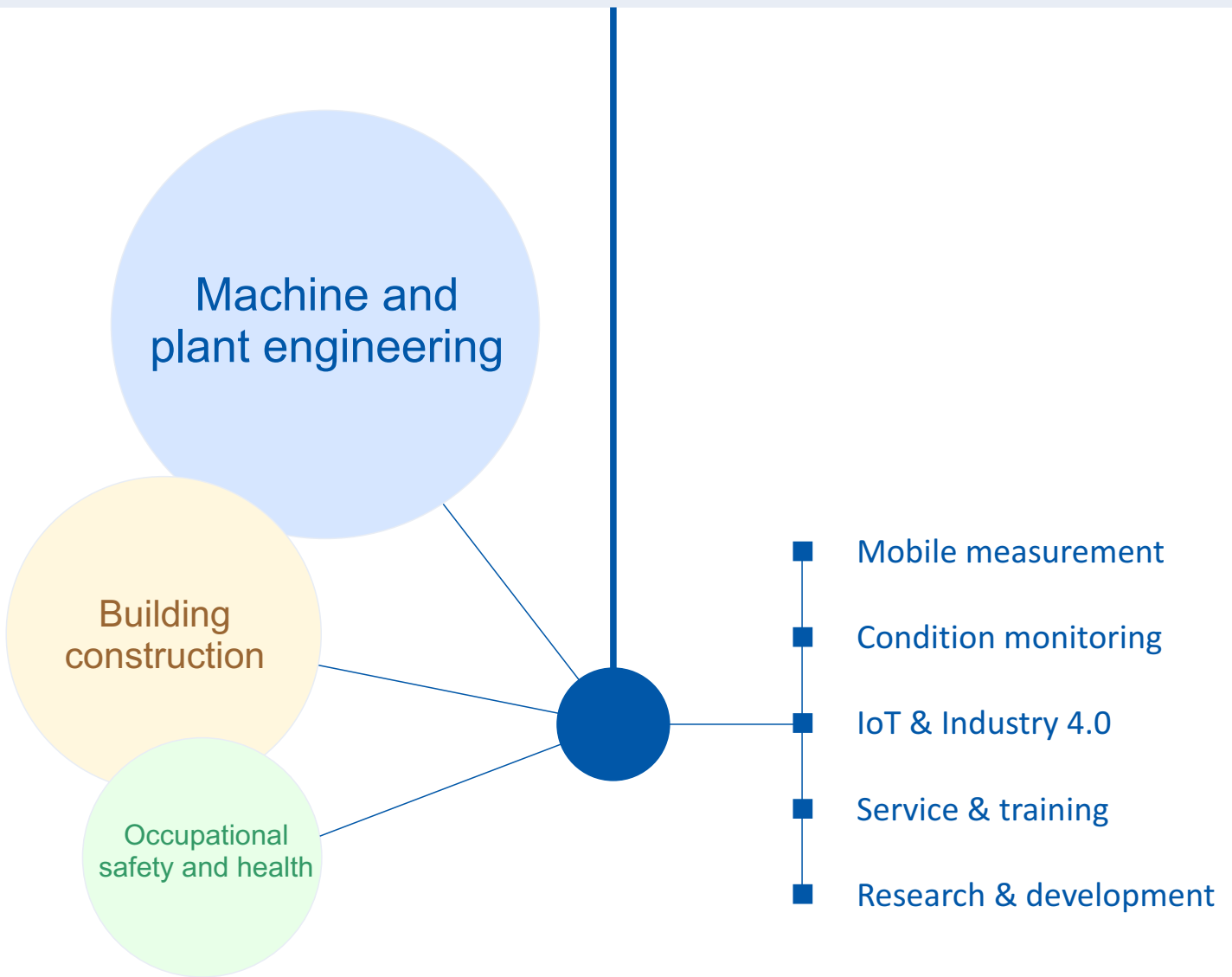
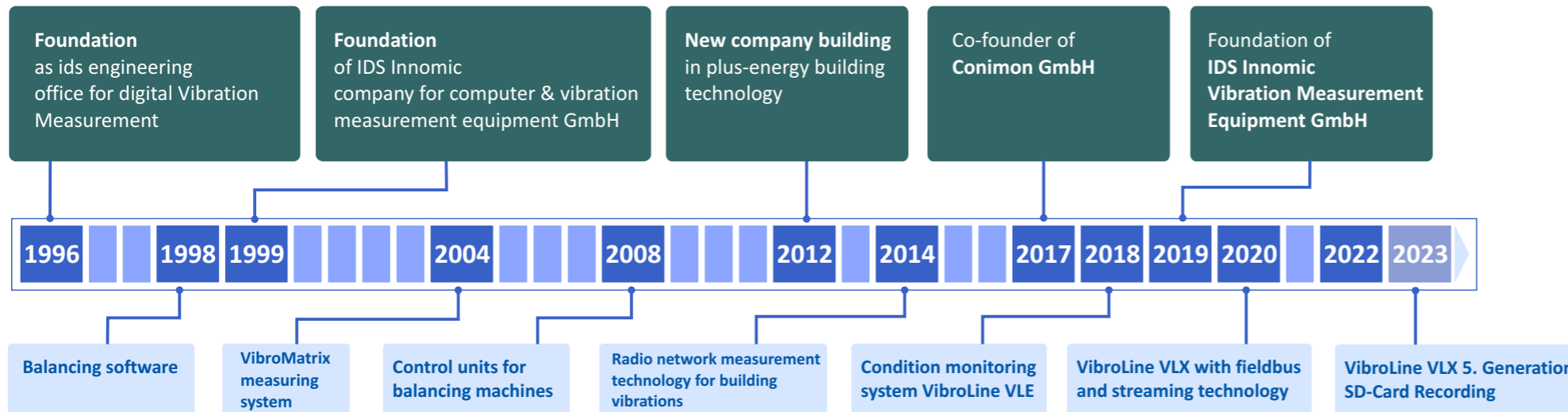


# Vibration Measurement Equipment Manufacturer



## History



## Location



## Systematically to the goal

With over 25 years of experience in vibration measurement technology, we deliver reliable products and ideas reliably and in the highest quality from the heart of the Altmark region. In doing so, we place the highest value on a high level of development and production depth across all phases of the creation of our products, so that we can react as independently and efficiently as possible to customer requirements at all times. Our team, consisting of engineers and physicists, from science and economy, guarantees a competent interaction in the implementation of your projects, supply of measurement technology, and of course in the support, application and commissioning.

## Challenge us!

We would also be happy to discuss your requirements and wishes in a personal meeting at your site. We will not only present our products in general. If you wish, we can also show you the options available to you in a practical measurement on your machines.



## Fields of application

## System solutions

Motors   Pumps   Fans   Processes   Machine tools



### Machine and plant engineering Construction & Development



**Vibration in construction**  
Effects on people & buildings  
**Micro vibrations**  
Serviceability of buildings



**Occupational health and safety**  
**Human - Vibration measurement**  
Hand-Arm & Whole Body

### VibroMatrix® Measuring Kit



### VibroLine® Condition Monitoring



### Vibration analysis and monitoring • complete from a single source

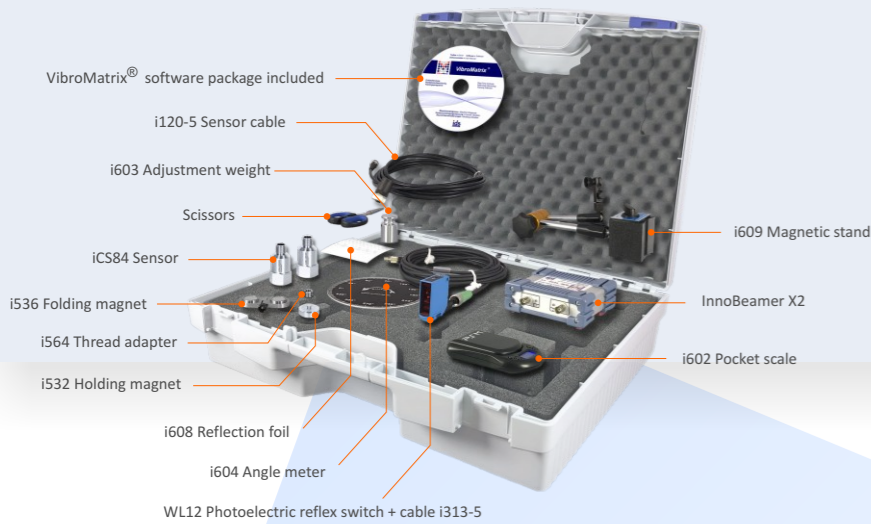
From the sensor to the evaluation, we supply high-quality coordinated components from our own development and selected production for the entire measurement chain. For mobile vibration measurement on site, the measurement kits of the **VibroMatrix®**-system contain all necessary components for measurement, recording and online/offline analysis.

**Condition monitoring** with **VibroLine®** offers seamless monitoring of the vibration status of machinery and equipment and can be seamlessly integrated into existing control systems and control cabinets via analog and digital interfaces.

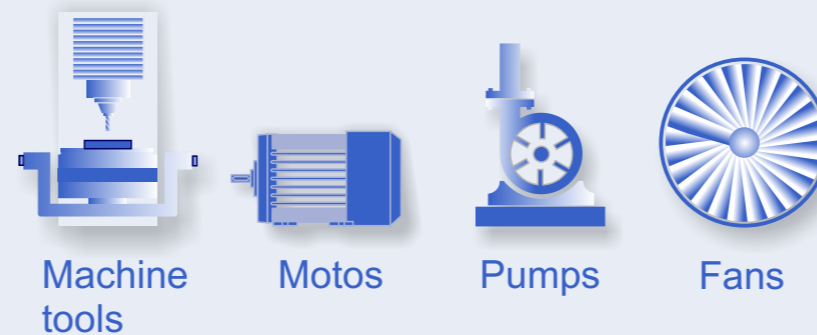
In addition, we offer extensive support in the implementation of your project by our certified vibration measurement technicians as a **service and in the training program.**

**VibroMatrix®**  
Measuring Kits

## Measuring Kit



## Application



## Windows computer



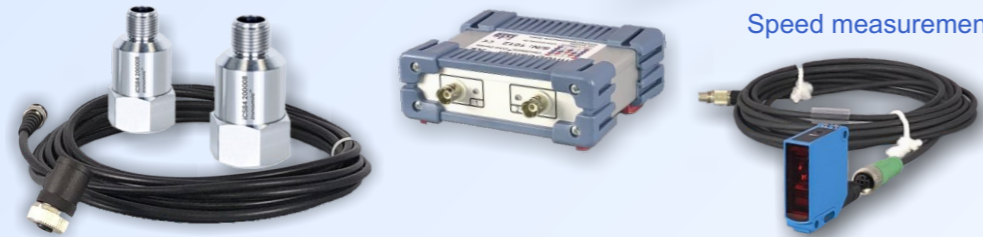
**USB 2.0**

**VibroMatrix®**  
Software Modules

Sensors & cables

AD converter

Speed measurement



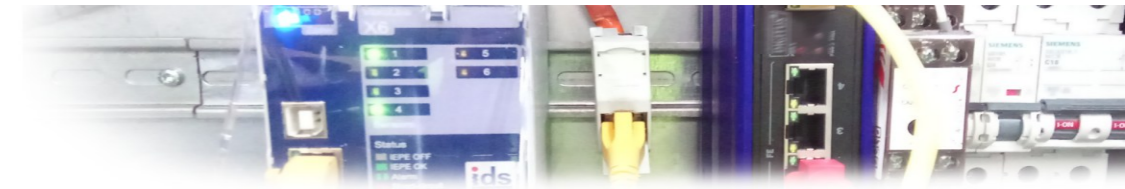
calibratable measuring chain

### Measurement technology and accessories as VM case set suitable for the application

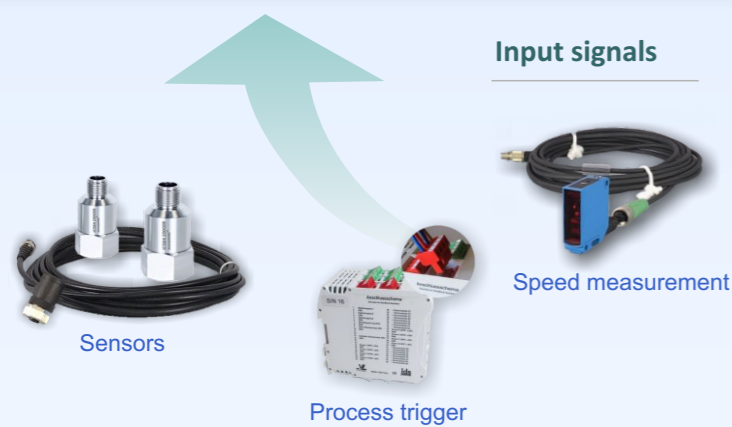
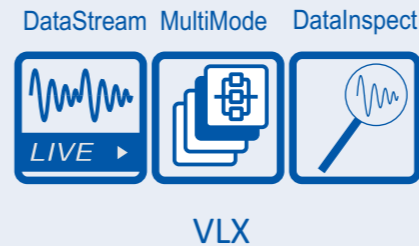
Measurement cases for the most common applications in **Machine engineering**, **structural vibration** and **human vibration measurement**, fully configured with all necessary sensors, cables and coupling accessories. If required, also individually assembled according to your requirements.

- Time signals, Orbit **InnoScope®**
- Characteristic values numerical **InnoMeter®**
- Characteristic values graphically **InnoPlotter®**
- Frequency analysis, rolling bearing **InnoAnalyzer®**
- Frequency analysis, waterfall diagram **InnoAnalyzer 3D®**
- Run-up/Coast-down Tracking Analyzers **InnoAnalyzer Speed®**
- Third octave and octave band analysis **InnoAnalyzer Octave®**
- Balancing in 1 and 2 planes **InnoBalancer®**
- Recording and monitoring **InnoLogger®**
- Measurements on wind turbines **InnoMeter 3834®**
- Vibration protection - building **InnoMeter 4150-3®**
- Vibration protection - humans **InnoMeter 4150-2®**
- Whole body vibrations **InnoMeter HVM 2631®**
- Whole body vibration on ships **InnoMeter HVM 20238®**
- Hand-arm measurements **InnoMeter HVM 5349®**

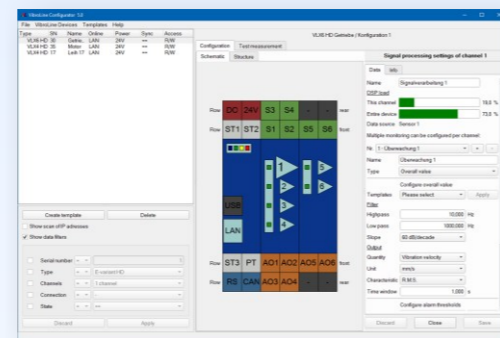
**VibroLine®**  
VLE & VLX Series



VLE VLX Outputs Interfaces Optional Analysis & parameterization



VibroLine configurator



## VibroLine® Vibration Monitoring Plus - VLE & VLX

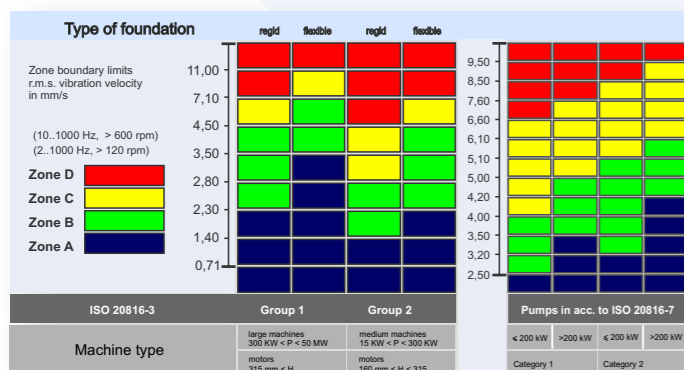
### Reliable machine protection - In the environment of Industry 4.0

VibroLine is characterized by seamless monitoring of all measuring channels. With a cycle time of 8 ms, the device is particularly suitable for monitoring dynamic processes, e.g. in CNC machines. In time-critical applications (e.g. collision warning), the system even alarms within 0.7 ms.

Model Serie HD	VLE	VLX
• Measured values via 4-20 mA	✓	✓
• Alarms via digital switching signals	✓	✓
• Measured values and alarms via fieldbuses	-	✓
• Modbus RTU/TCP, CANopen, HTTP API	-	✓
• Speed inputs	1	3
• Process trigger	1	1
• Additional options available	-	✓
• DataStream, MultiMode, DataInspect	-	✓

Typical applications

**Machine protection DIN 20816**  
Total vibration characteristics



**Rolling bearing monitoring**  
BCC, k(t) Bearing characteristics

**Unbalance and misalignment**  
Order characteristics

**Collision detection**  
Fast high pass filter

**Quality assurance**  
Automated testing

The vibration monitoring offers up to 8 measuring channels in a compact DIN rail housing. Besides IEPE accelerometers all sensors with output signal max. ±10 V AC are supported.

Integration into an existing automation environment is flexible via classic interfaces and fieldbuses. As an optional plus, VibroLine outputs the high-resolution sensor signals via streaming, e.g. for own signal analyses and AI algorithms. [Data sheet VibroLine 5.0](#)

For a standard-compliant measuring chain, tested and calibrated.

## Sensors



Whether highly sensitive special sensors or robust sensors suitable for industrial use, we supply suitable sensors for different frequency ranges, sensitivities and coupling possibilities.

## Sensor cable



With our own production of sensor cables, we can supply you with all lengths and connections - whether 1, 10 or 100 meters of cable with suitable connectors.

## Speed measurement



We offer retro-reflective sensors, contrast scanners and inductive systems in a wide variety of designs. This means that very high speeds can be reliably detected even under harsh conditions.

## Sensor mounting accessories



There are numerous options for coupling the sensors to your machines: Holding magnets, adhesive pads, threaded pins or mounting cubes. We will be happy to support you in the selection process, taking into account the various coupling properties.

## Impulse hammers



An impulse hammer is necessary to measure the applied forces of a structural excitation for the calculation of a transfer function. We supply impulse hammers in all common sizes.

## Vibration calibrators



Vibration calibrators are available with different fixed frequencies and excitation amplitudes. You can use them to test your measurement chain or calibrate sensors in-house. Alternatively, you can have an accredited calibration (DAkkS) performed by us.

## Practical and tested!

High-quality measurement technology can only show its full potential if the entire measurement chain meets the requirements for measurement accuracy. Improper coupling of the sensors, unfavorable cable lengths, incorrect positioning or environmental influences that have not been taken into account can falsify the measurement result and thus make it unusable. We will be happy to advise you and show you what is important with successfully tested solutions.

For a long term cooperation.

Measurements	Trainings	Balancing	Rental service	Calibration service	Development Service
<ul style="list-style-type: none"> <li>Vibration measurement on machinery and equipment</li> <li>Performed by ISO18436-2 certified vibration analysts</li> <li>Measurement report and proposed solutions</li> </ul>	<ul style="list-style-type: none"> <li>Seminars on vibration measurement and vibration analysis</li> <li>Trainings at your site or in-house in our training rooms</li> <li>Training courses on basic and application-specific topics</li> </ul>	<ul style="list-style-type: none"> <li>Balancing in 1 und 2 planes</li> <li>Performed by ISO18436-2 certified vibration analysts</li> <li>Balancing of fans, spindles, milling shafts, decanters, classifiers, etc.</li> </ul>	<ul style="list-style-type: none"> <li>All complete systems are also available as rental cases</li> <li>Crediting of the rental price to the purchase price</li> <li>For one-time or short-term use</li> </ul>	<ul style="list-style-type: none"> <li>Calibrations of vibration measurement chains and individual sensors</li> <li>Factory calibrations DAkkS calibrations</li> <li>Reminder service for your next calibration</li> </ul>	<ul style="list-style-type: none"> <li>Customized automation solutions for vibration measurement</li> <li>New functions of our measurement technology according to your requirements</li> <li>Development of hardware and software precisely for your purposes</li> </ul>
<b>Solution-oriented</b>	<b>Future-oriented</b>	<b>On site</b>	<b>Flexible</b>	<b>Safe</b>	<b>Individual</b>

## We support you!

From planning to the introduction and application of new vibration measurement technology, we always offer you customer-oriented and competent support with our service offerings. Here you benefit from our experience from projects that have already been successfully implemented many times. Our technical office and field service is a reliable contact for you at any time.



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