

JENOPTIK  
GERMANY

HOMMEL-ETAMIC

## HOMMEL shaftscan 1030

### Measuring capacities

- Lengths up to 1000mm
- Diameters up to 300mm
- Part weights up to 1500N

### Evaluation

- Form and position
- Lengths and diameters
- All cam forms
- Chattermarks

### Optimised machine design

- Sophisticated design with integrated switch cabinet, PC, printer and accessories
- Optimum operating concept for every working situation due to the vertically adjustable evaluation unit
- Robust design and dual vibration decoupling
- Excellent basic accuracy due to high resolution measuring systems

### High economy

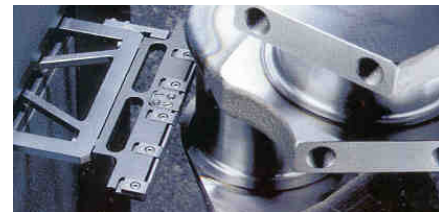
- High measurement and traversing speeds in connection with short evaluation times bring the decisive speed advantage
- Low follow-up costs due to the use of wear-free components
- The operator can run the calibration processes himself

### Software

- Fast, simple program creation by standardised input aids for crank shafts and cam shafts
- All positions are transferred directly by „teach-in“
- Fast, simple creation of informative measurement logs
- Certified qs-stat interface



Precision is our business.



## Technical Data HOMMEL shaftscan 1030

<b>Workpiece capacity</b>	
Max. length between tips <sup>1)</sup> [mm]	1000
Max. test diameter [mm]	300
Weight of workpiece [N]	1500
<b>Radial measuring system (X axis)</b>	
Measurement stroke [mm]	Incremental measuring system (glass scale) 210
Resolution [ $\mu\text{m}$ ]	0,02
Accuracy [ $\mu\text{m}$ ]	$\pm 0,2$
Setting range of measurement force (constant over measurement stroke)	1,2,3 und 4 N
<b>Measuring slide for positioning the stroke measuring system (Z axis)</b>	
Travel [mm]	Incremental measuring system (glass scale) 1290
Resolution of the Z scale [ $\mu\text{m}$ ]	0,1
Accuracy [ $\mu\text{m}$ ]	$\pm 5$
Travel speed [mm/s]	5 - 150
<b>Angle measuring system (C axis)</b>	
Resolution [ $^{\circ}$ ]	Incremental measuring system (glass scale) 0,00005
Accuracy [ $^{\circ}$ ]	$\pm 0,00028$
Run-out accuracy of the roller bearing [ $\mu\text{m}$ ]	0,3
<b>Ambient conditions<sup>4)</sup></b>	
Installation site	Vibration-free, firm base, no special foundations required
Operating temperature range	10...35°C
Temperature gradient	$\pm 0,5$ K/h
Workpiece structure	dust-free and free from machining and coolant residue
<b>Dimensions (WxHxD) [mm]</b>	
Measuring system	1130x2300x1650
Evaluation unit	650x variabel x 750
<b>Installation area (WxHxD) [mm]</b>	
1800x2300x1650	
<b>Weight [kg]</b>	
Measuring system with enclosure and evaluation unit	2100 kg
<b>Measuring time without loading and unloading</b>	
Measuring time for a 4 cylinder motor car crank shaft at approx. 43 measuring tracks without logging	approx. 8 min.
Measuring time for a 4 cylinder motor car cam shaft at approx. 17 measuring tracks without logging	approx. 2 min.

<sup>1)</sup> Recorded between standard tips. The length may be reduced dependent on the clamping device used.

<sup>4)</sup> acc. to EN 60204



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