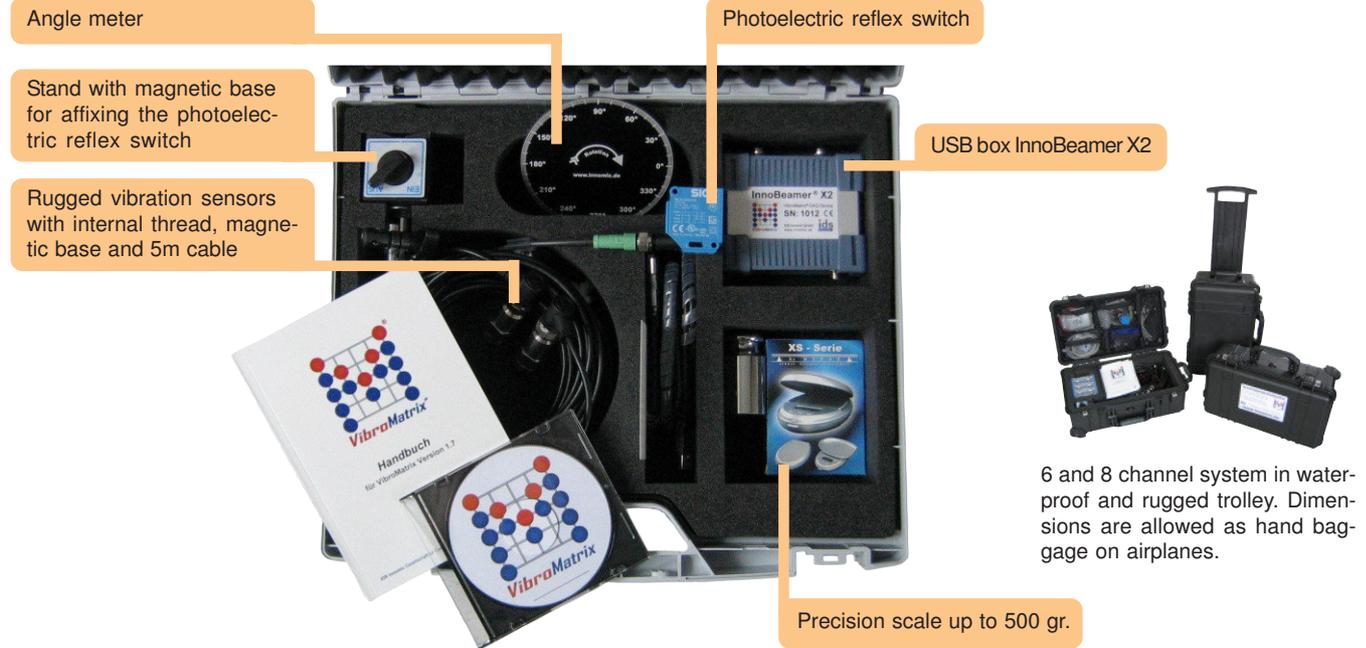




VibroMatrix® Kit

Machine Diagnosis and Balancing



The VMSet-03 and VMSet-04 come in a handy case and provide you with everything you need for the diagnosis of vibration problems and their elimination. The VMSets are applied on e.g. fans, pumps, electric motors / generators and components like roller bearings and gearboxes.

With these kits you answer, amongst others,:

Which are rotational speed and vibration level in a selected frequency range, vibration level at rotational speed or its multiples?

How is the allocation of the vibration levels in the complete frequency range, at which rotation speeds is the machine getting resonant, how high are the vibration levels then? What are the natural frequencies? Are the measurement points vibrating synchronously or oppositely?

How high is the unbalance and how can it be balanced?

Thanks to the high flexibility of the VibroMatrix-System, you are prepared for the measurement of vibration parameters acc. to different standards.

The system works on a PC or notebook and is suitable for both, mobile field work and stationary applications,

e.g. in research and development or quality control. Extra mains adapters are not required, VibroMatrix is supplied by the USB data cable.

High-quality piezoelectric accelerometers provide precise measurement signals. A photoelectric reflex switch permits, amongst others, the synchronization of measurements with the rotation speed.

The instruments are combined on the screen acc. to your needs. A suitable configuration can be saved and loaded again within seconds when required.

You export measurement data and graphics fast as lightning into files or your word processing. Thus you have compiled a conclusive documentation quickly.

Simultaneously with real-time measurement, you can record the raw data stream. If you need more details of your measurement later or want to present interesting processes to your colleagues in the office, you can replay the data like a live measurement. The configuration of the software instruments can even be different from the one during the original measurement.

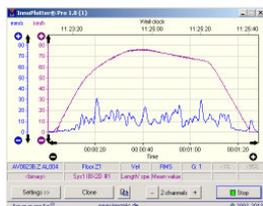
More channels? No Problem, several measurement kits can be combined to a multichannel systems.

	VMSet-03	VMSet-04	VMSet-05	VMSet-06	VMSet-07
	1 Channel	2 Channels	4 Channels	6 Channels	8 Channels
Hardware					
Sensor for Vibration Measurement	<ul style="list-style-type: none"> - Type: Piezoelectric accelerometer, shear design - Sensitivity: 100 mV/g, linear frequency range: 0.13 .. 22000 Hz - Operating temperature: -20 .. 120 °C - Protection grade: IP67 / Insulated case avoiding ground loop problems - Accessories: Screwable clamping magnet, 5m cable 				
Amount	1	2	4	6	8
Sensor for Reference Position	<ul style="list-style-type: none"> - 1 piece opto-electronic sensor - Scanning range: Maximum 7m, response time: < 330 µs - Protection grade: IP67, operating temperature: -40 .. 60 °C - Accessories: Stand with switchable magnetic base, 5m cable, reflection foil 				
Additional accessories	<ul style="list-style-type: none"> - Angle meter specialized for balancing, precision scale incl. test weight 				
USB Box for Digitization	<ul style="list-style-type: none"> - InnoBeamer X2 - Inputs: 2x analog for vibration sensor(s), 1x digital for photoelectric reflex switch - Signal frequency: 0.1 .. 40000 Hz - Supply current: < 500 mA with supply of all sensors - no mains adapter required - Operating temperature: -20 .. 50 °C, weight: 350 gr. - Accessories: Synchronisation cable and 1m USB cable 				
Amount	1	1	2	3	4
Software Licenses					
InnoMeter Pro	1x	2x	4x	6x	8x
InnoPlotter Pro	= up to 4 measurement windows for each instrument simultaneously	= up to 8 measurement windows for each instrument simultaneously	= up to 16 measurement windows for each instrument simultaneously	= up to 24 measurement windows for each instrument simultaneously	= up to 32 measurement windows for each instrument simultaneously
InnoScope Pro					
InnoAnalyzer Pro					
InnoAnalyzer Speed Pro					
InnoBalancer Pro			2x	2x	2x
Free Replay	1x	1x	1x	1x	1x

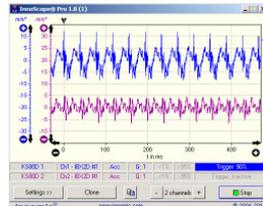
This rich software equipment allows an extensive analysis of the vibrational behavior of your machines/plants. Without further ado, it is possible to take down or extend equipment purposefully. We are at your disposal for advice.



InnoMeter Pro:
Parameters at a glance



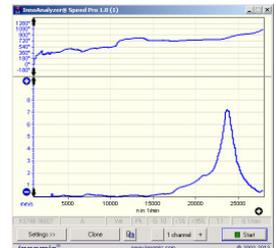
InnoPlotter Pro:
Monitor parameters in time domain



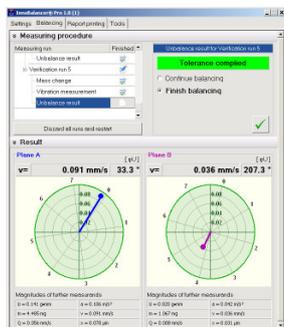
InnoScope Pro:
Display vibrations in time domain



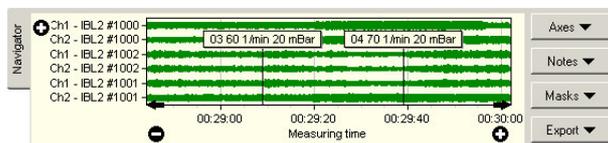
InnoAnalyzer Pro:
There are vibrations at which frequencies?



InnoAnalyzer Speed Pro:
Resonances occur at which rotation speeds?



InnoBalancer Pro:
Precise elimination of unbalances



InnoMaster Replay

Always inclusive: Recording raw data during the measurement. Replay live data with the InnoMaster Replay. By means of **FreeReplay** option, third parties can download VibroMatrix without costs and then analyse the raw data transmitted by you.

Changes without prior notice

February 2016

— D e u t s c h l a n d —

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