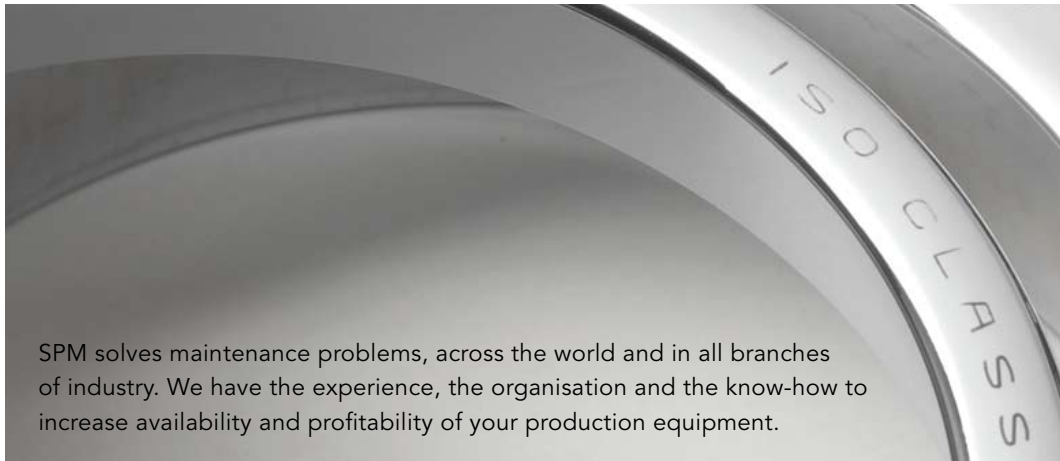
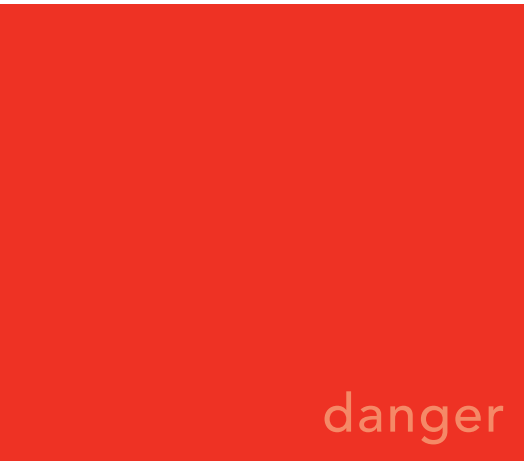


# Condition Monitoring

• • • for profitable maintenance



SPM solves maintenance problems, across the world and in all branches of industry. We have the experience, the organisation and the know-how to increase availability and profitability of your production equipment.

# ... Technical solutions



Early fault detection and data evaluation for condition based monitoring is our main business. SPM covers every aspect, from portable instruments and permanently installed warning devices to large scale, online monitoring systems controlled by our own software, Condmaster®Nova.

## Portable Instruments

**Leonova™ Infinity** is a multifunctional, hand-held data logger. Functions are selected from instructive menus using the key pad or the touch screen. The fast processor and very large memory make data logging more efficient than ever.

**LineLazer** is a shaft alignment kit for Leonova Infinity, containing crafty technical innovations to increase accuracy and ease of use.

**SPM Shims** are a large selection of high quality, stainless steel die-cut shims for fast and accurate horizontal and vertical alignment.

**Tester T30** is a diagnostic tool for machine condition monitoring, designed for reliable preventive maintenance of industrial machinery.

**Analyzer A30** is the twin of the Tester T30, with the additional unique feature of detailed assessments of the lubrication condition of rolling bearings.

**Bearing Checker** is a small, lightweight instrument for fast measurement and evaluation of bearing condition, also containing a stethoscope function.

**Vibrometer VIB-10** is a robust instrument for vibration measurement according to ISO 2372.



## Continuous monitoring

**CMM** is a condition monitoring system based on small one and two channel units providing maximum flexibility

**MG-4** is a stand-alone continuous monitoring unit

employing the two most reliable methods for automatic condition monitoring: shock pulse and vibration severity measurements. MG-4 is ideal for automatic surveillance of unmanned machines.

**CMS** is a modular online machine condition monitoring system with software control and automatic evaluation



Green – yellow – red coding on every surveillance level, from the entire plant to individual measuring points, supplies a quick overview of all monitored equipment.

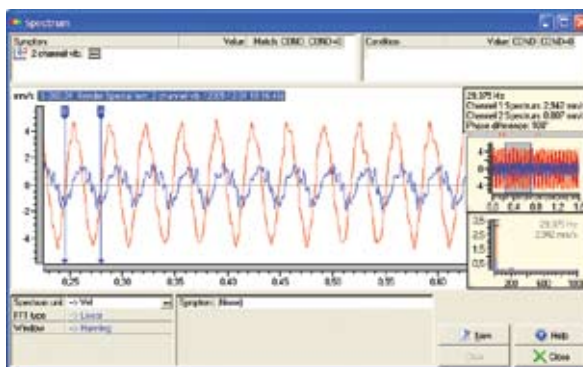
# for every situation ...



## The Condmaster®Nova Software

Condmaster®Nova accepts data from all SPM condition monitoring systems, portable instruments as well as online systems. The software is modular and can be tailored to your selected hardware in both performance and price. It supports every preventive maintenance activity, like time planning, trend graphics, statistics and reports. Interaction with other maintenance software, access via Internet and alarm via e-mail and SMS are options.

The software contains an extensive bearing catalogue and evaluation models for shock, vibration and lubrication analysis. Pre-programmed symptoms make it easy to pinpoint machine fault signatures in spectrum graphs.



Condmaster®Nova is module built and can be tailored to fit your applications and technical requirements.

## Transducers and transmitters for every need

**Shock pulse transducers** are used to monitor rolling bearings. SPM offers different versions of shock pulse transducers with several different adapters and tools for installation.

**SOLID** high performance **vibration transducers** for a large variety of applications.

**SOLID transmitters** provide a 4-20 mA output signal that can be transmitted to common process control systems.

An extensive line of transducers and installation accessories for tough environments.



**SOLID**



*High quality delivery – every time.*



## Measuring Techniques

The information needs to be readily available and not be dug out from large amounts of difficult to understand measurement data. Decide on and define clear objectives and you can easily select the measuring technique that provides fast, cost effective and most reliable results.

### **Shock Pulse Method®**

SPM's Shock Pulse Method is the most successful and accurate measuring technique for rolling bearings. Throughout the bearings' lifetime, this method gives reliable information on the mechanical state and lubrication condition of the bearing.

### **SPM Spectrum™**

A unique aid for detailed analysis of bearing faults. The time signal from SPM shock pulse transducers gives a spectrum displaying the source of the shocks when the SPM signal is compared to the rotational frequency of the bearing's parts.

### **EVAM® Vibration Analysis**

Requires considerably more input data to evaluate the measuring results but with the support of Condmaster®Nova, difficult problems can be handled where other measuring techniques cannot give a clear answer.

### **Vibration measurement ISO 2372, ISO 10816**

Very efficient to detect the most common machine faults such as imbalance, structural weakness and loose parts. The method is easy to apply and requires little input data.

### **Balancing**

One and two-plane balancing according to well-proven methods is fast and easy with Leonova.

### **Shaft Alignment**

Optional function for the Leonova, for fast and easy horizontal and vertical shaft alignment.

### **Orbit Analysis**

Simultaneous measurement with two vibration transducers gives a descriptive graph of the movements of the shaft's centreline in journal bearing machines.

## SPM Academy

Qualified training in condition based preventive maintenance aimed at enabling participants to measure, evaluate and make decisions on their own.

The target groups are decision makers, supervisors and production and maintenance personnel, all in different ways concerned with the effects of preventive maintenance. The objective is to secure and make production more efficient. Customized training upon request.



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