



Motornostix®



Critical Machine Condition Monitoring

MOTORNOSTIX (Pty) Ltd Reg. no. 2000/024321/07

MILL MONITORING

Reduce breakdowns and maintenance costs on production mills

Motornostix® mill monitoring service enables you to:

Manage and reduce operational risks

- Increase production volume
- Reduce equipment maintenance
- Improve personnel safety

Motornostix® mill monitoring features:

- Continuous online data logging
- Measurement of vibration, temperature, motor current, stray flux and rotational speed
- Identification and investigation of trend and spectral anomalies
- Establishing baseline operating levels for mill health
- Client alert notification
- Regular mill health reports

Detect defects at an early stage

- Bearing and gearbox overheating
- Motor and shaft misalignment
- Gear tooth surface wear and failure
- Loose couplings and mountings
- Bearing failure
- Motor and shaft imbalance

Fault conditions investigated by

Motornostix® include

- Lubrication overheating
- Bearing damage
- Shaft misalignment
- Mechanical looseness
- Imbalance
- Temperature trends
- Gear tooth surface wear and failure
- Time domain correlation



Reduce mill breakdowns

Receive early warning of impending problems

Improve monitoring safety

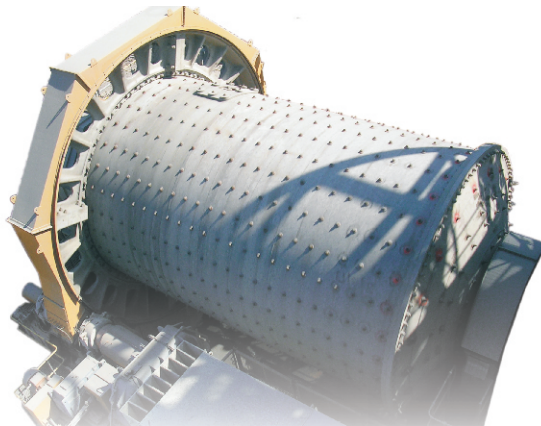
Improve availability

Motornostix® mill service monitors

- Motor
- Main gearbox
- Pinion bearings

Payback: The expected payback is achieved in

- Reduction of machine related down time
- Reduction of machine maintenance cost
- Safe operation
- Increase life time of machine components



Motornostix® can identify

Bearing surface damage

Rotor imbalance

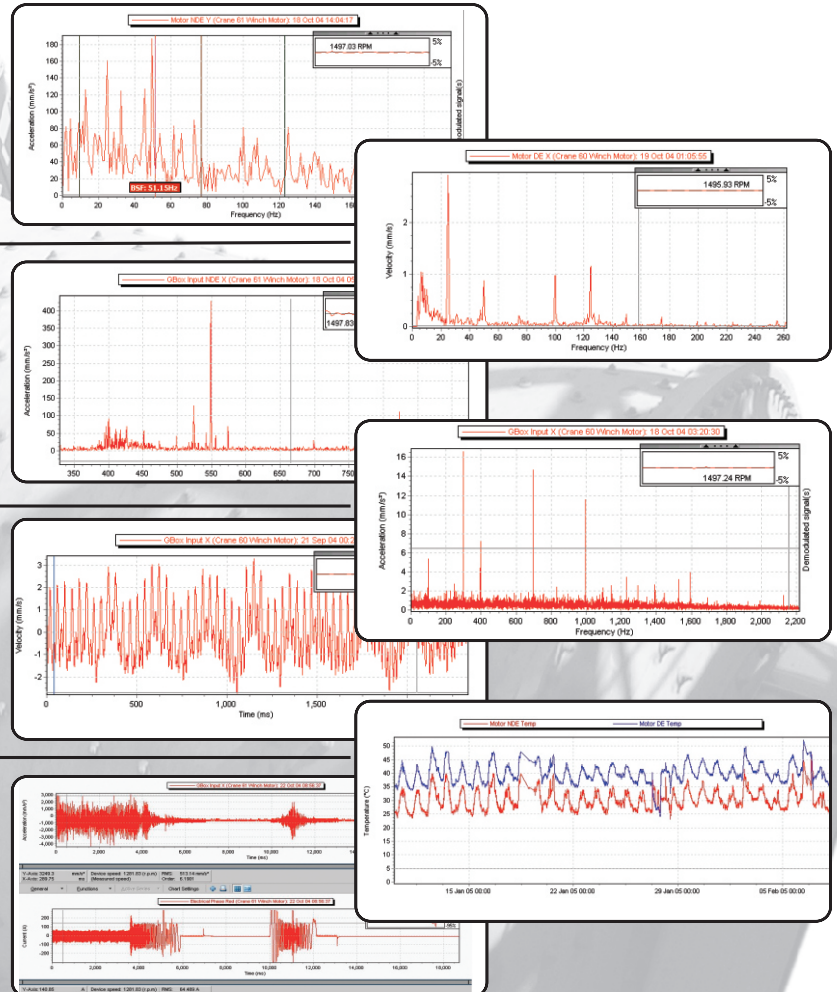
Gear tooth surface wear

Gear shaft misalignment

Excessive loading

Temperature trends

Time domain correlation



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