



AMT Pro

Rotating Equipment Diagnostic System

A Paradigm Shift in Condition Monitoring **AMT Pro**

Artesis **AMT Pro** is a portable motor driven Powered faults on energy efficiency (EEE).

by its patented machine learning equipment test system which automatically algorithm and 10-million motor datasets, this unique generates a condition assessment report instrument is capable of monitoring three phase AC indicating existing electrical, mechanical, and motors and generators as well as driven equipment operational faults, time to failure information, of all sizes and power levels to provide a clear, recommended corrective actions, and effects of unambiguous indication of when the performance of a motor and driven equipment begins to degrade.



- No sensors to install on machinery
- Monitor any machinery driven by a 3-Phase AC motor
- Test from the MCC Panel
- Test Live No interruption to plant operations using the AR Test Plug (optional)
- Fast only 7-minutes for data acquisition, analysis, and reports!
- Fault detection on motor, drive train and driven equipment
- · Automated spectrum analysis with immediate report
- No in-depth training required
- Comprehensive fault coverage
- Energy efficieny and time to failure information
- Cloud integration to IOT platform



Asset Management and

Energy Efficiency Toolkit





- · Decrease maintenance costs
- · Increase productivity
- Extend the life of equipment
- · Energy Saving
- Improve Safety



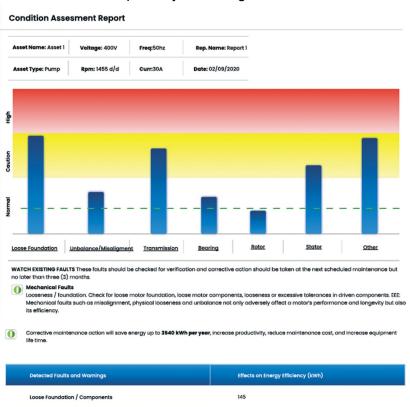
- Oil & Gas
- Energy
- Cement
- Metal
- Pharmaceutical
- Automotive
- Water
- Transportation
- · Food & Beverages
- Buildings

Applications

- Compressors
- Fans
- Pumps
- Conveyors
- Generators
- Centrifuges
- Nearly any AC Motor Driven Equipment

AMT Pro Features Condition Assesment Report

AMT Pro is compatible with 3-phase AC motors of fixed and variable speed and generators. Utilizing Artesis' revolutionary Model Based Voltage and Current Analysis, AMT Pro offers comprehensive fault detection capability covering electrical, mechanical and process related faults.



Detected Faults and Warnings	Effects on Energy Efficiency (kWh)
Loose Foundation / Components	145
Unbalance / Misalignment	145
Transmission Elements	145
Bearing	145
Rotor	145
Stator	145
Total	3456

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Fault Coverage



- Loose foundation/ components
- Unbalance/misalignment/coupling
- Transmission faults
- Driven equipment faults
- Bearing faults
- Rotor faults
- Stator/insulation faults

Process Faults

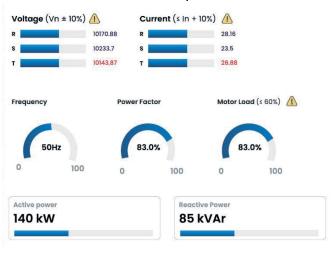


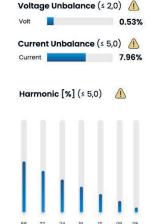
- *High energy consumption
- *Low efficiency
- *Cavitation in pumps
- *Flow turbulence in fans, blowers
- *Filter and heat exchanger fouling
- *Lubrication
- Oversize/undersize motors



AMT Pro Features Condition Assesment Report

Condition Assesment Report

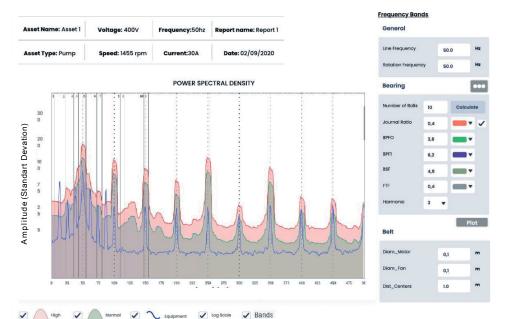




Electrical Parameter



- .Vr, Vs and Vt
- .Ir, Is and It
- .Frequency
- .Voltage Unbalance
- .Current Unbalance
- -Motor Load
- .Power Factor
- .Active Power
- Reactive Power
- Total and odd harmonics



Electrical parameters are compared with standard reference values indicating electrical faults as well as power quality issues.

PSD (Power Spectral Density) waveform tools offer advanced level of use for root cause analysis.

Test results simultenously sync to secure cloud-based server allowing access to the reports on an IoT platform.

COMPREHENSIVE CONDITION MONITORING





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