



Process-  
monitoring

Information-  
management

Quality-  
assurance

Gap measuring device

*gapMaster*

*The electronic feeler gauge*

Ideas for your success

# Fast and Easy Measurement



gapMaster

We developed the gapMaster for gaps, in which laser-optical or other measuring methods fail due to poor accessibility, reflective surfaces or choice of material.

Its thin measuring blade can enter deep into gaps, which are out of visual range. Helpful will this be for example in the measurement on rotary machines and pumps, as well as in the determination of internal contours.

The tactile sensor is independent of material and surface and has low measuring forces.

The handy mobile device uses a touchscreen for display and operation. For the fast and reliable recording of measured values, test plans with semi-automatic processing can be configured.

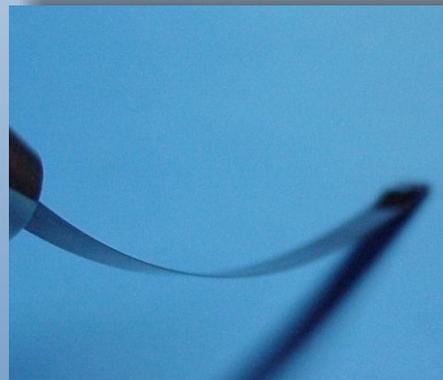
The data are saved locally and can be automatically transferred via USB or WiFi.

## Flexible Sensor Variations



Different tips with either line or point contact will always ensure correct measurement. To suit every application, our sensors can be angled in different directions.

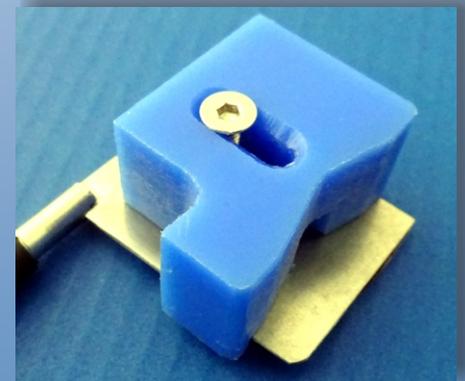
Straight tubes shafts, flexible blades or pliable goosenecks will meet every requirement.



The flexible sensor blade can be as long as 500mm. It will enter deep gaps even behind curves out of the visual range.

The lower measuring limit with particular sensors is 0.2 mm.

### *Different types of sensors for your special requirements*



The sensor handling can be enhanced with additional extensions like individual stops or guides.

This way the operator influence can be almost completely eliminated.

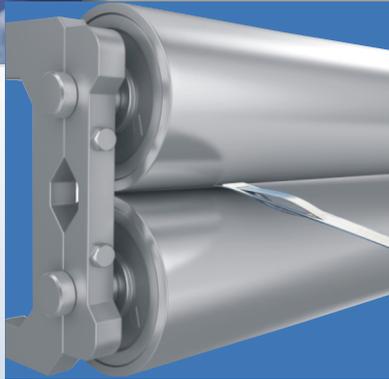
# 1001 Applications

## Fields of application and examples



### Aircraft construction

- ✓ Comprehensive documentation
- ✓ Handy mobile device for every application



### Roller nips

- ✓ Independent of material and Surface
- ✓ Low measuring forces, ideal for sensitive surfaces



### Wind generators

- ✓ Detection up to 500 mm depth
- ✓ Accurate sheet-package measurement for full generator-power



### Turbines and fans

- ✓ Minimum value recording with axial and radial measurement
- ✓ Feature groups for a high number of measuring points



### Automotive Industry

- ✓ Useful for difficult to access interior and exterior
- ✓ Optimised for mobile use without surface influence



### Mechanical engineering

- ✓ Good accessibility for all mounting gaps
- ✓ Recording of complete gap contours, even in spots difficult to measure



### Wooden components

- ✓ Measurement recordings without material influence
- ✓ Contour measurement of laser cuts



### Sheet metal forming

- ✓ Exchange of gauges and spies with a single sensor
- ✓ Quantitative statements for manufacturing

# Measurement process and readings



Job View

Depending on the measuring task and process, various detection strategies are used. We aim to make your measured value recording as reliable, as accurate and as fast as possible.

For default measurements the sensor is inserted into the gap and the current measured value at the desired position is transferred as a single value into the test protocol. The transfer can take place on the sensor, the cable box or the touchscreen as required.

To accelerate the measurement process, the software handle automatically switches to the next feature after the transfer.

Different software variants and measurement curve evaluations are used according to customer requirements. Every sensor can be adapted to your specific measuring tasks.

## Variable versions

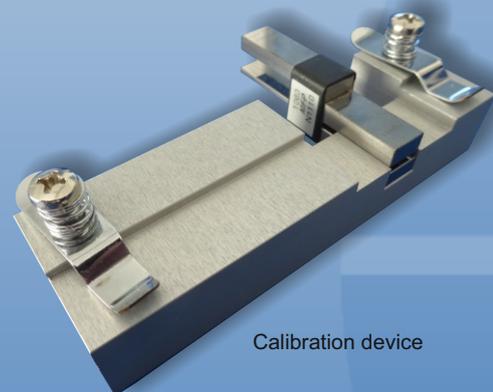
The sensors of the gapMaster are interchangeable via plug connections. Depending on your requirements, you can use the sensor with its grip, install it in devices, clamp it in the gap or use other hardware variants.

Whether mobil or stationary, whether Android® or Windows®, the gapMaster offers the right equipment for every application.

Our specialists will be pleased to advise you and show you the possibilities for your special measurement task.



Measurement electronics



Calibration device

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