

Machine Fault Finder



FFT Based Diagnostics

Overview

Machine Fault Finder is a diagnostic tool to find the faults of a machine using FFT analysis. This tool is not specific to the model of vibration analyzer/data collector rather it uses the FFT spectrum data for diagnosis.

This application contains Bearing Database for most commonly used 30000 bearings.

Concept of this tool is to provide users the current defect situation in the machine or train as well as in individual equipment in that machine train.

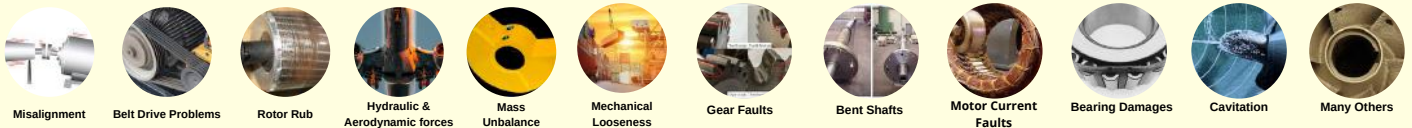
Features

- One of the simplest tools to operate.
- Equipment-specific diagnosis such as motor, fan, pump, belt, bearing, etc.
- Multiple result window options for multiple possibilities.
- Option of manual data filtering for more accurate results.
- Single click operation for default values.
- Option to insert data manually or from various file formats including CSV format.

Installation

- Simple Installation - USB flash drive or via internet.
- Shortcut is created on the desktop with name Machine Fault Finder.
- Standard licensing process based on string generation & secured by code from us.

Faults that can be detected using the tool are:



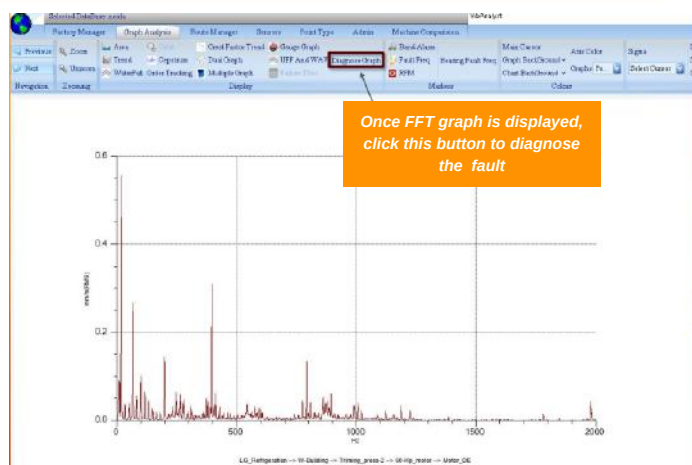
Operation

- Manual data entry for X, and Y values from FFT plus RPM.
- Automated data collection: Either directly from the Hardware devices or from the data file placed locally on the computer system. For some existing data collectors, this process is already in place. Others are in process. Alternatively, select data stored locally on the computer system. The type of files for this arrangement could be UNV/UFF, CSV, or FD2.
- Automated data collection from the instruments directly.



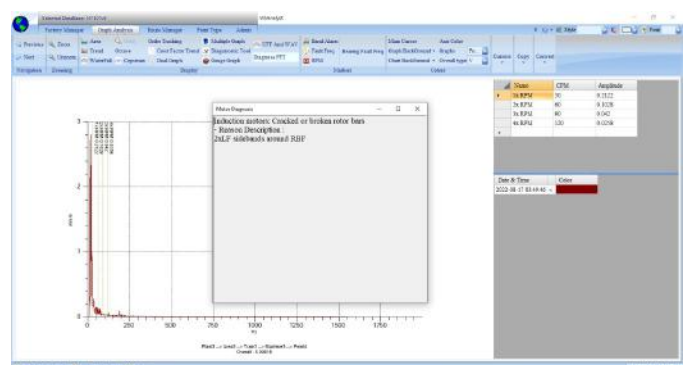
Basic Diagnosis

- This option provides users with the basic diagnosis based on the peaks irrespective of the machine type and settings.
- User can get an overview about the prominent faults .



Advanced Diagnosis

- This option provides diagnosis for specific equipment in machine train.
- This is a unique facility for finding out faults in individual equipment of machine train. The suspected or targeted equipment can be identified from menu and on a click of a button all defects pertaining to the concerned equipment are displayed.



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