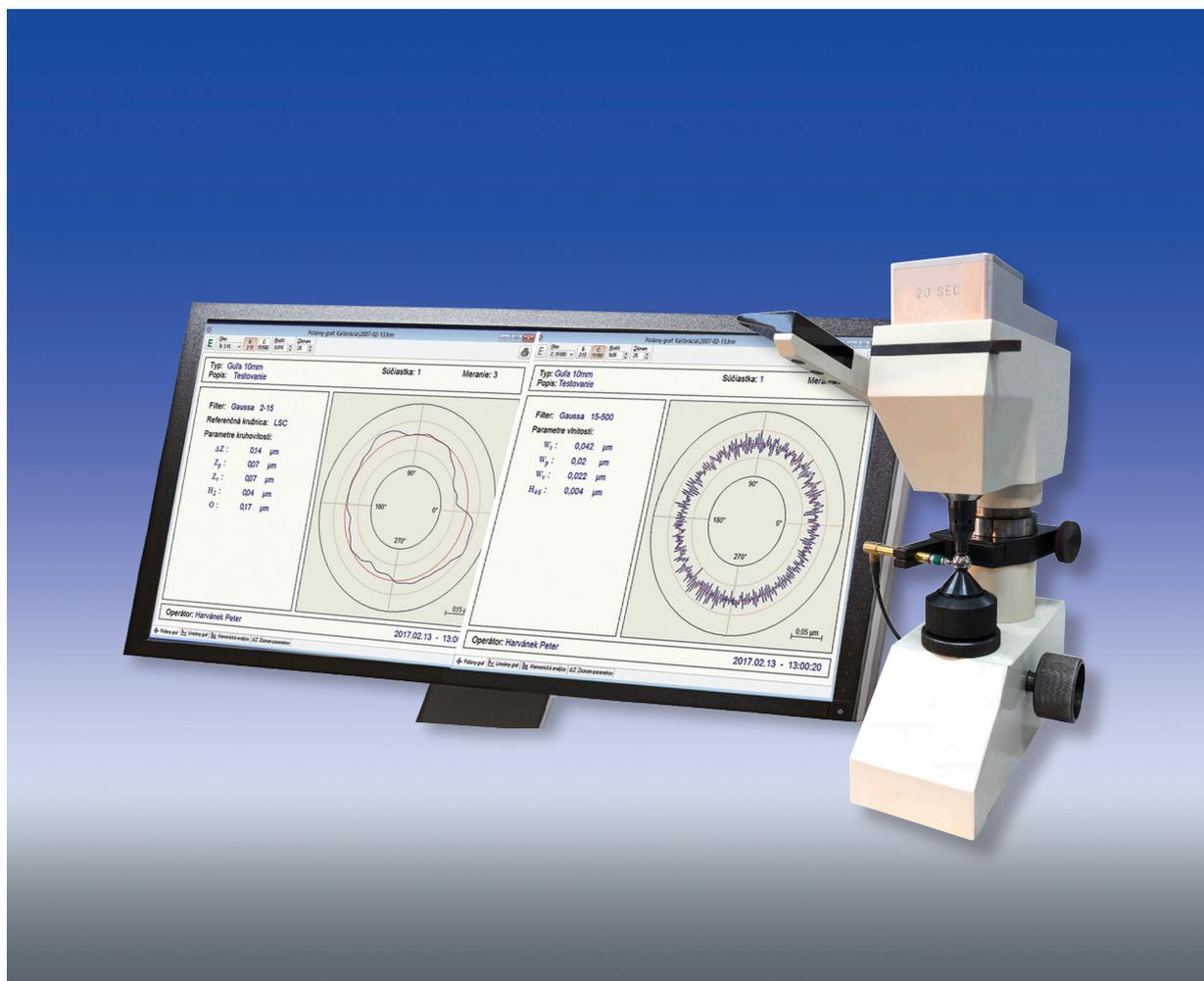




**AQ STYL**  
**SLOVAKIA**

DEVICE TO MEASURE SHAPE DEVIATIONS OF THE BEARING BALLS  
**CIRCULARITY, SINUOSITY, ROUGHNESS**  
**ROTEST**

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# DEVICE TO MEASURE SHAPE DEVIATIONS OF THE BEARING BALLS CIRCULARITY, SINUOSITY, ROUGHNESS

## ROTEST

It serves for measuring and evaluating the shape deviations of the bearing balls in the range of diameter 2 - 40 mm. It is designed for quick verification of variations in circularity, sinuosity and roughness in a selected cut of the bearing ball. The device is placed on a sufficiently rigid desk.

**MAIN PARTS:**

- mechanical part – stand, precise spindle, set of 5 conical bearings, set of carriers of rotary movement,
- electrical part – electronical assessment unit with a processor.  
Noise 8pm (picometres)  
Program to evaluate deviations in circularity, sinuosity and roughness Roform.  
Computer, inductive sensor, printer.

### MAIN TECHNICAL DATA:

Diameter range of the measuring balls	2–40 mm
Ø scopes of balls measuring in the individual bearings	2–3, 3–5, 5–9, 9–18, 18–40 mm
Spindle's rotation frequency	10 sec/spindle
Radial will of the spindle	max. 0,05 µm
Mechanical parts' dimensions (lx w x h)	160 × 280 × 390 mm
Mechanical parts' weight	15 kg
Scanner type	induction
Scanner's measuring power	max. 0,5 N
Scanner's measuring scope	min. ± 500 µm
Sensitivity scope on the electronic evaluating unit	6 automatically optional ranges ± 0,4, ± 1, ± 2, ± 4, ± 20, ± 40 µm, ± 2% from the set scope
Economics transfer stability	Shift for 10 hours ± 3% from the min. scope, long-term for 6 months ± 5% from the min. scope.
Working temperature	15 – 35 °C
Total error of the measurement	max. ± 5 % from the scope
Supply voltage	220 V ± 10% / 50 Hz
Input in total	max. 200 VA
Minimal working space	800 × 450 mm

