

ACCREDITED CALIBRATION LABORATORY (AKL) No.2318

The PRIMA BILAVCIK calibration laboratory, accredited by the Czech Institute for Accreditation, o.p.s. according to the CSN EN ISO/IEC 17025:2018 standard, is equipped with the most modern measuring equipment for calibration of measuring instruments in the fields of length, angle, temperature, pressure, humidity, moment of force, mass, electrical quantities and force. All gauges used in calibrations are listed in the primary standards of national laboratories.

Calibrations are carried out in our laboratories in **Uhersky Brod**, **Mlada Boleslav and NPP Mochovce in Slovakia**, or in a mobile calibration laboratory **"calibration ambulance"**, which will come to your company.

We can also arrange **gauges pick-up** at your company and **bring them back** after the calibration. You will not have to worry about transport costs.

In the calibration laboratories we use **Palstat CAQ software for calibration and recording of measuring instruments**, which helps to automate a large part of calibration activities between us and the customer. This saves time and administrative costs, but also reduces errors.

Length / Angle / Torque

What devices do we calibrate?

- calipers, micrometric gauges, cavity gauges, internal and external smooth gauges, deflection gauges, end gauges
- protractors
- torque wrenches (including angle of rotation measurement)
- screwdrivers, tighteners
- · special gauges
- · Jigs
- machines and laboratory equipment

How are we equipped?

- precision length gauges Mahr and Trimos
- · Steinmeyer deflection gauge checker
- · Werth and Coord coordinate measuring machines
- Stahlwille calibration equipment
- accurate standards for calibration of coordinate and other machines
- · Renishaw laser interferometer

Length	Angle	Moment of force			
0 to 20 m	0 to 360°	0,2 to 1000 Nm			
In the laboratory and at the customer's site					

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Temperature / Pressure / Humidity

What devices do we calibrate?

- digital and analogue thermometers of various types, thermoelectric cel
- pyrometers, temperature data loggers and other equipment
- hygrometers
- strain gauges, digital pressure gauges
- measuring chains for pressure measurement
- pressure sensors and transmitters

Thermometers	Hygrometers	Pressure gauges			
-100 to 1 600°C	10 to 95%	0,01 to 2 000 Pa			
In the laboratory and at the customer's site					



Mass / Force What devices do we calibrate? · laboratory, analytical, medical, bench, floor, counting, mobile, hanging scales · weights (F1, F2, M1, M2, M3)

· analogue and digital force gauges

Scales	Weights	Force gauges			
1 mg to 1000 kg	1 mg to 20kg	0 N to 2500 N			
In the laboratory and at the customer's site					



Electrical quantities

What devices do we calibrate?

 digital and analogue multimeters, oscilloscopes, electrical calibrators, RLC meters, clamp meters, resistance decads, inspection instruments, mechanical and digital stopwatches

Vol	tage	Curi	rent	Pov	wer	
AC	DC	AC	DC	AC	DC	
0 to 1000 \	/ 0 to 1050	V 0 to 30	A 0 to 3	0 A 30	kW 3	0 kV

In the laboratory and at the customer's site









The accredited testing laboratory complies with the requirements of CSN EN ISO/IEC 17025 17025:2018. We provide our customers with professional service in the form of custom measurement carried out by selected measuring technologies (CT / CMM / contour / roughness / 3D scanning), consultation of measuring tasks, the determination of measurement strategy or reverse engineering services.

Computed tomography / NDT analysis / 3D scan

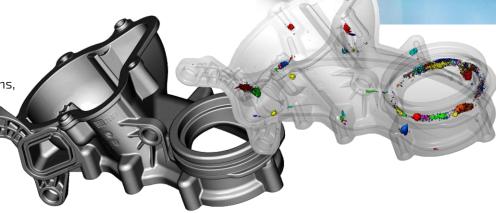
- porosity analysis, crack detection, seal inspection, wall thickness analysis
- the comparison of scan to CAD data
- complete dimensional inspection
- solution to urgent defects in the production programme
- cross-disciplinary use
- non-destructive method

Company equipment

Werth TomoScope HV500 computed tomograph

What data can be collected?

- 2D X-ray images
- 3D volumetric graphics
- 3D scans
- 2D and 3D outputs, animations, videos

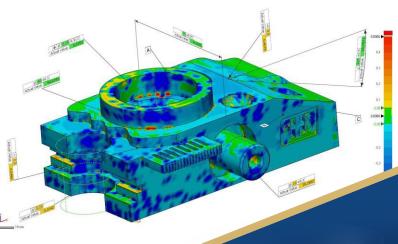


Coordinate measurement

- optical and probe measurement
- parts up to 1200 mm
- modelling
- · reverse engineering

Company equipment

- 3D measuring machines Werth and Coord3
- IP camera with zoom optics
- scanning probe head
- 3D microprobe
- rotary axis
- wide range of other accessories for coordinate machines









- optical and probe measurement
- the measurement of large parts
- machine alignment check
- surveying of buildings, production halls and other premises
- digitization of cultural heritage
- flexible solution for use directly at the customer's site

What is our equipment?

- portable FARO ScanArm arm with a range of up to 4 m (can be extented)
- FARO Laser Tracker system with a range of up to 25 m
- wide range of accessories
- SW Polyworks



Roughness, Contour and Roundness Measurements

- high-precision measurement of roundness and shape deviations
- parts inspection
- defect analysis
- control measurements

How are we equipped?

- ACCRETECH Rondcom NEX
- ACCRETECH Surfcom NEX
- ACCRETECH Roughness machines







WHAT ELSE CAN WE OFFER YOU?

Ask, all questions are welcome!

Mobile laboratory and calibration at the customer's site

- we will come to your place and perform calibrations or measurements in all fields
- · great saving of time and money
- you no longer need to transport your gauges
- no need to have spare gauges for the calibration period
- you can take advantage of the presence of our technicians for advice, calibration of larger instruments or training
- the fastest way to calibrate
- · minimal impact on the production process

Turnkey metrology

- services of an external metrologist
- gauges database management
- implementation of the metrology system in your company
- introduction of Palstat metrology software for gauges management
- audit preparation

Consultancy

Don't know how to set up metrology in your company?

Do you need to know how to set a calibration period for your measuring instruments? Is your product defective?

Do you need to consult your measuring procedure?

Are you looking for a calibration company for your laboratory's standard equipment? Not sure how to understand a drawing or standard?

Never mind, we are happy to advise you!











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• Instruments for measurement and metrology • Computed Tomography (CT) • Training Centre PRIMA AKADEMIE •Accredited Calibration Laboratory• Authorized Metrology Centre • Accredited Testing Laboratory