

Since 1992, Technekon has been developing, manufacturing and implementing a wide range of machinery condition monitoring and protection systems. Over the years, we have gained a wealth of experience in implementation of technology-intensive projects in this area.

Technekon produces both portable condition monitoring and protection devices for routine machinery inspections and subsequent analysis, as well as complex, integrated systems for real-time monitoring and analysis of all equipment at a facility (ASTD – automated system for technical diagnostics).

ASTD is a diagnostic tool designed to provide continuous monitoring protection of equipment for an entire facility. This system generates data on equipment anomalies to enable condition-based maintenance.

Custom design allows monitoring systems to be implemented in a variety of options, from a basic low-cost package to a large-scale architecture with full range capabilities.

# STD-500 Vibration Data Collector

# FULL FEATURED AND AFFORDABLE EASY-TO-OPERATE

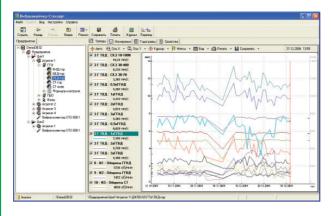
#### Vibration pen with:

- Overall vibration measurement and Built-in FFT
- · Bearing condition monitoring based on high frequency enveloping
- Store up to 500 points (LF waveforms or envelope waveforms)
- Route and off-route data acquisition
- PC connection via USB for detailed analysis



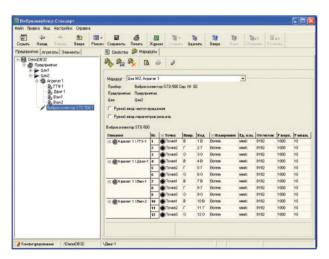
# **EASY AND QUICK OPERATION**





# **MULTIFUNCTIONAL**

From quick on-site analysis to the delailed data processing on your PC including spectrum analysis, trends creation, detection location and severity of faults: imbalance, misalignment, bed belt, bearing failure, soft foundation and maintaining machinary condition database.



# **ROUTE AND OFF-ROUTE USABILITY**

Uploading routes from Vibrodesigner Analysis Software facilitates both data acquisition and creating of a unified repository of diagnostics data by further automatic downloading data onto your computer.



## **EASY TO USE**

Only two buttons and intuitive menu make operation simple and convenient:

- Turn on your data collector
- Select a route/off-route measurement point
- Put a tip of accelerometer against the measurement point and press ENTER button
- When finished, "MEASUREMENT IS COMPLETED" message is displayed on the LCD. The measured value is shown, and collected wave is saved in the memory.



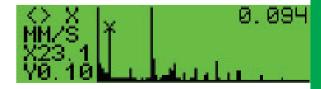
Power connector





MEASURING...

MEASUREMENT IS COMPLETED.





#### **EXTRA FEATURES**

- Bearing condition detection
- High frequency spectrum
- RMS, Peak and Peak-to-Peak for vibration measurement
- Free firmware update available via USB





MACHINE 1 002 02H HIGH-HOR MEAS. | 8.360

#### **MEASUREMENT**

Sensor built-in piezoelectric accelerometer

Measurement units Acceleration, Velocity, Displacement (P-P, Peak, RMS), CF

Measurement range 0,5 to 70 mm/s (0,02 to 2,76 in/s) RMS

Sampling 8192 Internal FFT 3200 lines

Units Metric and English

**MEMORY** 8 MB, up to 500 waveforms

DISPLAY

Type graphic, monochrome, with backlight

Size 122x32 px, 57x17 mm

PC CONNECTION USB

**POWER SUPPLY** 

Type LiPo, rechargeable
Operating during up to 10 hours
Charging during up to 4 hours

**ENVIRONMENT** 

Intrinsically save 1ExibIIBT3X

Case protection IP54

Tempreture -20 ... +50 C

Humidity 90%

**SIZE** 186x35x21 mm (7,3x1,4x0,8 in)

**WEIGHT** 0,150 kg. (5,3 oz)









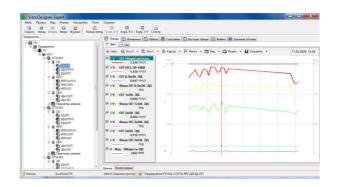
# VibroDesigner-Expert

VibroDesigner-Expert -- is a powerful diagnostic tool for collection, storage and in-depth analysis of measured vibration data. The program allows vibration specialist to control technical condition of the whole plant equipment and promptly detect and prevent equipment failures.

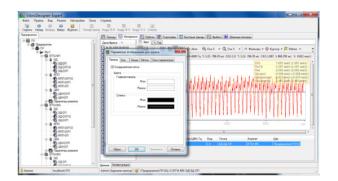
## Machinary diagnostic – easy and clear

What causes raised vibration? What is the failed element? How long it will be able to work? These questions can be answered by specific frequency bands trends analyzing, narrow band spectrum analysis, analysis of Run-Up/Coast-Down and other types of vibration analysis. Based on trends analysis it is possible quickly identify the problem site and the reasons of the problem. VibroDesigner-Expert allows you to easily and reliably identify machinery problems, predict trouble-free operation and optimize maintenance process.

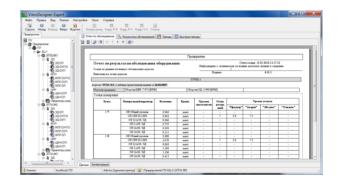
#### Trends and forecast



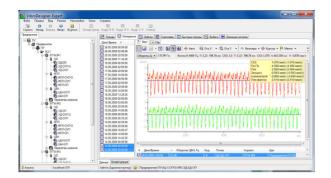
#### Various settings for graphic display



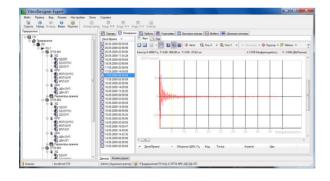
#### Report

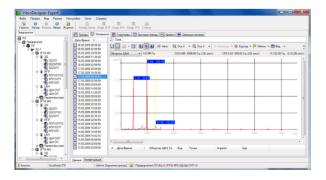


#### Waveforms, spectrum, orbits etc

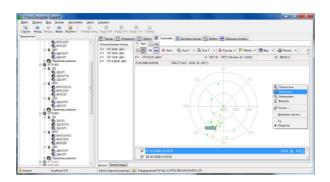


# | No. | Plant of Plant | Plant





## Nyquist diagram



## Daily trends

