



Workpiece Measurement



Workpiece Testing



Modular System



Post Process Measuring Technology



Low- & High-Volume Production



Temperature Measurement



Diameter Measurement



Length Measurement



Roundness Measurement



Cylindricity Measurement



Concentricity Measurement



BMK 5

MEASURING & AUTOMATION CONCEPT

BLUM
NOVOTEST



BMK 5

FLEXIBLE MEASURING AND AUTOMATION CONCEPT

In-Line-Module for Volume Production | Stand-Alone-System in Shop Floor Operation

The BMK 5 is a flexible, modularly extendable measuring cell, which is able to perform additional tasks such as handling, labelling and packaging of components, if appropriate modules are integrated. The spectrum of the BMK5 starts from small batch production, e.g. as flexible stand-alone-measuring and testing cell up to a fully integrated post-process-system for the highly productive volume production. Parts handling within the measuring cell will be effected automatically using a 6-axis robot.

Your benefit:

- Applicable as stand-alone system or as in-line module combined with a tooling machine
- Integrated as »end-of-line« or »post process« system with closed correction loop
- Pair measurement and sorting/pre-assembly
- Flexible equipped working area adaptable to various measuring tasks
- Manual or automatic loading/unloading
- Adaption of up to 9 measuring and test modules with zero point clamping systems
- High efficiency by minimum setup costs
- Automated measurement without additional staff assignment
- Measuring – testing – automation | complete solutions from a single source

Technical data

Standard dimensions outside	H = 2100 mm, D = 1400 mm, W = 1250 mm
Working area inside	H = 800 mm, D = 1150 mm, W = 1000 mm
Handling	Jointed-arm robot (hanging/standing)
Number of axes	6
Load capacity	up to 5 kg
Range	R 850 mm
Weight of workpiece	up to 3 kg
Cycle time	≥ 12 sec. (single gripper), ≥ 8 sec. (twin gripper)
Measuring/testing module	up to 9 modules possible
Sensor system	optical tactile pneumatic measurement
Measurement analysis	panel-PC with statistics software
Correction	optional correction interface
Automation level	manually to fully automated (conveyor interlinking)
Application field	small medium high-volume production
Temperature measuring range	0 °C to +45 °C
Weight	approx. 1500 kg



Part handling by 6-axis robot – internally as well as with adjacent machines



Labelling and data matrix code recognition



Post-process measuring cell for pump rotors



Extendable with automatic workpiece position detection by industrial imaging system