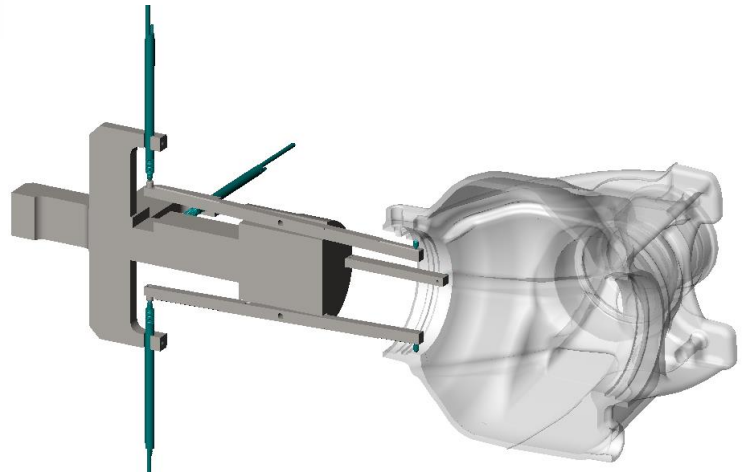



Multi-position measuring device Automatic

- Measuring device for determining shape, position and dimensional tolerances on bearing boreholes of cast transmission housings
- Measuring principle:
 - Scan of the bearing boreholes at 4 measuring points each with digital measuring sensors
 - Calculation of the diameter by means of arithmetic least square circle according to Gauss
 - Calculation of the axis distance of the bearing boreholes via centre calculation by means of a setup master mathematically corrected to the ideal dimension
- 100% inspection
- Four-part dial table for the parallel execution of work steps:
 1. Test piece insertion
NOK parts output with NOK documentation via error protocol
 2. Measuring
 3. DMC laser marking of the OK parts
 4. Check of the DMC readability via camera
OK parts output
- In addition:
 - Diameter measurement with hand-held borehole plug gauge
 - Handling of heavy test pieces by crane



Technical Data

Test piece	cast transmission housing with bearing boreholes	
Measurement data		
Diameter	0...110 ±0.002 mm	
Distances	0...250 ±0.005 mm	
Axis distance	0...25 ±0.01 mm	
Concentricity	±0.005 mm	
Measuring time incl. handling	3 min	
Measurement data processing		
Hardware	IPC	
Operating system	Windows	
Measuring data software	premeSTAR®	
Visualisation	Screen	
Storage	csv file	
Export	individual QA systems	
		
Machine control	SIMATIC S7 PLC	
Visualisation	Touch panel	
Electrical characteristic data	IEC	UL / CSA
Supply	400 V / 50 Hz / 16 A	480Y/277 VAC / 60 Hz / 16 A
Control voltage	24 V DC	24 V DC
Connected load	4 kVA	4 kVA
Compressed air connection	6 bar	
Airborne noise emission		
Maximum sound pressure level	<83 dB(A)	
Equivalent permanent noise level	<75 dB(A)	
Machine dimensions		
Width	2.4 m	
Depth	2.5 m	
Height	2.2 m	
Weight	2,500 kg	