



Workpiece Measurement



Workpiece Testing



Modular System



Post Process Measuring Technology



Palletising



Low- & High-Volume Production



Temperature Measurement



Diameter Measurement



Length Measurement



Roundness Measurement



Cylindricity Measurement



Concentricity Measurement



BMK 3

MEASURING & AUTOMATION CONCEPT

BLUM
NOVOTEST

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

The BMK3 is a flexible, modularly extendable measuring cell, which is able to perform additional tasks, e.g. identification, sorting, classifying, identifying and packaging of components, if appropriate modules are integrated. The spectrum of the BMK3 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 between the machines and single measuring stations will be effected automatically using a 4-axis high-speed-robot with parallel kinematics.

Your benefit:

- Highly dynamic workpiece handling
- Prepared for conveyor-tracking with part position detection on the conveyor belt
- Applicable as stand-alone or interlinked system
- Integrated as »end-of-line« or »post process« system with closed correction loop
- Ideally for 100%-measurement of small parts
- Flexible equipped working area adaptable to various measuring tasks
- Manual or automatic loading and unloading by palletiser or automated by conveyor belt
- 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 = 2400 mm, D = 1900 mm, W = 2200 mm
Working area inside	H = 1100 mm, D = 1550 mm, W = 1250 mm
Handling	Hexapod-robot
Number of axes	4
Load capacity	up to 3 kg
Range	R 1130 mm
Weight of workpiece	up to 1.5 kg
Gripping technology	vacuum gripper electrical gripper
Cycle time	≥ 3 sec.
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	loading by palletiser or conveyor interlinking and conveyor tracking
Application field	small medium high-volume production
Temperature measuring range	0 °C to +45 °C
Weight	approx. 2500 kg



Part handling by 4-axis robot – with vacuum gripper



Extendable with industrial imaging system for precise optical measurement



Gripper exchanging system with gripper station



Classification, sorting, tray stacking and ejection on conveyor belt