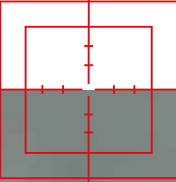# VIBSCANNER®
Data collection & machine diagnostics

- Advanced signal analysis (option)

- Balancing in 1 or 2 planes (option)

- VIBCODE® compatible

- Intrinsically safe (option)

The clever data collector for better maintenance

VIBSCANNER® is an offline condition monitoring system for predictive maintenance. Its comprehensive measurement and analysis functions and the convenient joystick for navigation make this handy instrument ideal for everyday inspection routines.

Totally compatible with the OMNITREND® PC software it gives analysis and reporting functions in an easy to understand format to prevent catastrophic machine failure, unplanned production downtime and consequential damage to process equipment.

VIBSCANNER®: One for all ...

❶ Sensors & interfaces
Measure important parameters directly. Use built-in transducers or external sensors attached to rugged connectors.

❷ ISO alarm display
Four LEDs for 'everything's OK' (blue), 'pre-warning' (green), 'warning' (yellow) and 'alarm' (red).

❸ Graphic display
Backlit screen with large intuitive symbols and text in different languages.

❹ Joystick navigation
Easy to use, simple to learn! One joystick and two function keys are all the operating controls you need – whether you are right or left-handed.

❺ Power to last
A practical quick-change rechargeable battery in the handle guarantees 8 hours of operation.

Well equipped
VIBSCANNER® measures the most important machine parameters on rotating equipment. All the sensors required are built into the instrument.

- Vibration
- Bearing condition
- Temperature
- RPM
- Process parameters
- FFT spectrum
- Signal analysis
- Balancing

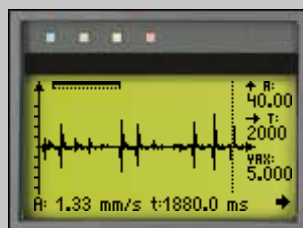VIBSCANNER® is protected by a rugged, waterproof and dustproof case. An intrinsically safe version is also available.
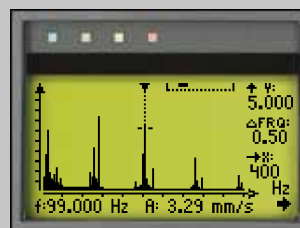
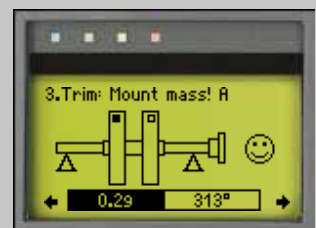| TRENDING	SIGNAL ANALYSIS	MACHINE DIAGNOSIS	BALANCING
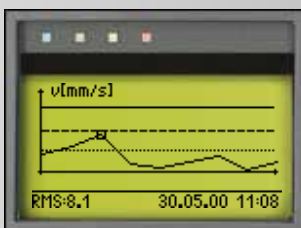
Use trend curves to follow the development of machine defects.

Time signals and orbits detect damage in low-speed machines, gearboxes or turbo machinery.

FFT analysis with enveloping is provided for the diagnosis of machine condition, bearing condition and gear faults.

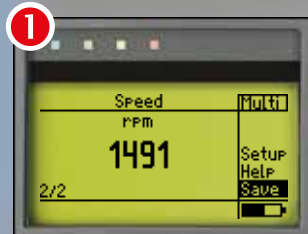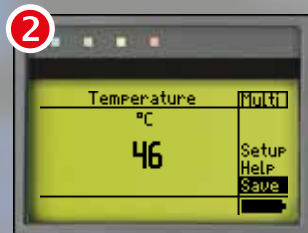Allows one or two plane machine balancing in situ.

⟨Ex⟩ C E

Take-along convenience with built-in sensors!

Up to speed?
Non-contact RPM measurement from distances up to 0.5 meters with no need for reflective tape – even in poor light. A bright red pointer beam helps in directing your aim at the rotating shaft.

Takes the heat for you
The retractable, flexible temperature probe ensures optimal surface contact for quick, accurate readings – even in liquid. When higher temperature ranges are needed, external probes are available.
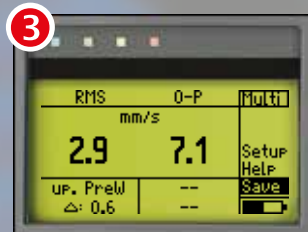
Good vibrations
The rugged, patented accelerometer measures machine vibration as well as the high-frequency shock pulses emitted by anti-friction bearings and cavitating pumps – for a total of three different machine signals all at the same time.

Unmistakable connectors
Color-coding of the input and output channels as well as the connecting cables prevents confusion.

All the right connections

Blue – in
Nearly any transducer (ICP®, CLD*, Pt100, AC, DC,...) can be used to measure analog signals.

Yellow – out
Data exchange with the PC, the measurement of digital trigger signals and the output of analog signals for headphones and analysis devices is carried out via the yellow interface.

*CLD: **C**urrent **L**ine**D**rive

Data collection with VIBCODE® or 'machine scanning'

Easy data collection with 'machine scan'

Run through non-VIBCODE® measurement locations using a graphical route. VIBSCANNER® graphically displays the next measurement point location with its direction of measurement. This prevents measurement locations from being overlooked or mixed up.
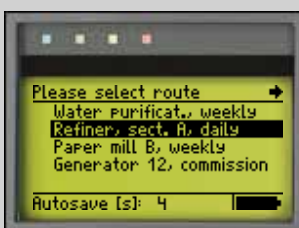
Coded measurement locations

Positive identification!

VIBCODE® is the world's first intelligent, field-tested transducer system to recognize its measurement locations automatically – at an unbeatably low price. The probe locks onto the measurement stud via bayonet mount and reads its encoded plastic ring. Then it reads the machine signals programmed for that location. VIBCODE® therefore delivers extremely reliable trending results by ensuring that the location, measurement direction and probe pressure are exactly the same each time.The new VIBCODE® transducer now also measures signals on low-speed machines (as low as 2 Hz).

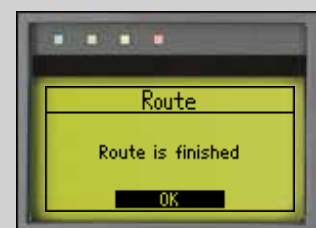| STEP-BY-STEP	ADAPTIVE ROUTES	ELECTRONIC NOTEPAD	DON'T FORGET
Collect machine condition data in a predefined measurement route or use VIBCODE® for automatic data collection. As soon as VIBCODE® is connected to a measurement location, the programmed measurement tasks start automatically.	Measurement values are compared to alarm limits and stored. If alarm conditions arise, additional diagnostic measurements start automatically.	Next to measurement tasks, visual inspection tasks appear as a pick list for entry of inspection data. (e.g. 'Check oil level')	VIBSCANNER® indicates the end of the route – namely when all measurement locations have been completed.
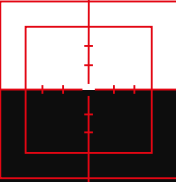
Balancing in 1 and 2 planes

Clear indication
After every measurement, the position and weight of the correction masses appear.
The 'Smiley' shows that required balancing quality has been reached.
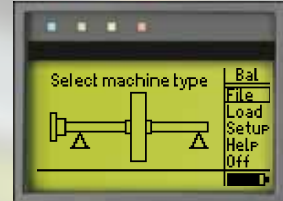
Flexible balancing
Correct unbalance with fixed-mass balancing weights, fixed correction locations (e.g. for blowers) or by tape measure positioning. Choose between adding masses or removing weight by boring into the rotor.
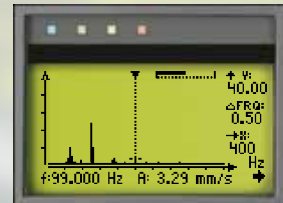
Intuitive operation
Graphical step-by-step operator guidance for an extremely easy yet accurate balancing procedure.
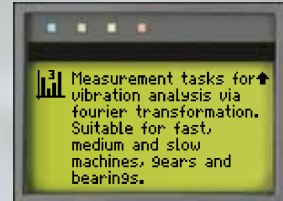
Diagnosis by FFT

Also for bearings and gears
As well as standard spectra, VIBSCANNER® measures enveloped spectra to diagnose bearing and gear meshing problems. Spectra can be zoomed with the joystick, facilitating field evaluations.
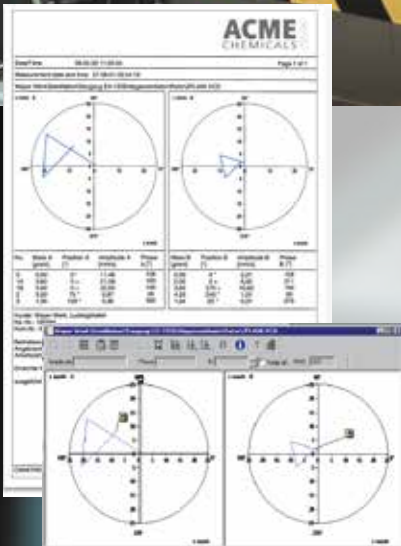
The correct setting
How to measure high-speed gears or low-speed machines? VIBSCANNER® has all the answers in optimized and predefined setups.

Analysis in detail

Going into orbit
The movement of a rotating shaft is measured sequentially in both the X and Y axis and displayed as an orbit.

Temporarily 'online'
Overall values or spectra can be recorded at scheduled times in order to identify the problems in troublesome machines - almost like an online system!

Report function
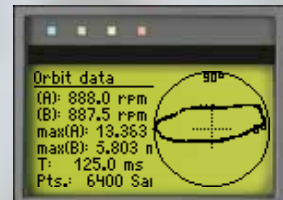Reports are very simple to compile and print out.

Activating software
The optional balancing, signal analysis and recording modules are simple to activate in VIBSCANNER® by entering a password – without any changes to the hardware or any additional program updates.

PC software for storage, analysis and reporting

OMNITREND®: One for all

OMNITREND® allows you to define your condition-monitoring procedure, to store and to analyze data, to create comprehensive reports and to communicate with all your PRUFTECHNIK condition monitoring products such as: VIBSCANNER®, VIBXPERT®, VIBROTIP®, VIBROWEB®, VIBNODE® and VIBRONET® Signalmaster.
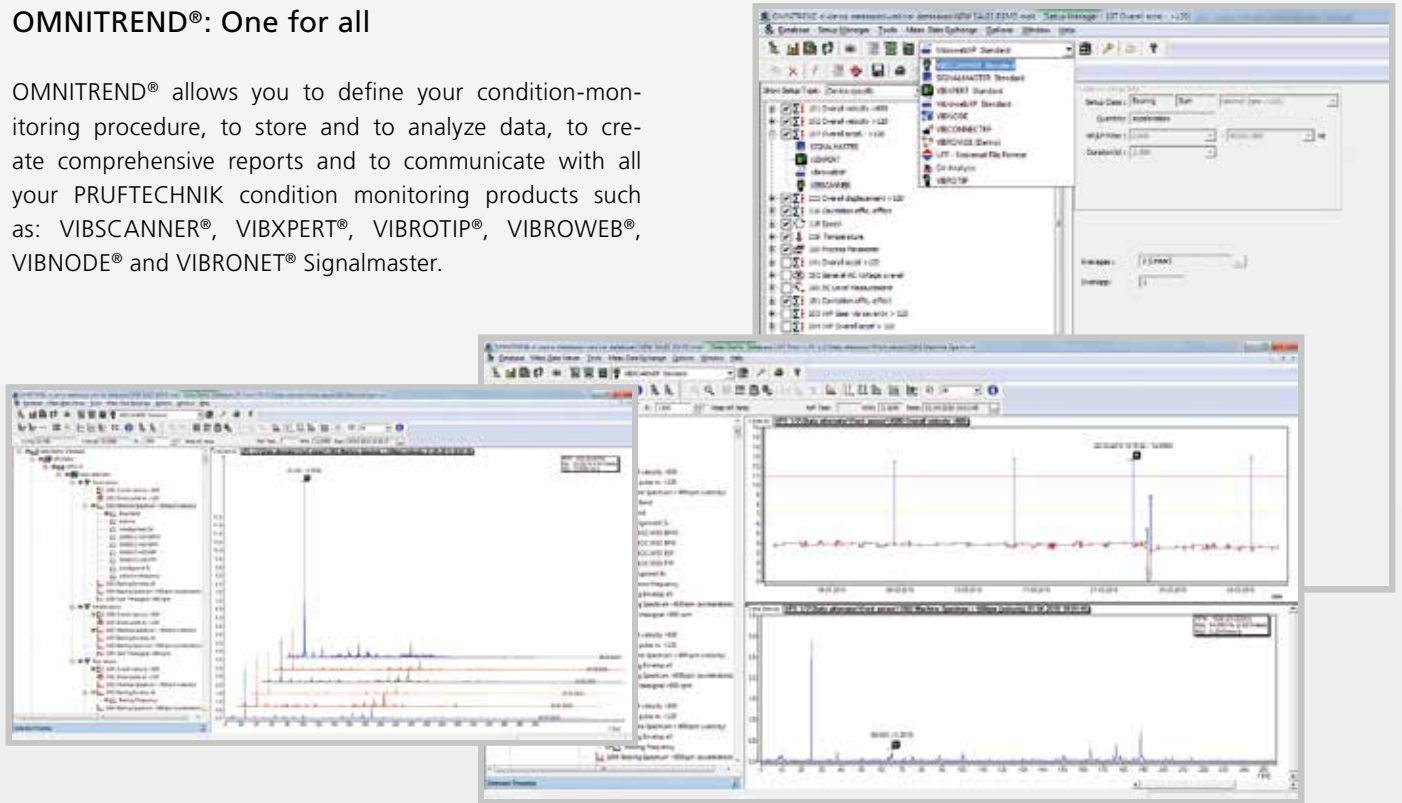
| ALWAYS IN THE PICTURE	THE RIGHT SETTING	IMPORT-EXPORT	A SERIES OF SPECTRA	OFF THE NEXT ROUND
The clearly-structured database enables a quick localization of the measurement data. The data can then be visualized and combined in trend curves, spectra, time based signals or orbits.	Optimized settings for almost every measurement task are stored in OMNITREND®. The software knows which measurement instrument can use which set-up in order to avoid incorrect settings.	All recorded data (route, multimode) is transferred onto the PC and placed into the OMNITREND® database. For synchronizing and archiving existing data records, data can be imported from other OMNITREND® databases. The export of data in a standard format (ASCII) enables the data to be converted into other database formats.	A spectra waterfall diagram makes it easy to see changes when looking at multiple spectra for data analysis.	Creating a VIBSCANNER® route is particularly easy as every machine can be represented graphically. Use 'drag & drop' to position measurement locations, which are then shown on the VIBSCANNER® display.
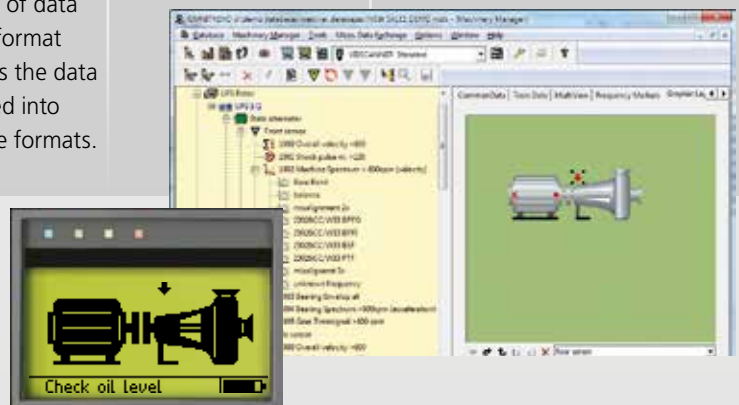
PRUFTECHNIK

proven technology for all industries

With our products, processes and services for alignment applications, condition monitoring and availability optimization, we help ensure that your machines run smoothly and generate an output of consistently high quality. This also includes systems for automatic process control and quality assurance that are integrated directly in your production process.

PRUFTECHNIK delivers maintenance solutions worldwide

Alignment Systems

Laser measurement systems and services for optimum alignment of machines and systems.

Condition Monitoring

Vibration measurement systems for machine condition monitoring – including services such as machinery fault diagnosis.

Nondestructive Testing

Systems and services for quality assurance and process control in production.

Service & Support

We offer professional services anywhere in the world to support our customers with alignment and condition monitoring.

Known Consignor in air cargo transport with LBA registration no. DE/KC/00803-01/0218 + DE/KC/00803-02/0218

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db PRÜFTECHNIK

PROVEN QUALITY

▶ Made in Germany
▶ Global Presence
▶ Qualified Support
▶ Quality Service

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