

## MarForm MFK 600



Where even high-precision CMMs find the going tough, the MFK 600 impresses with its unique capabilities.

No-compromise mechanical design

All form parameters can be measured

Diameter and distance too

Accepted as the reference in the industry

Saves money due to automation

### Features

The Formtester MFK 600 consists of cleverly designed interchangeable modules which guarantee flexible application and easy adaptation to any measuring problem. The Formtester rests on a vibration and distortion free granite base. Its highly precise horizontal surface forms the datum for measurement. The workpiece loading table, with its air bearings, supports and guides heavy workpieces on the granite base.

Universal form measuring station with large measuring capacity

5 measuring and 2 alignment axes for the measurement of form and position

Rotating probe and automatic component positioning ensure easy handling and rapid alignment

Air bearings reduce maintenance and provide continuous operation

Safety probes prevent damage and enable multiple gauging

Large loading area for large components or groups of components

Roundness unit with automatic adjustment to the diameter, even with uncentered work-pieces

Straightness measurements in the 3 main axes (Z, X, Y) coordinates

Roundness measuring unit

The roundness measuring unit consists of the measuring spindle (C-axis) and an axis for automatically setting the probe to the diameter of the workpiece. With roundness measurements, the r-axis moves the probe along the workpiece contour, even for eccentric deviation exceeding the probe range.

Straightness measuring unit

The accuracy of the horizontal straightness measuring unit is guaranteed irrespective of the size, shape and weight of the workpiece, by the fact that the load air bearings and the guide bearings are separated from each other. Moreover, the vertical straightness unit (Z-axis) guides the roundness measuring unit along a granite surface.

Alignment axes (A and B)

Integrated into the workpiece loading table for aligning workpieces automatically within the measuring volume of the machine.

Measuring Performance

Automatic alignment functions permit continuous operation. Measurement data processing parallel to measurement data

acquisition greatly reduces measuring times. An extensive programme of accessories completes the universal measuring system and extends the range of application, e. g. into surface roughness.

## Application

MFK 600 - especially suitable for checking motor blocks, cylinder heads, transmission cases, elements of hydraulics, crankshafts and camshafts. Workpiece evaluation as per ISO 1101.

Form measurement on cylindrical features (cylinder bore, crank bore, shafts): roundness, straightness, cylindricity

Form measurement on flat features (seals and planes on head, block, thrust face): perpendicularity, straightness, flatness, total runout

Distance measurements possible: cylinder bores, valve guides, bearings

Diameter measurement possible: bores, pins, bearings

Additional movement axes, e. g. rotating the workpiece during the measurement, can be added any time. With these additional axes even the most complex measuring problems e. g. series measurements on V-shaped motor blocks can be performed fully automatically!

Kontakta oss för mer information!

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