





Low Measuring forces for all Surfaces

Ideas for your success

Gap measurement at rolls and nozzles



Sword sensor

It can be used in a wide range of industries, from wire, sheet and film production to paper, printing and packaging industries.

Electronic gauge for roller nips

Quick and simple roller gaps and nozzle gaps can be measured using the electronic gauge gapMaster[®] as replacement for feeler gauges. Various measuring probes enable measurement of gap widths between 0.2 mm and 10 mm or more.



Material and surface independence

In contrast to optical and capacitive devices the gapMaster[®] is independent of material and surface. Thus gaps between roller pairs of different kinds can be measured.

Moving machine

Material independence

The tactile sensor has very low measuring forces and is introduced into the gap. A holding function indicates the minimum value when the sensor is pushed through. As a result, gaps can be measured even when the rollers are moving.

Stops and sensor guides can be used to prevent twisting and tilting.

The gapMaster[®] is characterized in particular by the fact that contours can be detected in the cleft interior. Depending on the requirements, point or line detection is realized.

The measurement is possible with long sensors up to a gap depth of more than 500 mm. For crooked and difficult-to-access areas, cranked and angled sensors are used.



Gap measurement for painting, gas and other nozzles



Push-on sensor for tool setting

Electronics

- Test frequency to100 Hz
- Up to 4 channels
- Display depending on model 7-10" LCD touch
- USB and WIFI interface

Sensors

- Measuring limits 0.2 mm to over 10 mm
- Measuring depths 2 mm to over 500 mm
- Accuracy depend on sensor up to $\pm \ 0.03 \ \text{mm}$
- Resolution up to 0.003 mm depending on sensor
- Touch line or point
- Measuring force depending on sensor 0.5 2 N
- Material independence
- Surface independence

Software

- Operating system depending on device model Android[®] and Windows[®]
- · Measuring software with online/order measurement
- Multi language support
- Static and dynamic measurement
- Inspection plan and order management
- Calibration
- Data format XML, CSV and PDF

Precision at every Measurement

Other Applications

- Gap and distance measurement during machine and plant assembling
- Gap measurement and wear detection in rotary machines such as turbines, mixers, pumps and fans
- Gap measurement in metal sheet and plastic production
- Air gap measurement on motors and generators
- Measurement of sieve and matrix columns
- Gap measurement in aircraft and car mounting
- ✓ Gaps between workpiece and gauge

Rollers

Foil rolling Printing rollers Wire rolls Rolling pairings

Nozzles

Blow heads for foils and fibers Painting and gas nozzles



Gap measurement in the plastic film industry

MFP - Competence in Gap

Patents

MFP owns patents, approvals and property rights for various products and processes.

Developments

The invention of the gapMaster[®] gap measuring device has led to many developments in this field. With over 30 years of experience in measurement technology, MFP supports its customers in gap measurement with optimized sensors, tuned software for Android[®] and Windows[®] as well as the latest electronics.

Team and Partners

We and our national and international partners are happy to pass on to you our extensive know-how in gap measurement technology, which we have gathered in almost all industries since the development of gapMaster[®].

Have we aroused your interest?

Ask for more information. Our team is at your disposal for further information.

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