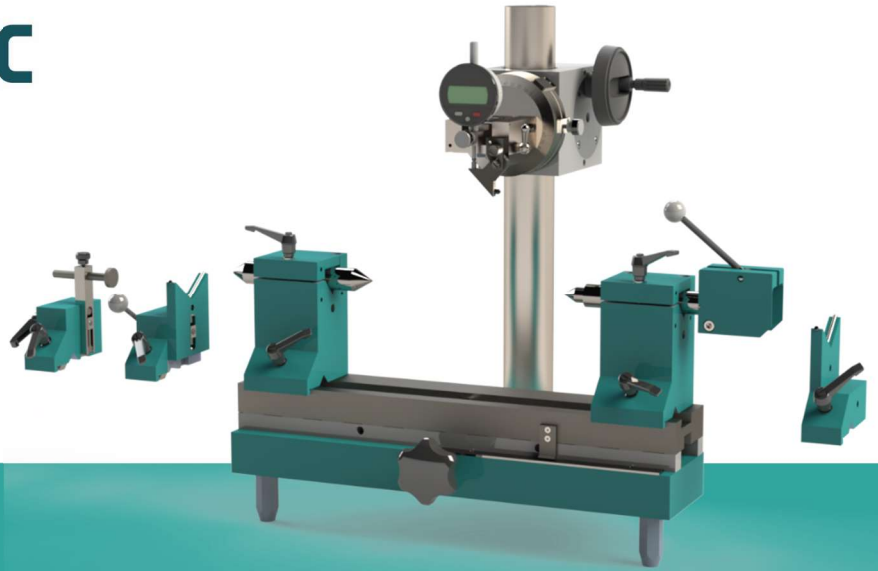


Manual Concentricity measuring device



- Measuring device for determining concentricity, axial runout, straightness/parallelism on rotationally symmetrical parts
- Measuring principle:
 - The test piece is turned on its own axis or moved longitudinally by hand and simultaneously scanned by a dial gauge




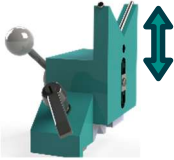
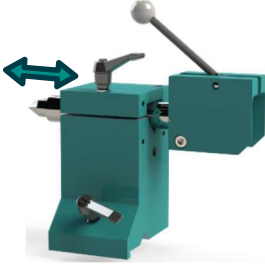
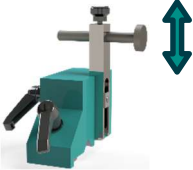












- Highlights:
 - Measuring carriage can be moved horizontally
 - High guiding accuracy of the measuring carriage
 - All adjustable parts fixable by means of a clamping lever
 - Quick change of the parts to be measured by swinging out the dial gauge
 - Angular adjustment of the measuring head
 - Deflection lever for axial runout measurement and for measurement of spherical surfaces, running surfaces, bevel gears etc.
 - Individual equipment with accessories (see page 3)



Technical Data

Test pieces	Turned parts in general External and internal gears (spur gears, bevel gears, worm gears) Cutting tools (cylindrical milling cutters, cutting wheels)
Test pieces with centring hole	
Length	0...245 mm
Test diameter	0...195 mm
Test pieces without centring hole	
Length	30...315 mm
Test diameter	0...195 mm (depending on the bearing journal)
Bearing journal diameter	3...85 mm
Diameter difference	0...16 mm (bearing journal)
Realisable measuring tasks	
Shape tolerance determination:	Roundness, concentricity, total runout Axial runout Straightness, parallelism
Gear thickness:	Radial single-ball dimension
Measuring and display device	
Dial gauge measuring range	$\pm 50 \mu\text{m}$
Dial gauge scale value	$1 \mu\text{m}$
Measuring head	
Vertical movement	0...160 mm
Stroke	5 mm (to be disengaged when changing the test piece)
Swivelling	$\pm 90^\circ$
Measuring carriage	
Horizontal movement	0...200 mm
Scale value	1mm
Storage	
Tip height	100mm
Tip width	0...245 mm
Dimensions	
Width x depth x height	470 x 340 x 490 mm
Weight	approx. 54 kg

Basic unit				
	Basic unit BK720-000	Individual equipment with: <ul style="list-style-type: none"> • 2 prisms + stop • 2 blocks with tip • 1 block with tip + 1 prism + 1 stop • Dial gauge • Measuring insert • Deflection lever for axial runout measurement • Special designs and accessories on request 		
Prisms and stop		Blocks with tip		
	Fixed prism BK720-210 Ø bear. journal 3...85 mm		Block with tip with single centring tip BK720-310 Centring tip one side pointed and one side with inner cone	
	Prism height adjustable BK720-220 Ø bear. journal 3...85 mm Adjustment range ±10 mm		Block with tip with spring-loaded centring tip BK720-320 Test piece clamping in with spring force Centring tip pointed	
	Stop height adjustable BK720-230 For axial fixing of the test piece			
Dial gauges				Deflection lever
				
Mech. dial comparator KT 001510 Range ±50 µm Scale value 1 µm	Mech. dial gauge KT000313 Range 10 mm Scale value 10 µm	Digital dial gauge KT001172 Range 12.5 mm Readout 10 µm	Digital dial gauge KT004826 Range 12.5 mm Readout 1 µm	Deflection lever BK720-330 90° deflection for axial runout
Measuring insert				
				
Measuring insert Disc ø10 KT012228	Measuring insert crowned ø10 KT005622	Measuring insert Pin ø1,5 KT000245	Measuring insert Ball ø2 KT003299	Measuring insert Transverse cylinder KT005176