



## Co-operation offer



Laboratory of Coordinate Metrology  
Faculty of Mechanical Engineering  
Cracow University of Technology

## Laboratory of Coordinate Metrology

**Laboratory of Coordinate Metrology** is one of the most advanced research centers in the Polish technical universities.

The calibration of coordinate measuring machines (CMMs) and the calibration of artefacts are the main activities of LCM's pursued for nearly 30 years. LCM performed several hundred works and calibrations on behalf of companies and research entities, including the Polish Central Office of Measures and companies Hexagon, Zeiss, Volkswagen, Fiat, Valeo, Comau, NSK Iskra Kielce, ELMOT Swidnica, Alsthom Elblag, PMP Councils and many others. Several applications were implemented in the measurement industry. The laboratory is strongly oriented to cooperation with industry and implementation of innovative solutions for quality control, training, and implementation of technical cooperation in science and innovation. LCM participates and is invited to major research projects carried out by the major laboratories and measurement authorities in Europe.

**LCM is the accredited calibration laboratory (No. AP 132) for:**

- calibration of coordinate measuring systems,
- calibration of artefacts.

The laboratory operates in accordance with the implemented management system according to **PN-EN ISO / IEC 17025:2005**.

### Research topics / Fields of cooperation:

- calibration techniques for calibration of measuring systems and material standards,
- accuracy assessment methods for coordinate measurements,
- modeling of measuring systems (construction of virtual systems),
- contact and contactless acquisition of points,
- multisensor measuring systems,
- large volume measuring systems,
- portable measuring systems (laser trackers, articulated arm CMMs),
- interferometric measurements of geometrical errors (using classical interferometer and Laser-Tracer system),
- construction and implementation of automated systems for quality control,
- systems of measurement accuracy prediction,
- 3d scanning of objects (using laser triangulation and fringe optics),
- adaptation of industrial robots for quality control systems.

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## Scientist + Entrepreneur = Success

If you are planning to develop your company on the basis of the latest scientific findings and you would like to collaborate with experienced scientific experts check the offer of Cracow University of Technology for the industry [www.s2b.transfer.edu.pl](http://www.s2b.transfer.edu.pl).

### Our online database includes:

- technology offers, patents and industrial designs
- listing of University commercial services including laboratory expertise and research
- database of experts with experience in the implementation of services for the industry

As an internal unit of Cracow University of Technology, our team of consultants is specialized in the commercialization processes. On the other hand long term active cooperation with entrepreneurs allows us to identify precisely industry needs and expectations. Experiences gained through the last two decades on the edge of industry and science collaboration, let TTC formulate optimal models of commercialization and suitable methods of development projects support.



Contact:  
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