DEFENSE
CONTROL OF PROJECTILES

CHALLENGES

In the defense sector, precision is essential. Defense systems are complex, and every part plays a crucial role.

For example, the manufacture of projectiles such as shells requires great precision in the assembly of complex and sensitive parts.
Dimensional control of these parts is therefore essential, not only during assembly, but also throughout their lifecycle, to ensure their safe use. Perfectly fitted components ensure that the assembly operates correctly at the most critical moment.

SOLUTION

METRIX OD is a solution for checking outer diameters, adapted to projectile inspection.

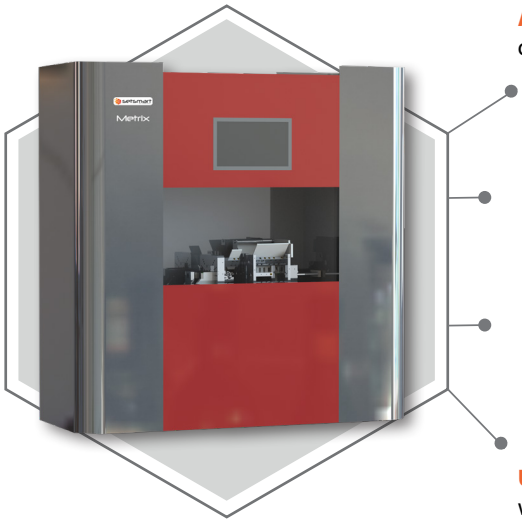
- It enables diameter measurements with micrometer-level accuracy, with, for example, a measurement uncertainty of +/- 5µm for a moving part and +/- 3µm for a static part. These specifications are examples, and can be adapted to specific measurement requirements and conditions.
- Various measurement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

BENEFITS

Ensuring projectile quality and safety

- The controlled dimensions ensure that the firing system functions correctly and is therefore safe to use.
- The **automated** measuring station is independent of the user.
- Software ensures traceability of controlled projectiles.

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 continous control.

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