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Measuring Devices

FMF WWF

WERKZEUG- UND PROTOTYPENBAU

RPS recording concept

The component is picked up and aligned according to the customer's RPS specifications. The correct attachment to surface points is checked via an electrical circuit and displayed visually on the screen.
Drill holes are taken up with spring-loaded and guided cone or ball pins.

Construction of the devices

Cast, dimensionally stable base body made of EN-JL1040. All the measuring electronics and the pneumatic system are housed inside the device.
Alternative structure: Ergonomic component position on ITEM base frame, made of from steel or aluminium elements.

Measuring electronics

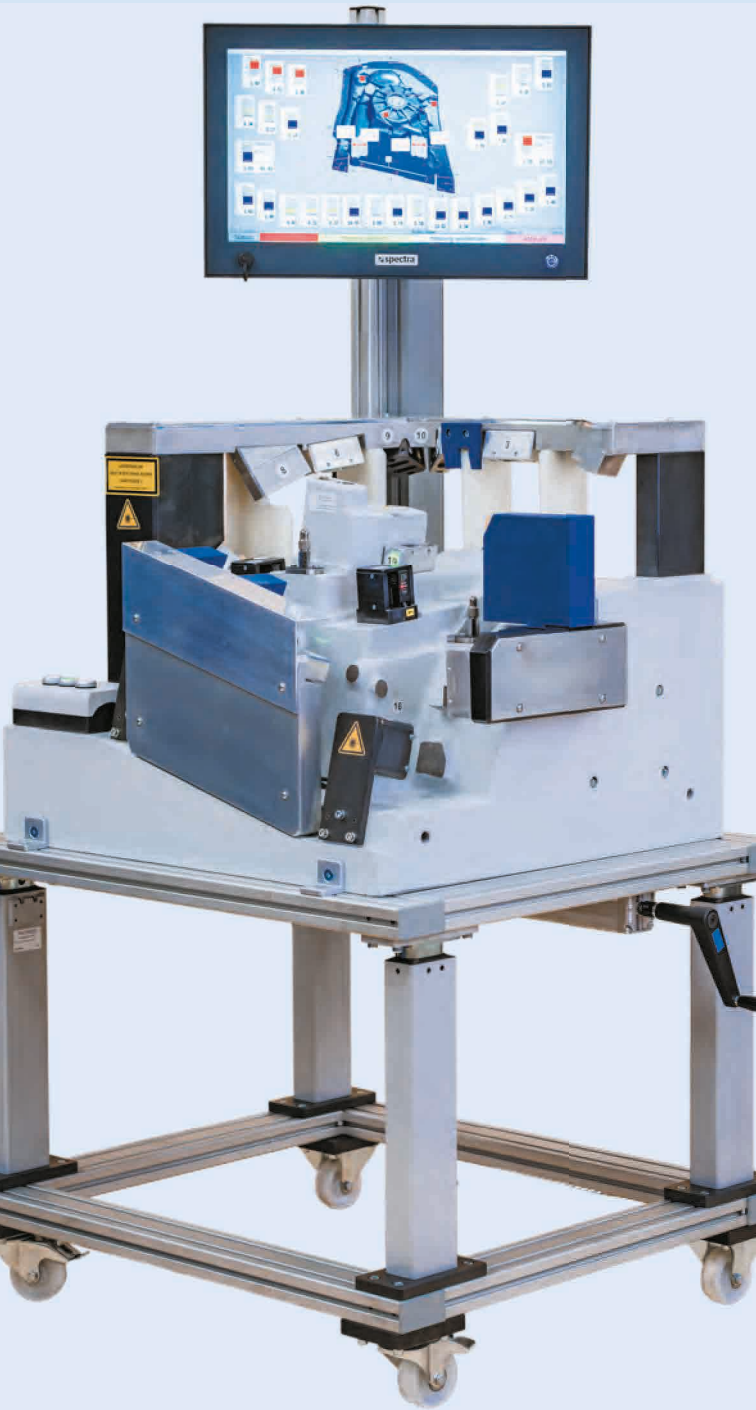
Measuring computer:

- Robust industrial PC with 21.5" TFT touch display
- Sealed metal housing (IP54), fanless passive cooling
- Standard PC connections: USB, Ethernet and RS232
- Operating system Win10 IoT Enterprise x64 (MUI)
- Alternatively, other PC systems may also be used.

Depending on customer requirements, tactile or visual (non-contact).

Tactile probes: Measuring range 10 mm, pneumatic feed.

Optical measuring sensors: Laser triangulation sensors, measuring range 10, 25, 50 or 100 mm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Calibration of the device

Calibration blocks are attached to the device to calibrate the sensors. Furthermore, it is possible to calibrate directly against the device on defined surfaces. The calibration intervals can be set individually by the customer. Alternatively, calibration can also be performed using a reference gauge.

Measuring procedure

1. Measurement: After placing the component on the device, the measurement starts automatically; deviations and component status are displayed. The measurement is taken without tension. The measurement result is displayed on the measuring computer within a very short time.

2. Rework: The workman reworks the part in the non-conforming areas.

3. Repeat measurement: If the measured values are OK, the measurement is automatically saved.

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Many options

FMF-WWF measuring devices offer a wide range of individual customisation and expansion options. DMC information can be acquired automatically or manually using a handheld scanner. The name or the identifier of the workman can also be stored.

On top of that, special functions – such as additional bore hole continuity checks – can be integrated without difficulty. Automatic part marking, for example using a marking punch, can also be added. The system remains adaptable at all times thanks to numerous interfaces provided signal inputs and outputs, for example for connection to a PLC, and the flexibility of the programmable software. Subsequent extensions and software updates can be implemented without much effort.

FMF-WWF measuring devices

Since 2013, a large number of FMF-WWF measuring devices have been delivered – proof of their reliability and practicality. The first models are still in use today and impress with their high durability, quality and robustness. At the same time, the devices offer a high degree of flexibility: both the range of functions and the software can be customised. Users also have the option of creating their own programmes or modifying existing software themselves – supported by free training courses on IBR software.