



VIBRODESIGNER
SOFTWARE



VIBRODESIGNER Condition Monitoring Software

Maximum efficiency of maintenance processes

Today the industrial equipment maintenance cost is a significant part of total enterprise expenses and it comparable to profit occasionally.

One of the main objectives is machinery condition monitoring to keep optimal status of the processing parameters, for reduce maintenance cost substantially. Necessary and invaluable factor for solving these problems is to use the systems for collecting, displaying, processing and storage of diagnostic information. At the core of such systems can be used as portable devices for the regular collection of data, and permanently installed on-line condition monitoring systems. However, no matter what device or system is used for measurement, a critical factor is the availability of powerful and convenient software to get maximum results in the shortest possible time. Such a VibroDesigner software.

VibroDesigner - a powerful tool able to realize complete system solutions for any configuration and complexity, designed to implement all necessary measures for vibration monitoring and analysis of technological equipment.



VibroDesigner software is the most effective solution

VibroDesigner - flexible and easy-to-operate tool

- Usability
- Powerful functionality
- Modular architecture
- Full compatibility with portable devices and on-line systems



User friendly interface makes getting started of VibroDesigner software easy. Windows standard custom features are available in VibroDesigner software system, it does not require to spend more time for study of software.

On-line condition monitoring systems and hand-held portable devices are fully compatible with VibroDesigner software. The modular architecture of software system - is the basis for building modern systems, and optimal maintenance.



VibroDesigner Communicative Structure

Maintenance Manager



VibroDesigner-SCADA Client

Operator workstation



VibroDesigner-SCADA Client

Maintenance department Server



VibroDesigner (DB Server)

Diagnosis department



VibroDesigner-Standard Software

Ethernet

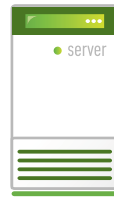


CTD modules



On-line Systems Server

RS485



VibroDesigner-SCADA Server

Maintenance workstation



VibroDesigner Standard

USB

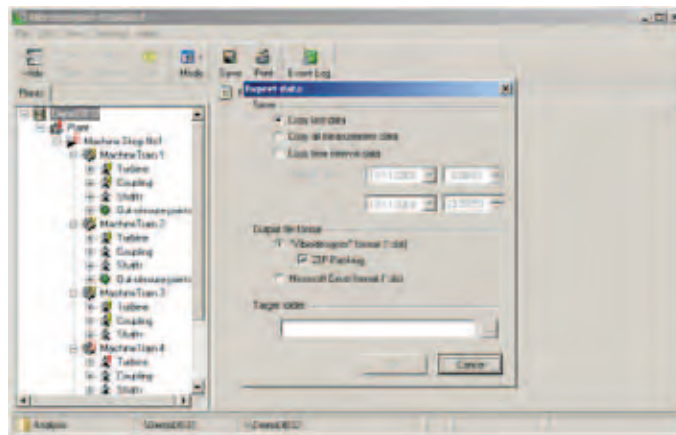
Portable Devices



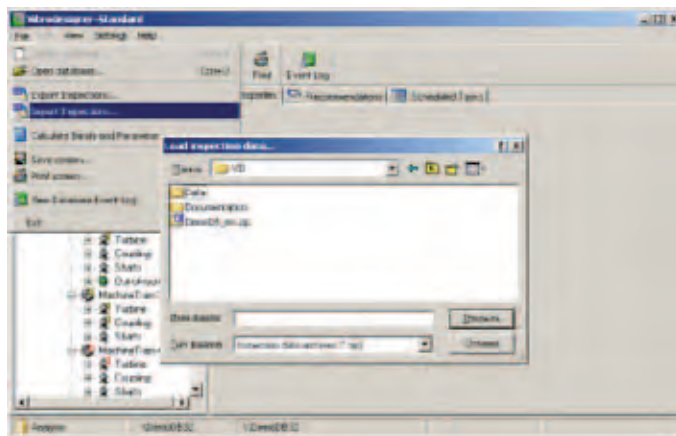
Ethernet



Full-featured system of diagnostic data management



VibroDesigner software is based on full-featured data management of the controlled equipment technical health information. VibroDesigner can be adapted to solve various problems. The basic set of functions allows you to clearly organize and direct the necessary information by standard tools of communication. Various possibilities of data export and import, both the structure and information (surveys), allow to transfer data for the subsequent structuring, storage and analysis convenient and easy.



The right data for all users

Providing data to each users in-time in the required amount.

You determine what information is accessible for users in accordance with the enterprise structure. It provides the right information for all user categories.

Maintenance Manager

Machinery status report

Shift report

Operator workstation (Control room)

Thresholds status

Control parameters reports

Alarm color indication

Current trends

Archived daily trends

Shift reports

Maintenance

Machinery status reports

Measurement data reports

Work instructions

Thresholds status

Current parameters analysis

Diagnostic department

Diagnostic specialist reports

Thresholds status

In-depth analysis of measurement parameters and history

Real-time analysis

Recommendations

Diagnostic center or service company (remote)

Diagnostic specialist reports

Measurement data reports

In-depth analysis of measurement parameters and history

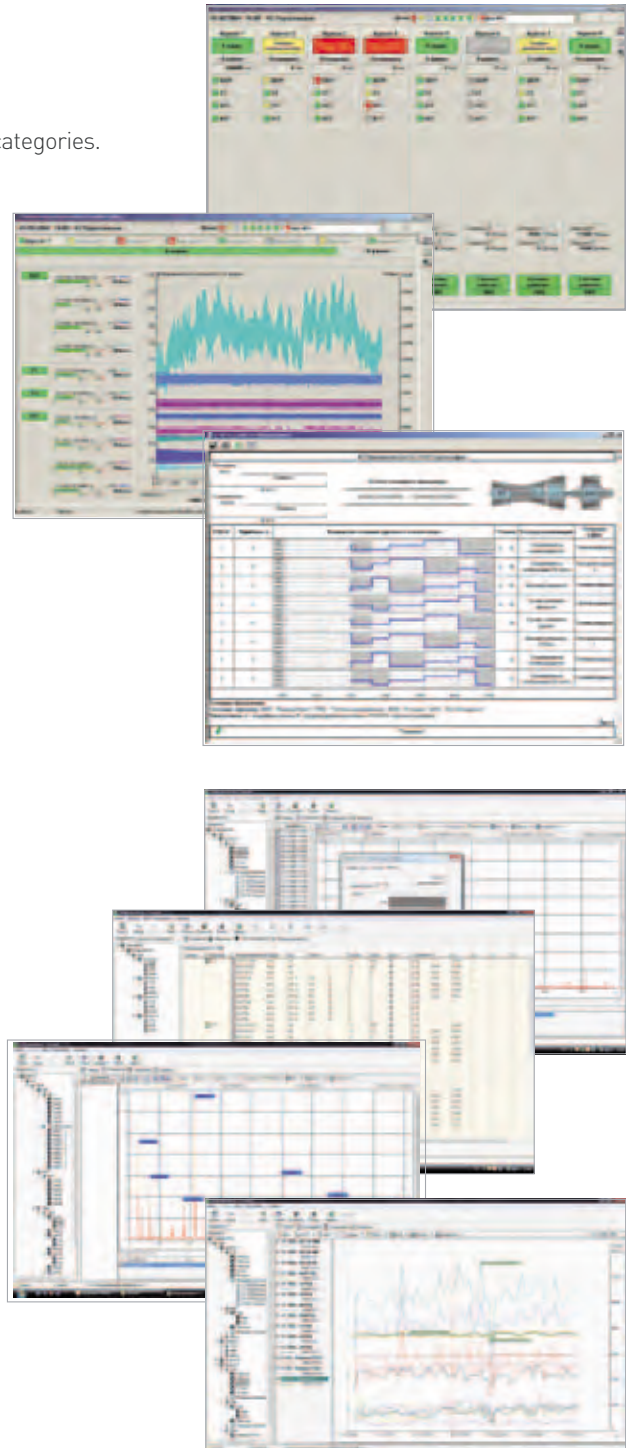
Thresholds status

PCS - Process control system

Vibration protection data

Control parameter

Thresholds status



VibroDesigner Software

VibroDesigner - SCADA

Server

Client

Software VibroDesigner-SCADA is used to construct on-line continuous monitoring systems and is designed for automated collection, storage and forwarding measurement information (Server package), as well as for a simple and clear visual display of plants and machinery for the Operator workstation (client package).

VibroDesigner - Standard

Software VibroDesigner-Standard is a powerful diagnostic tool for the collection, storage and in-depth analysis of vibration data.

The software allows a specialist in the field of vibration diagnostics - to control the technical condition of the equipment of the enterprise and timely manner, place and cause of fault aggregates.

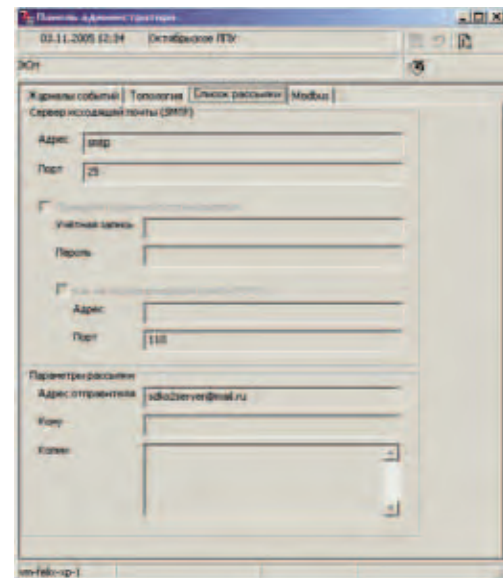
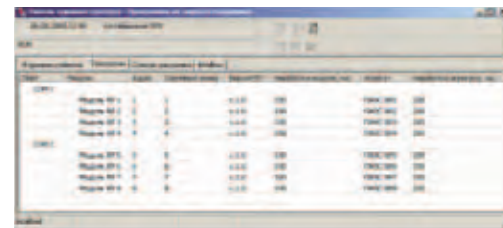
VibroDesigner - Archive

Software VibroDesigner - Archive is designed to automate the activities of diagnosticians companies related to the processing and storage of diagnostic data controlled units, coming from the business units.

VibroDesigner-SCADA Server

The server package is intended for the organization of the Server system of continuous monitoring of process equipment.

- Collecting information about current machinery conditions from CTD modules
- Receiving data via Modbus protocol or using OPC Server
- Computation of current machinery conditions of the whole workshop
- Daily trends maintenance
- Shift reports
- Automated analysis of subsystems current status
- Maintenance of daily trends archive in files form
- Collecting data from workshops' aggregates and maintenance of archive in files form
- Creating daily reports and maintenance of archive in files form
- Creating aggregate shutdown reports and maintenance of archive in files form
- Transmission of data files via Ethernet and e-mail to remote diagnostic center



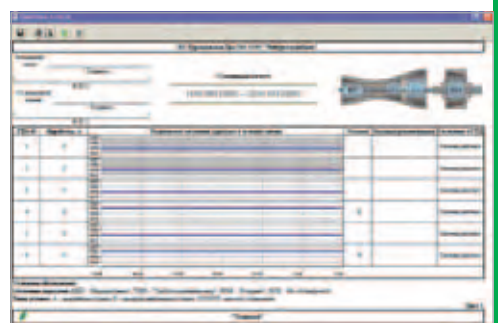
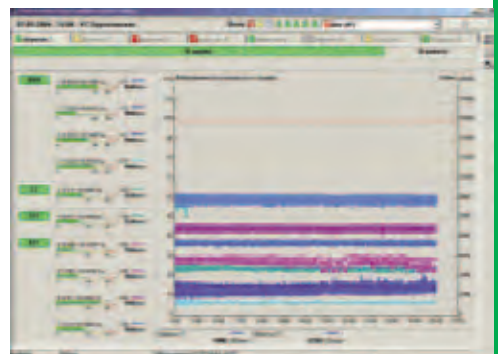
VibroDesigner-SCADA Client

The client package is intended for the organization of process equipment control in the operator's workstation, and helps the operational service in the following tasks:

- Opportune detection of changes in machinery technical condition
- Changes cause identification
- Condition assessment and making decision
- Reporting

VibroDesigner-SCADA Client features:

- Displaying of current condition of plant departments
- Displaying of current condition of each aggregate
- Displaying of current condition of aggregate subsystems
- Warning about changes in machinery technical condition (color visual and sounds)
- Making recommendations in case of any changes in machinery technical condition
- Trends displaying
- Shift reports displaying and printing
- Graphical analysis of daily trends (scaling, settings, prediction)
- Graphical analysis of rundowns



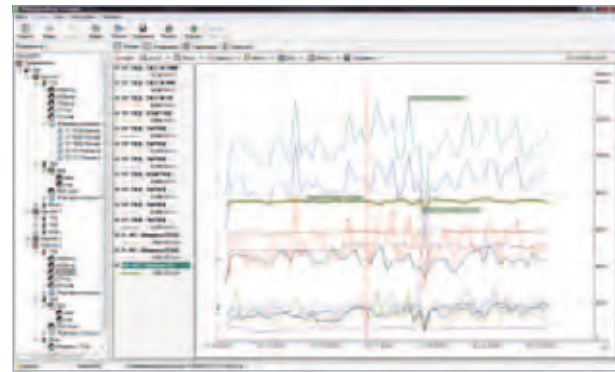
VibroDesigner-Standard

VibroDesigner-Standard - a powerful diagnostic tool for the collection, storage and in-depth analysis of the measurement data. The software allows a specialist in the field of vibration diagnostics to control the technical condition of the enterprise equipment and timely manner, place and cause of fault aggregates.

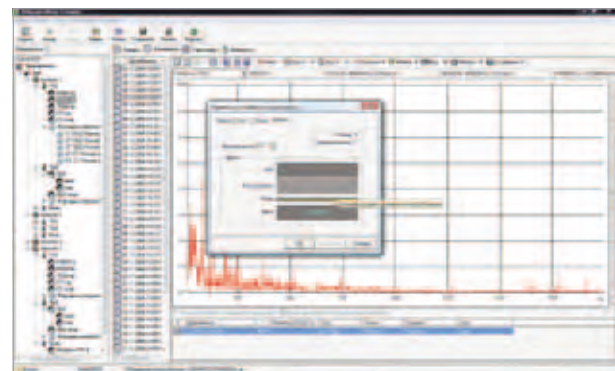
Machinery diagnostic – easy and clear

What is the cause of raised vibration? What element of the least fix it? How long will it still be able to operate? These questions can be answered by analyzing of specific frequency bands trends, narrow band spectrum analysis, analysis of Run-Up/Coast-Down and other types of analysis. By the trends it is possible to quickly identify the problem site and the reasons of the problem. VibroDesigner-Standard allows you to simply and reliably solve the problem of identifying machinery problem, predicting trouble-free operation and optimization of maintenance.

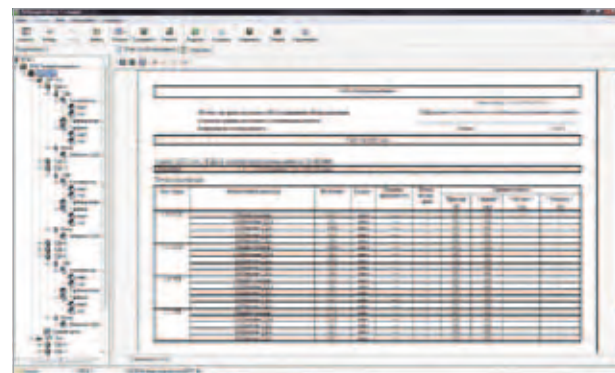
Trends and forecast



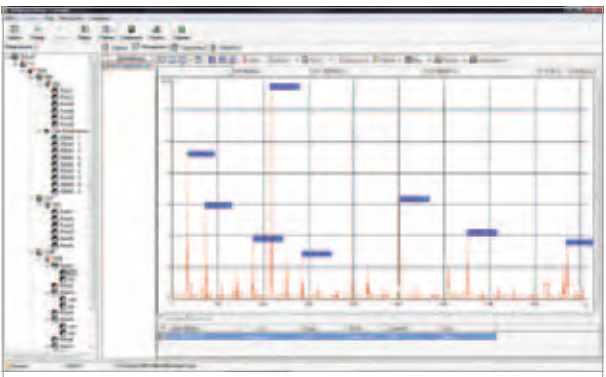
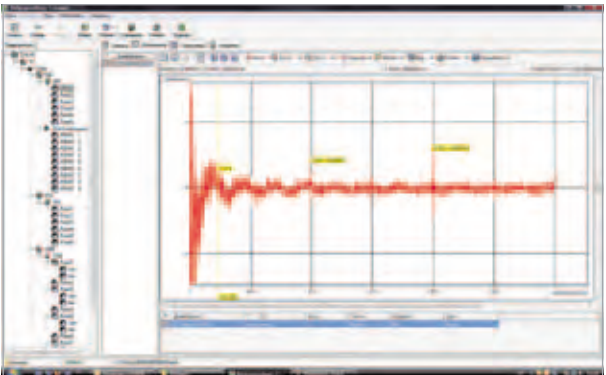
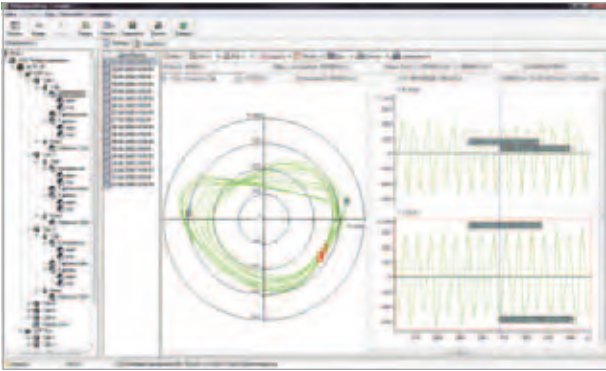
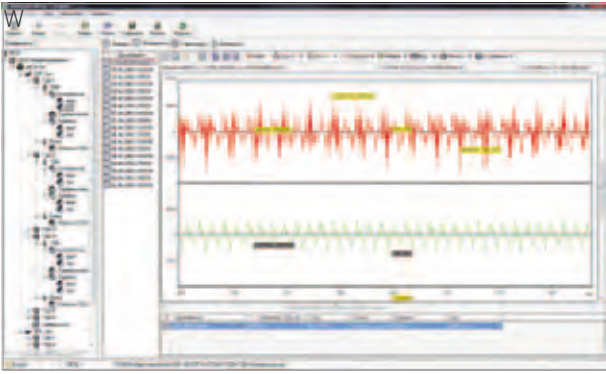
Various settings for graphic display



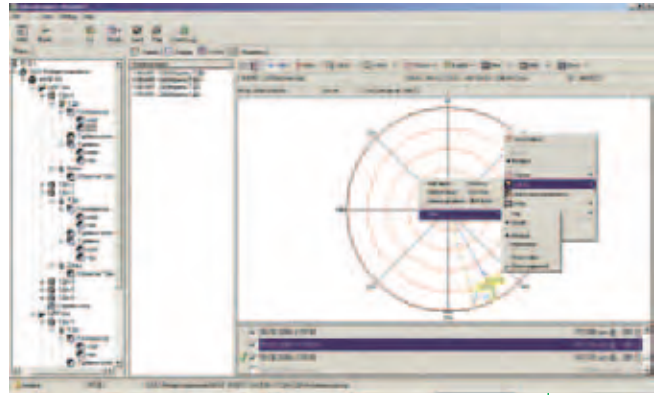
Report

A screenshot of the VibroDesigner-Standard software interface showing a report window. The report contains a table with multiple columns and rows of data. The table has a header row and several data rows. The interface includes a tree view on the left side and a menu bar at the top.

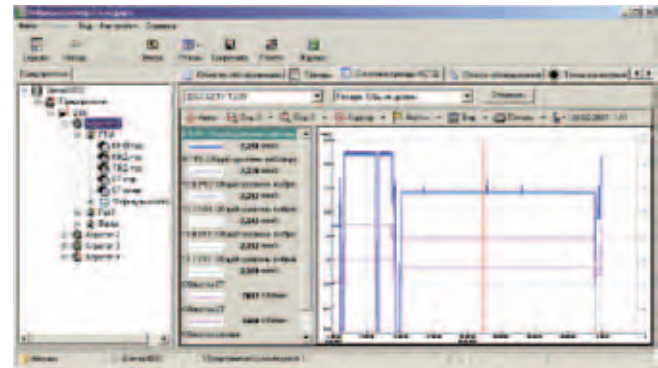
Waveforms, spectrum, orbits etc



Nyquist diagram



Daily trends

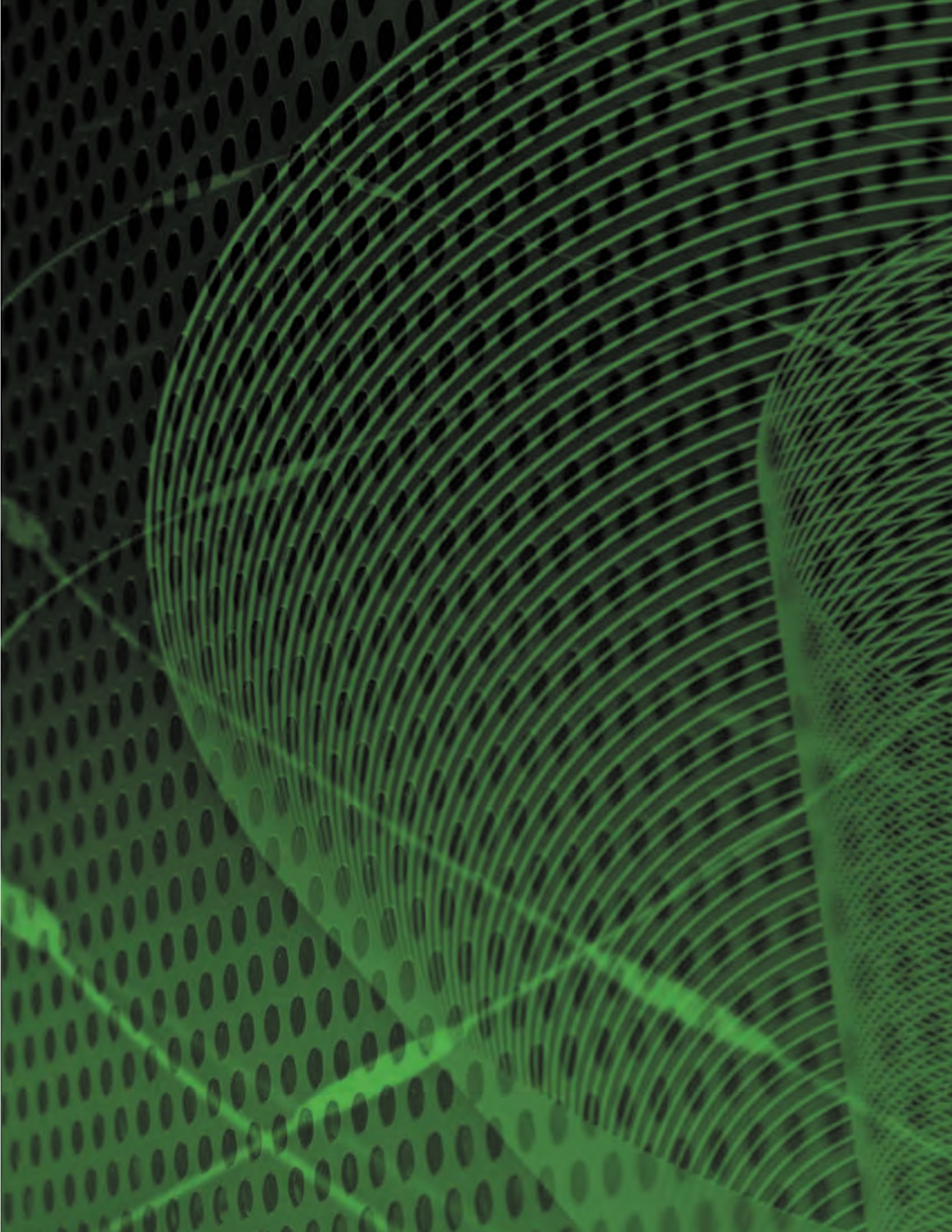


VibroDesigner-Archive

VibroDesigner-Archive provides automated data processing, generation and storing of diagnostics databases.

VibroDesigner-Archive features:

- Automated processing of e-mails with data, received via e-mail or local network from servers.
- Automated generation of diagnostics databases (VibroDesigner-Standard)
- Automated maintenance of rundowns archive in file set form
- Automated maintenance of daily trends in file set form
- Reports printing and view





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