



## **FAG Detector III**

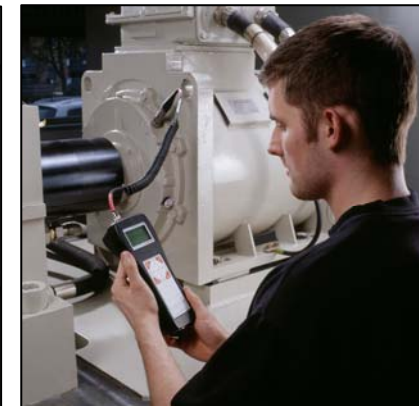
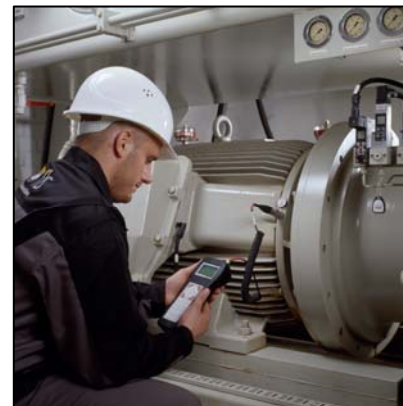
Product Presentation



## FAG Detector III – Monitoring and balancing with a single device

## FAG Detector III

- Vibration analysis
- Detector III – Functions
- Detector III – Services and scope of delivery
- Detector III – Advantages

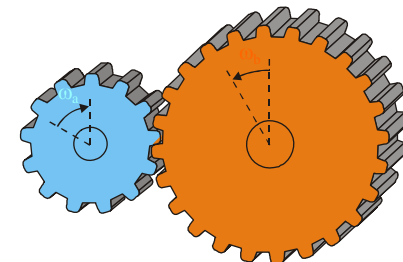
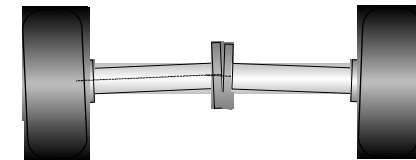
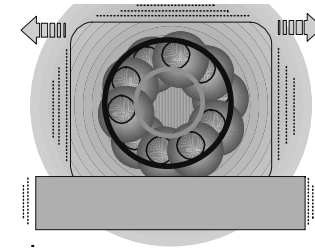


- **Areas of application**

- Electric drives
- Ventilators
- Spindles
- Pumps
- Compressors
- Gearboxes
- Machine tools
- ...



- **Particularly suitable for the detection of:**
  - Imbalance, misalignment, impacts
  - Rolling bearing damage
  - Gearbox damage (tooth sets)
  
- **Provides reliable information of the condition of machinery.**



Damage progress



Machine breakdown

Noise

Early detection by Detector III

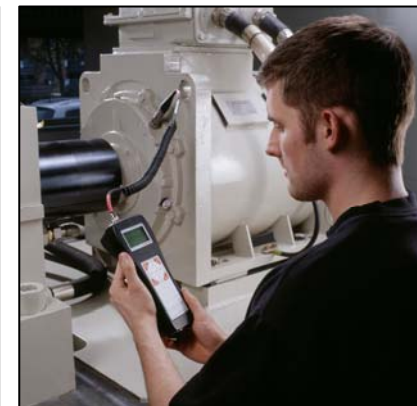
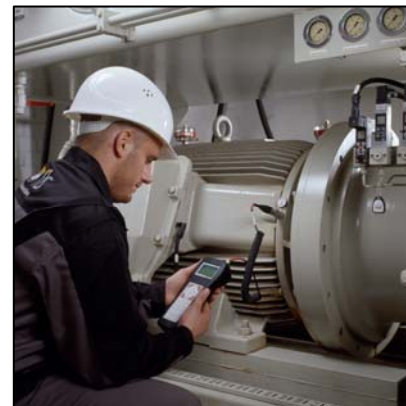
Advance warning time

Time

- **Operating benefits ...**
  - Meaningful information on the condition of machinery
  - Increased machine availability
  - Improved potential for planning of maintenance
  - Safeguarding of product quality
  - Prevention of lost production

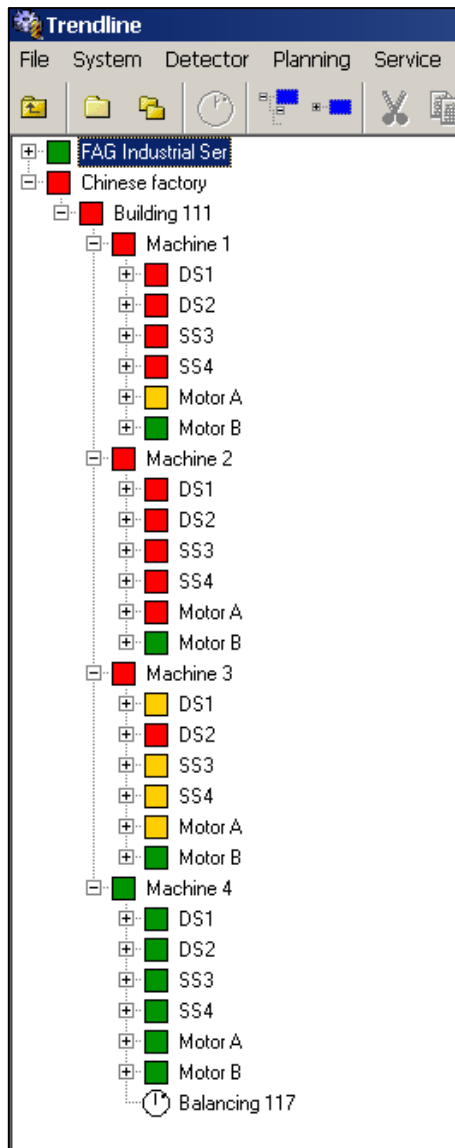
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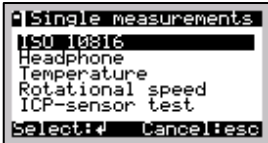


- **Vibration diagnosis**
  - Route planning
  - Integrated bearing database
  - Automatic alarm threshold adjustment
  - Automatic selection of measuring points (RFID technology)
  - Presentation of vibration data trends
  - In-depth diagnosis
  - Customer-specific measurement reports





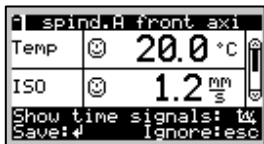
- Basic device contains preinstalled standard configurations in accordance with DIN ISO 10816
- Other measuring point configurations can be created on PC
- The measuring points within the installation can be stored in a user-friendly tree structure
- The alarm status of each measuring point is indicated by colour coding
- Measuring routes can be directly generated from the stored structure by "Drag & Drop"
- Automatic selection of measuring points by means of RFID technology



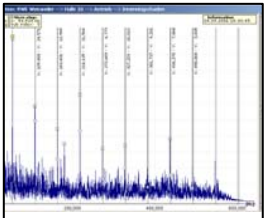
1) Call up configurations on the device



2) Simple measurement by pressing a button



3) Initial information directly on site



4) Analysis by practice-based software

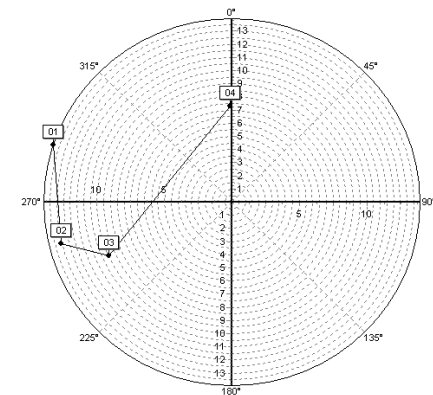


5) *If necessary...*  
detailed machinery diagnosis by F'IS

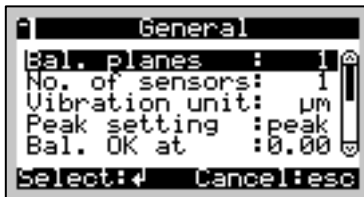
**Good/bad statements  
on machine condition  
in just 3 steps**

## ▪ **Balancing**

- Balancing in 1 and 2 planes
- Detection of resonance ranges (run-up/coast-down)
- Up to 4 sensor positions
- Documentation by means of balancing report



## Balancing – step by step



1. Speed calculation
2. Reference run → calculation of original situation



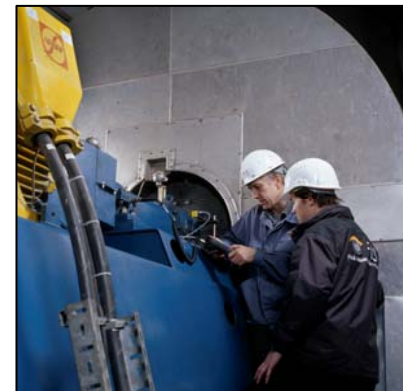
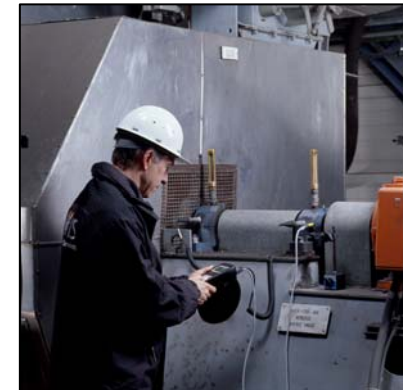
3. Addition of test weight



4. Trial run
5. Balancing (addition of corrective weights)

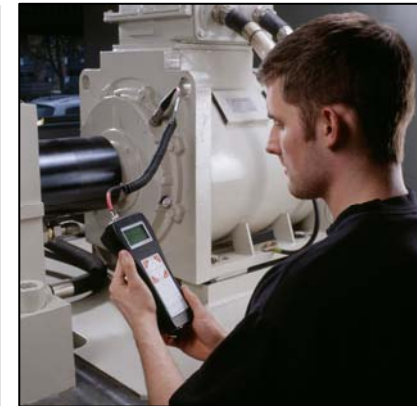
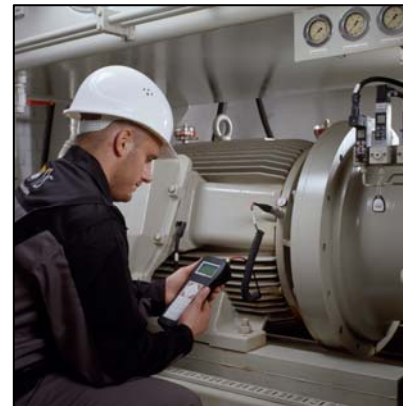


6. Trim run



## FAG Detector III

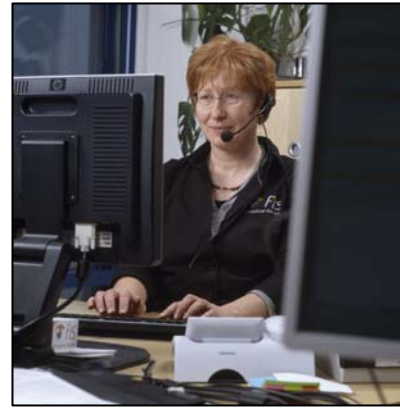
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## E-service

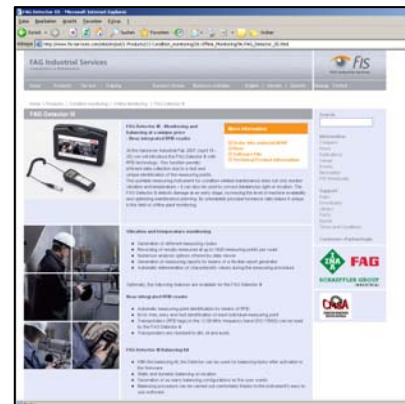
*E-mail service for analysis of measurement data (transfer to F'IS experts by automatic data export function).*



## Free support hotline



## Training



## Free software updates



## Detector III Kit\*

- Base device with rechargeable battery
- Acceleration sensor with magnetic foot
- Contact-free (infra red) temperature sensor
- Power pack
- PC data cable (serial/USB)
- User manual
- Protective bag with holder for temperature sensor
- PC software Trendline
- RFID tags
- Case

\*Available with and without RFID technology-  
Please note: The RFID functionality is not  
available worldwide.

*Complete  
diagnosis system*

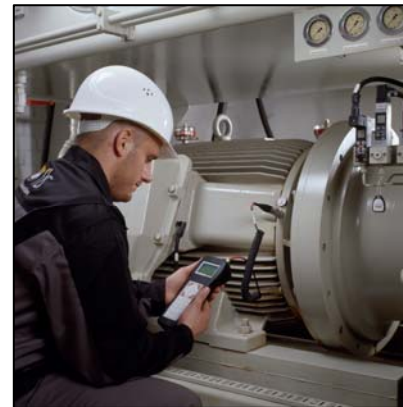


## Detector III Balancing Kit

- Acceleration sensor with magnetic foot
- Trigger sensor (optical and inductive)
- Weighing balance
- Magnetic holder for trigger sensor
- Extension for magnetic holder
- Cable for trigger sensor (length 10 m)
- Reflex mark for trigger sensor
- Dongle for activation of balancing function
- Case

## FAG Detector III

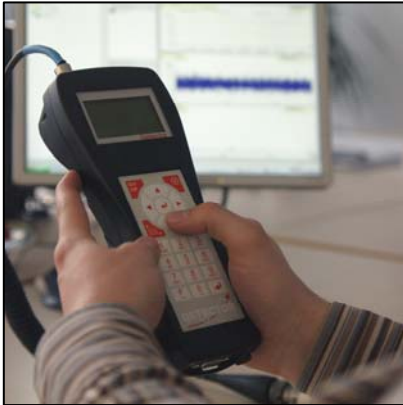
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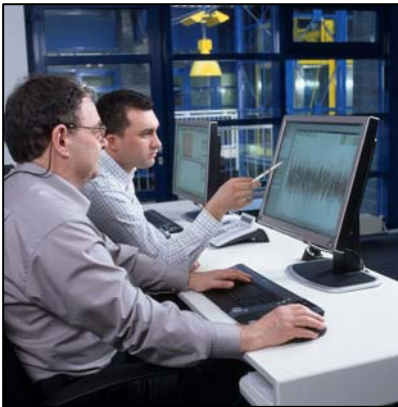
### For beginners

- Self-explanatory vibration measuring device – can be used without prior knowledge
- Reduction of unplanned downtime by simple status detection – initial information on machine status in just 3 steps
- Full support by means of free support hotline
- Knowledge of vibration monitoring can be continuously expanded



### For advanced users

- Damage diagnosis can be carried out with the aid of easy-to-use software
- Measurement reports can be configured to match individual requirements
- Root cause of damage can be narrowed down using various analytical tools and an integrated bearing database covering various manufacturers
- In-depth diagnosis by F'IS E-Service Center
- Free-of-charge software for use on any number of PCs





### For everyone

- High level of functionality with an unbeatable price/performance ratio
- Rapid and reliable capture of vibration data through automatic selection of measuring points (RFID technology)
- Additional functions: temperature and speed measurement, balancing
- Worldwide F'IS support and service
- Comprehensive range of training services

Any questions?

Just contact us ...

We'll be pleased to help!

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## **F'IS – First In Services**

