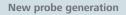


# NEW

## HOMMEL-ETAMIC F435/F455 Enhanced productivity and functionality

- Precise and reliable determination of all form and positional tolerances
- Optional roughness and waviness measurement with new probe generation
- Automatic centering and leveling for fast workpiece alignment and effective measurement of series parts
- Innovative, user friendly evaluation software TURBO FORM







Compact desktop version



**Ergonomic measuring station** 

## Scope of delivery HOMMEL-ETAMIC F435/F455

F435 desktop	Art. 1005 9999
F435 with instrument table	Art. 1006 0126
F455 desktop	Art. 1005 9654
F455 with instrument table	Art. 1006 0127

- High precision, air mounted rotational axis, automatic centering and leveling, max. workpiece weight 400 N
- Measurement axis in Z direction with rotary encoder, travel 350/550 mm
- Measurement axis in R direction with high resolution glass scale, travel 220 mm
- New probe generation FT1.1 with  $\pm 1000 \ \mu m$ measuring range incl. stylus (fast probe changing thanks to magnetic coupling)
- Instrument table GTF3 with inlaid stone plate
- Windows 7 based measuring isntrument, 22" TFT color flat screen, mouse, network card, CD-writer
- Evaluation software TURBO FORM for Windows

### Optional:

- Roughness and waviness measurement (in connection with GTF3 and air damping)
- Automatic tilt and rotation module MDS for fully automatic axial and radial measurements, tilt range 90°, rotation range: 270°
- Instrument table GTF3 with air damping
- High resolution glass scale in Z direction
- Twist measurement according to MBN 31007-07
- Several precision-chucks
- Magnification standard with test certificate
- Probe arm set to cover standard measuring tasks

### Technical data HOMMEL-ETAMIC F435/F455

Workpiece volume	
Distance C/Z axis Max. test diameter Max. measuring height	350 mm 430 mm 350/550 mm
Rotation axis (C axis)	

Table diameter Workpiece alignment Roundness error µm+µm/mm measuring height Roundness error µm+µm/mm measuring height* Axial runout error µm+µm/mm radius Axial runout error µm+µm/mm radius* Centering range	250 mm automatic 0.02+0.0005 0.01+0.00025 0.02+0.0005 0.015+0.00025 ±2 mm
Leveling range Measuring speed	±0.6° 1-12 1/min.
Bearing	air
Max load	400 N

Vertical a	xis (Z	axis)	
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Horizontal axis (R axis)

Measuring of	distance	350/550 r	nm

Measuring distance	220 mm
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### Dimensions/weight measuring system

Length	780 mm
Width	500 mm
Height	865/1065 mm
Weight	311 kg

All accuracy data in accordance with DIN 1101. Roundness deviations measured with filter 0-15 S/r; G rpm.; LSCI. Straightness deviations measured with cut-off 2.5 mm; 100 mm/min.; LSLI. All data refer to 20°C  $\pm$  1°C.



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<sup>\*</sup> Values as maximum deviation from the reference circle LSCI, filter 0-15 S/r LSC, 6 rpm.