime



## Applications

- <sup>o</sup> Fan and Blower
- o Motor
- <sup>o</sup> Pump and Compressor
- o Gearbox
- Paper Mills
- O Textile Mills



National Engineering Industries Ltd © NEI Ltd 04/2022 | Follow us on: 📑 in 🕨 🞯 🎔 / nbcbearings | www.nbcbearings.com

#### **NBC offers**



Vibration monitoring & analysis

- Route based data collection
- Troubleshooting
- One and Two plane field balancing



**Lubricant Analysis** • Fluid properties analysis Contamination check

Wear debris estimation



Laser shaft alignment

- Solve misalignment problems like horizontal, vertical, rotatable, non-rotatable, cardon, coupled or uncoupled, etc.
- Precision alignment to save direct and indirect operation and maintenance losses.



Dynamic balancing

• 1 plane balancing • 2 plane balancing

#### Thermography

- Temperature detection through infrared emission
- Leakage detection
- Inspection of bearing health, shaft and sheave misalignment, and
- other mechanical faults





National Engineering Industries Ltd © NEI Ltd 04/2022 | Follow us on: 📑 in 🕨 💿 У / nbcbearings | www.nbcbearings.com