

## MarForm | Form measuring instruments

The error-free functioning and durability of a workpiece is determined not only by its dimensions but above all by its form. Especially in the case of rotationally symmetrical workpieces requirements are rising all the time, whether in terms of roundness, flatness, straightness, coaxiality or runout. MarForm helps you to cut process costs without driving up testing costs – by stable, innovative devices with a maximum of automation, flexibility and accuracy.



# MarForm. Form tester for a wide variety of applications

## Form Measuring Instruments for Workbenches or Measuring Rooms

In many aspects of our daily lives, we put our faith in the reliable operation of technical components. From the ABS brakes, fuel injection system and gearbox in our car to our PC hard drive, from the compressor in the air conditioning system to the blades on our razor, not to mention the landing flaps on airplanes. The smooth interaction between moving parts is critical to their error-free function and durability. To guarantee this level of performance, rotationally symmetrical workpieces are manufactured under strict specifications for the permissible deviation from the ideal form. These tolerances can only be reliably tested with high precision, specially optimized form testers. MarForm helps you to cut process costs without driving up testing costs.

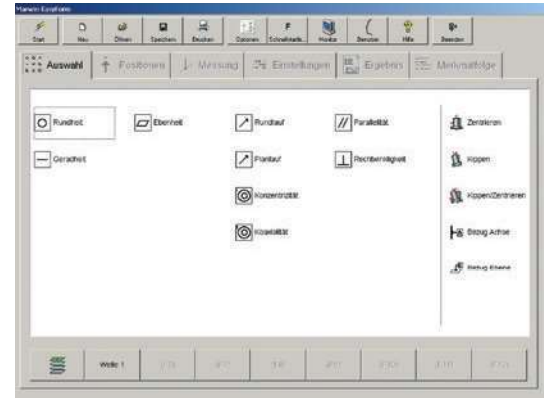


# MarForm MMQ 100

## Compact Form Measuring Machine

### FEATURES

- The MarForm MMQ 100 form tester is the ideal solution for simple yet precise measuring tasks
- Fast and accurate measuring results
- Mechanical bearings for reliability
- Large measuring volume
- Low weight and compact size for greater mobility
- Fast, computer aided workpiece alignment
- Centering and tilting knobs for coarse and fine adjustment
- Universal and reliable
- Workshop compatible, no compressed air connection required
- Touchscreen design eliminates the need for a keyboard or mouse
- Digital encoders in Z and X transfer the measuring position directly to the software



### OPTIONS:

- AdvancedForm
- Mahr QE QS-STAT data export

### VERSIONS

- **MMQ 100 with EasyForm** is a powerful PC based evaluation system running under Windows® 10. It offers meaningful color reports with user-friendly software for evaluating form and position tolerances (DIN ISO 1101): roundness, roundness within sections, radial runout, axial runout, concentricity, coaxiality, flatness<sup>(1)</sup>, straightness<sup>(1)</sup>, parallelism<sup>(1)</sup>, perpendicularity<sup>(1)</sup>.

<sup>(1)</sup> from one circular track

The **MMQ 100 measuring station with EasyForm** comes as a complete system. The MMQ 100 consists of the following:

- MarForm MMQ 100
- Digital encoders in X/Z
- T20W probe
- MarWin® EasyForm Software
- MarWin PC with WIN 10 operating system
- 24" TFT monitor
- Touch sensitive touch screen monitor (optional)



For more information, please visit our website: [www.mahr.com](http://www.mahr.com)

# MarForm MMQ 150

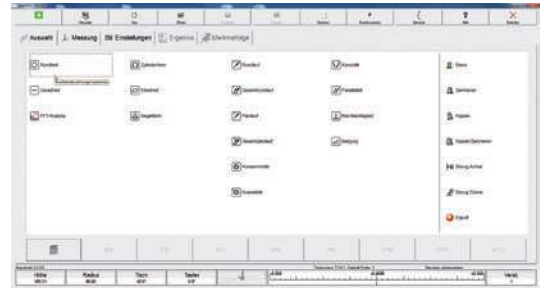
## Compact Form Measuring Machine

### FEATURES

- MarForm MMQ 150 - The entry into the world of cylindricity metrology, the MMQ 150 is an automatic measuring machine for the testing of form and location tolerances.
- Use in production or measuring room
- Fast and easy operation
- Measuring accuracy, optimized for cylindricity tolerances
- Reduces number of rejected parts, saves time, lowers production costs
- Maintenance free, high precision mechanical bearings

### OPTIONS:

- Rim chuck Ø 100 mm
- Various additional clamps
- Commutator analysis
- Vibrational velocity analysis
- Upgrade to MarWin AdvancedForm
- 22" touch screen instead of 24" monitor
- Probe arms of various lengths and with various stylus ball geometries
- Various double probe arms
- Various calibration standards
- Various equipment tables, some with vibration compensation



### VERSIONS

- The MMQ 150 measuring station consists of the following components:
- MarForm MMQ 150 form tester
- T20W length measuring probe with probe arm
- EasyForm Software for measuring and operating
- MarWin PC, Windows 10 operating system
- 24" monitor



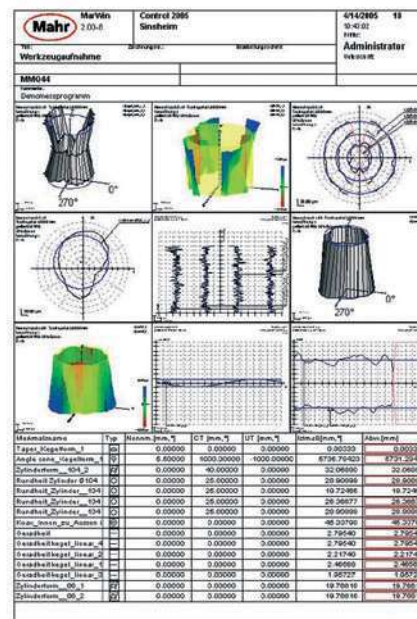
For more information, please visit our website: [www.mahr.com](http://www.mahr.com)

# MarForm MMQ 200

## Compact Form Measuring Machine

### FEATURES

- Compact form measuring machine for manufacturing workshops and inspection rooms
- Proof of form and position deviations as per DIN/ISO 1101
- Fully automatic measuring sequences
- Precision roundness measuring axis (C)
- Motorized vertical measuring axis (Z)
- Motorized horizontal positioning axis (X)
- Manual centering and tilting table
- T20W manual length measuring probe or
- T7W motorized probe
- Ergonomic control panel, can also be used to start select measuring programs (P1, P2, P3)



### OPTIONS:

- 22" touchscreen TFT monitor instead of the 24" standard TFT
- Roughness measurement and evaluation with MMQ 200/T7W
- MarWin Software, diameter evaluation
- Various clamps
- Probe arms of various lengths and with various stylus ball geometries
- Various double probe arms
- Various calibration standards

### VERSIONS

- The MarForm **MMQ 200** is available in two versions: As a measuring station with the universal measuring probe **T20W** and as a measuring station with the motorized measuring probe **T7W**, which takes automation another step forward with its unique motorization.
- The **MMQ 200** is operated with the **EasyForm** Software. It is controlled by means of touchscreen technology, which also makes operation with the mouse exceptionally easy.

#### Form measuring station with T20W

- MarForm MMQ 200 form tester
- T20W length measuring probe, manual, with probe arm
- EasyForm measuring and operating software
- Intel-class PC, Windows 10
- 24" TFT monitor
- Rim chuck Ø 100 mm

#### Form measuring station with T7W

- MarForm MMQ 200 form tester
- T7W length measuring probe with probe arm
- EasyForm measuring and operating software
- Intel-class PC, Windows 10
- 24" TFT monitor
- Rim chuck Ø 100 mm



For more information, please visit our website: [www.mahr.com](http://www.mahr.com)