

## CHALLENGES

When it comes to machining, precision is essential.

Indeed, manufacturers of metal parts, whether they operate in the aerospace, defense or automotive sectors, must comply with complex drawings imposing strict dimensional tolerances.

At the end of the manufacturing process, it is therefore imperative to carry out a rigorous metrological inspection of the part produced to check compliance with dimensional specifications. This check determines whether the part complies with the required tolerances, or whether adjustments are necessary, or even whether the part should be scrapped.

Our METRIX solutions enable you to check the dimensions and shape of your part with Metrix ONE, its internal diameters with Metrix ID and its external diameters with Metrix OD.

## SOLUTION

**METRIX OD** is the perfect solution for checking outside diameters on machined parts.

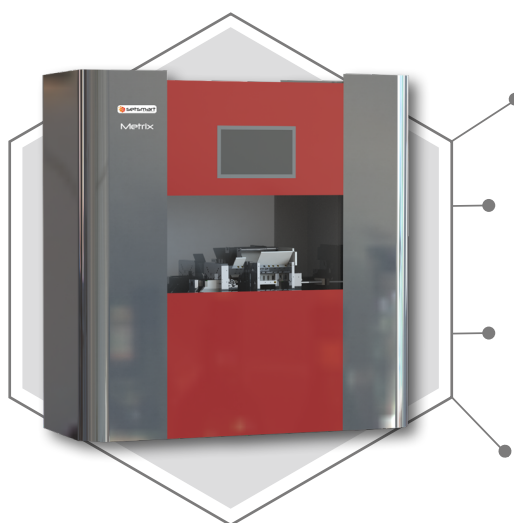
- It enables diameter measurements with micrometer-level accuracy, with, for example, a measurement uncertainty of  $\pm 5\mu\text{m}$  for a moving part and  $\pm 3\mu\text{m}$  for a static part. These specifications are examples, and can be adapted to specific measurement requirements and conditions.
- Various measurement strategies and technologies can be combined to suit your requirements in terms of accuracy, measurement point density or part robustness.

## BENEFITS

### Guaranteed precise dimensions of your parts

- High precision down to the micrometer, or better, to meet a wide range of dimensional requirements.
- Ultra-fast solutions; your control is done in seconds.
- A range of products to suit your needs and budget.
- Depending on the Metrix solution chosen, measurement can be carried out manually, with or without acquisition software, or fully automated.

## METRIX OD



### ACCURATE AND PRECISE DIAMETER MEASUREMENTS

down to micrometers or better, and low R&R gage

### FAST AND EASY CONTROL

Quick testing (within seconds), independent of the operator's skills

### ULTRA HIGH PRECISION

with contact (tactile) transducers, also allowing for more measurement points over a smaller area.

### PRESERVATION OF THE CONTROLLED PART'S INTEGRITY

with contactless pneumatic sensors, that can also be used for online continuous control.

### UNATTENDED OPERATION

with automation, allowing operators to focus on value-added work.