Vibration Analysis, Machine Diagnostics, Field Balancing
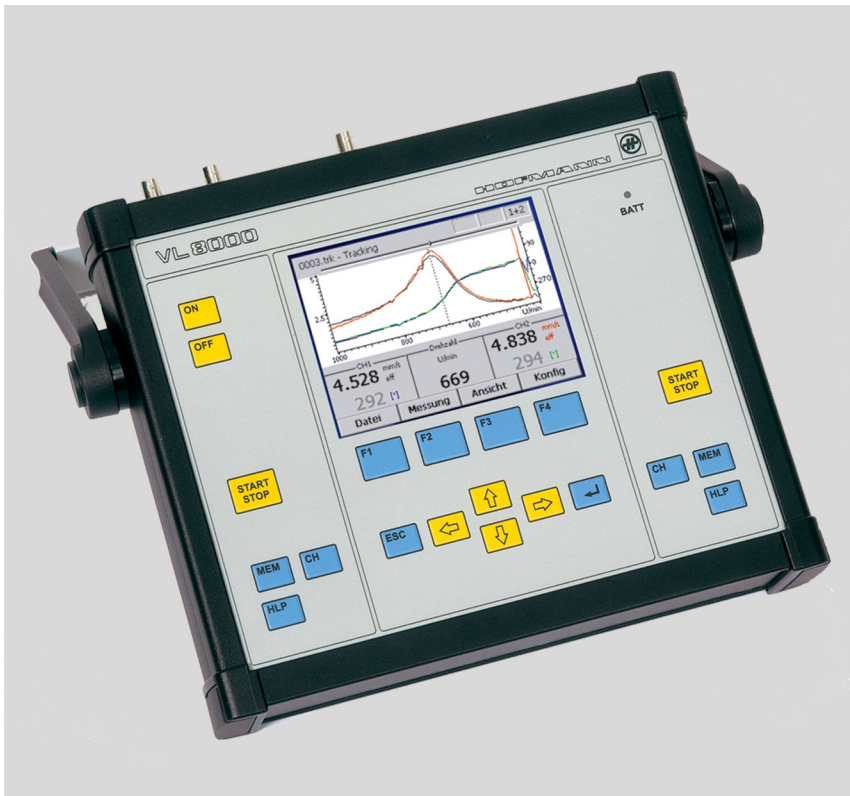
VibroLyzer VL 8000

Advantages

- Just switch it on and it's ready to go, thanks to its simple, reliable and intuitive operation and its very large, colour LCD

- Simple, reliable user menu

- Fast measurement using digital signal processor (DSP)

- Data evaluating, listing and archiving with PC software

- Upgradable due to modular software concept

- Integrated sensor monitoring for reliability

- Standard interfaces for compatibility

Applications

- Measuring vibrations on bearing and machine housings

- Recording the condition of roller bearings

- Observing and recording vibration data

- Analysing frequencies of a vibration (FFT)

- Evaluating resonance frequencies and transfer functions

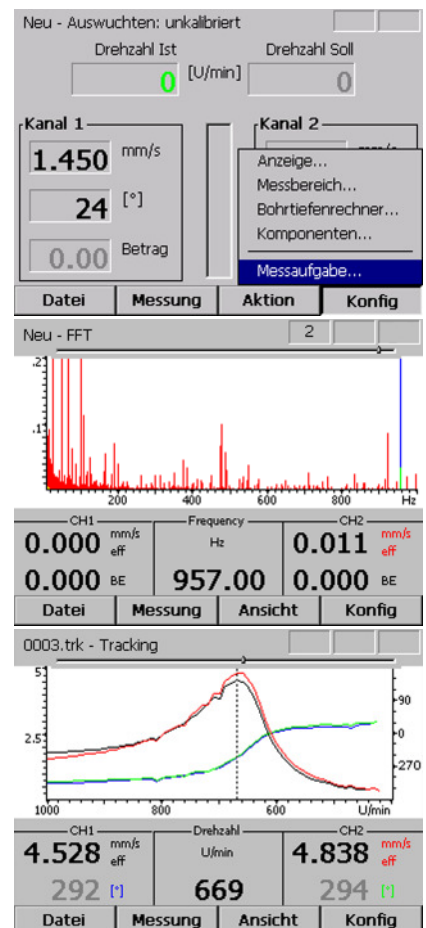- Detecting machine damage

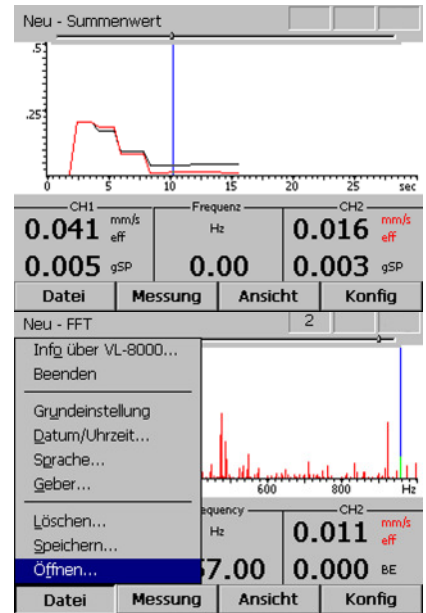- Field balancing on site

Description

Measuring vibrations, analysing measured data, detecting damage and its mechanisms, field balancing - with a modular design concept, the VL 8000 is a tailored tool for specific measuring or balancing tasks.

The VL 8000 provides systematically co-ordinated, powerful measuring and analysing tools.

Using the balancing procedure of the VL 8000, the unbalance can be corrected by drilling holes, for instance. In addition, calibration factors that change with the size of the unbalance can be taken into account.

The measurement values can be stored in the portable VL 8000 or they can be transferred directly to a PC for archiving or post-processing. A sophisticated power management system ensures long-lasting "cordless" mobility.

Technical data

Frequency / speed range	1 Hz - 5,000 Hz	60 - 300,000 rpm	
Display range	0.001 - 100,000		
Measuring values Units	Displacement µm, mm, µinch, mils, inch	Vibration velocity mm/sec., inch/sec.	Acceleration g
Vibration transducers	with IPG interface	with voltage output	
Connectors	1/2 BNC measuring inputs	1 speed input	1 speed output
	1 USB port	1 power supply	
Display	120 mm x 90 mm colour LCD	320 x 240 pixel resolution	
Operating system	Windows CE		
Battery run time	Minimum 2.5 hrs.		
Housing	250 mm x 250 mm x 45 mm	IP54	
Weight	2.3 kg		

Models

- **Basic Analysis**
  Overall vibration, bearing condition, FFT, single-channel measurement
- **Tracking**
  Same as Basic Analysis, plus tracking analysis
- **Balancing**
  Same as Basic Analysis, plus field balancing in one or two planes

Options

- **Tracking**
  for Balancing version
- **Second measuring channel**
  for Basic Analysis or Tracking version
- **Order analysis**
  Additional software for tracking
- **Correction**
  Conversion of unbalance into special correction methods for Balancing
- **Envelope**
  Expanded analysis tool for damage detection at an early stage
- **VL 8000 PC**
  PC evaluation software

Scope of supply
VL 8000 Basic Analysis

- 1 VibroLyzer VL 8000
- 1 Power supply / charging unit
- 1 Vibration transducer HMA 1140, cable length 5 m
- 1 PC software
- 1 Retaining magnet
- 1 Carrying case
- 1 Operating instructions

All information without obligation, subject to change without notice!