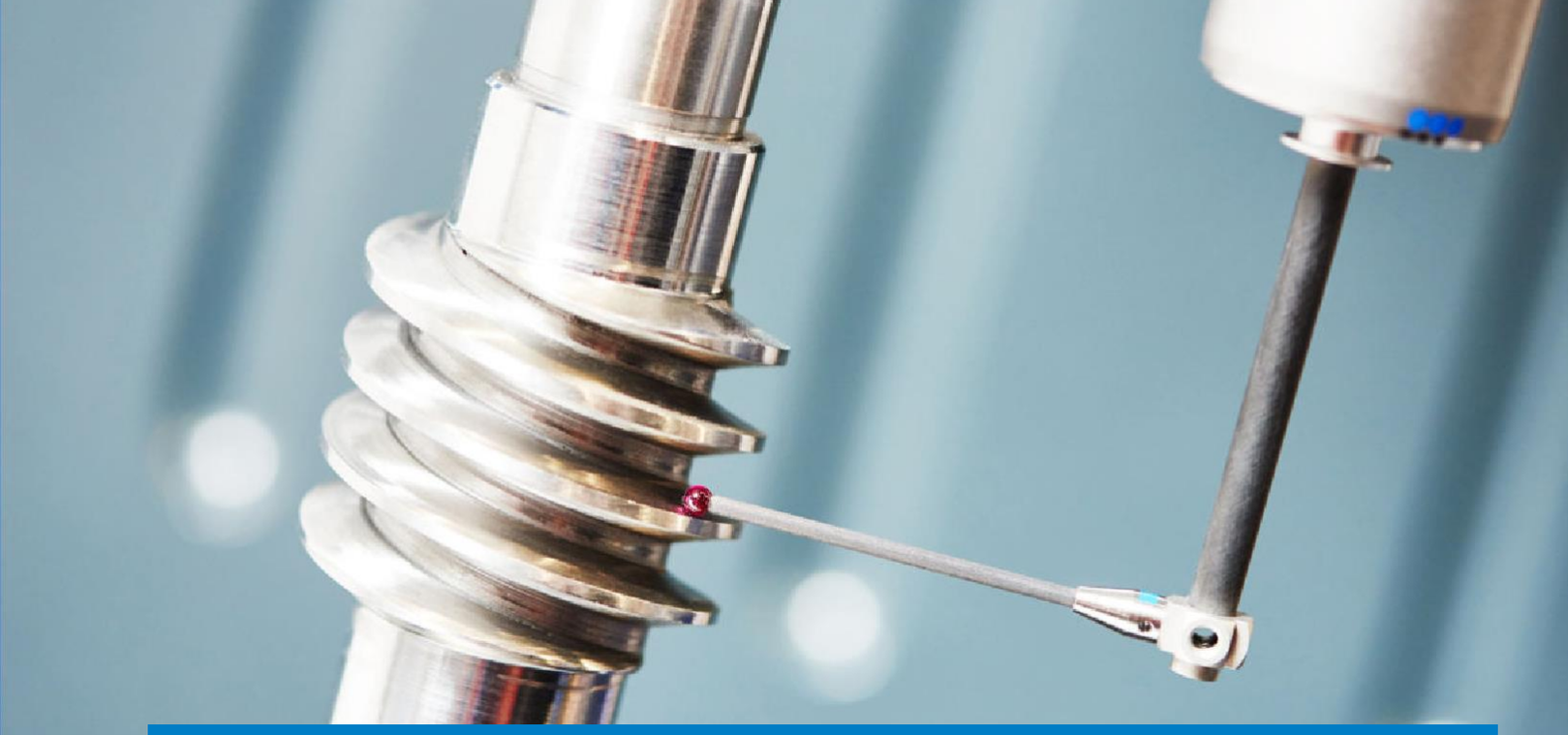

INDUSTRIAL QUALITY CONTROL

This competence includes surface topographic and geometric measurements related to the quality control of industrial and custom parts and the evaluation of manufacturing accuracy.

COMPETENCIES

- Two- and three-dimensional surface roughness measurement, analysis of surface topography
- Examination of the form accuracy of parts
- Three-dimensional coordinate measurement
- Measurements with profile projector and conventional devices
- Examinations with stereomicroscope

SERVICES

- Two- and three-dimensional surface roughness measurement with mobile and fixed roughness measuring devices, inductive pin, laser or confocal chromatic measuring head, detailed analysis of surface topography with AltiMap software
- Measurement and analysis of shape and position errors
- 3D geometric measurements (with CNC coordinate measuring machine)
- Perform geometric measurements with conventional measuring tools and profile projector
- Taking stereomicroscopic images, analysing the images, perform measurements

TOOLS

- AltiSurf 520 type 3D measuring device for surface topography, AltiMap evaluating software
- Talyrond 365 shape and position tester with Ultra evaluation software
- Mitutoyo SJ-310 portable roughness tester
- Zeiss Stereo Discovery V.8 stereomicroscope with AxioVision evaluation software
- Mitutoyo PJ-A3000 profile projector, digital measuring instruments
- Dea Global Classic 050505 3D coordinate measuring machine (Institute of Machine and Product Design)

REFERENCES

- VT Plastic Manufacturing Ltd.: Surface roughness measurement on plastic prism parts
- BorsodChem cPlc.: Surface roughness measurement of UK-2870 hydrochloric acid compressor components
- Robert Bosch Energy and Body Systems Ltd.: Measuring the depth of scratches on aluminium cover parts
- Bay Zoltán Applied Research Nonprofit Ltd.: Optical profilometric tests on anodized aluminium alloy samples

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