

CHALLENGES

In the large scale production of steering shafts it is critical to control dimensions and to respect all geometrical product specifications. This :

- Avoids time **loss, uncertainty and high costs** linked with classical and manual control
- **Improves the traceability of control data** and the continuity of product quality

SOLUTION

METRIX OD, is a solution for the control of outer diameters. It can be adapted to steering shaft control, and equipped with:

- Automated loading & unloading system (6 axis robot)
- 23 tactile transducers to check 16 dimensions (diameters, lengths, circumferences) with a +/- 6 µm measurement bias and an R&R gage < 6%
- An automated and programmable calibration
- A dynamic correction system of the machining parameters

The solution can control two kinds of parts with no extra settings needed.

BENEFITS

Production time and cost savings

- Control x10 faster, with a cycle time below 12 secs
- Reduction of the ratio of non-compliant parts
- Solution profitable after 6 months

Digitalization of production (Smart industry)

- 100% traceability of control data
- Fast detection of quality gaps and dynamic correction of production

METRIX OD

