

Length

Published by: Adam Żeberkiewicz

Time and Length Department

Tasks:

- Maintenance of the national measurement standards for length, plane angle, refractive index and optical rotation;
- Ensuring traceability in the field of length, plane angle, refractometry and polarimetry;
- Performing the research in the field of light frequency of stabilised lasers, measurements of length, plane angle, surface texture parameters, refractive index and optical rotation;
- Performing tests and checks for the needs of legal metrological control, conformity assessment and type approval;
- Organizing and taking part in national and international comparisons.

Services:

1. Calibration of:

- stabilised lasers,
- gauge blocks,
- laser distance meters,
- optical flats,
- ring and plug gauges (internal and external cylinders),
- 1-D measuring machines,
- mechanical comparators for gauge blocks,
- optical polygons, angle gauges, rotary tables, goniometers,
- photoelectric autocollimators, electronic levels,
- visual and photoelectric refractometers,

- solid and liquid refractive index standards,
- photoelectric polarimeters,
- quartz control plates (polarimetric standards),
- straightness and roundness standards,
- tapes (rigid, semi rigid),
- precision line scales and stage micrometres,
- hardness measuring instruments, including reference blocks according to the hardness scales: Brinell, Rockwell and Vickers,
- diamond indenters.

2. Expertise of instruments and stands for:

- taximeters verification,
- tachographs checks,
- verification of devices for measuring the speed of vehicles in traffic control.

3. Manufacturing of the certified reference materials

- glycerol,
- sucrose.

Search and Development



Contact to the Department: phone: +48 22 581 95 43, length@gum.gov.pl

Contact to Laboratories:

- Length – phone: +48 22 581 93 32
- Precise Geometric Measurement – phone: +48 22 581 95 07
- Time and Frequency – phone: +48 22 581 91 56
- Hardness - phone: +48 581 92 06