

MARPOSS

M50

MANUAL SYSTEM FOR CHECKING BRAKE DISKS, DISKS AND DRUMS

NEW

Marposs has integrated the inspection for dimension, geometry, and non-destructive testing into the new M50 bench system. Perfect for inter-operational and final inspection applications, the M50 is able to perform all the dimensional, geometric and optional non-destructive evaluation typical required for brake disks, drums and hub type parts.

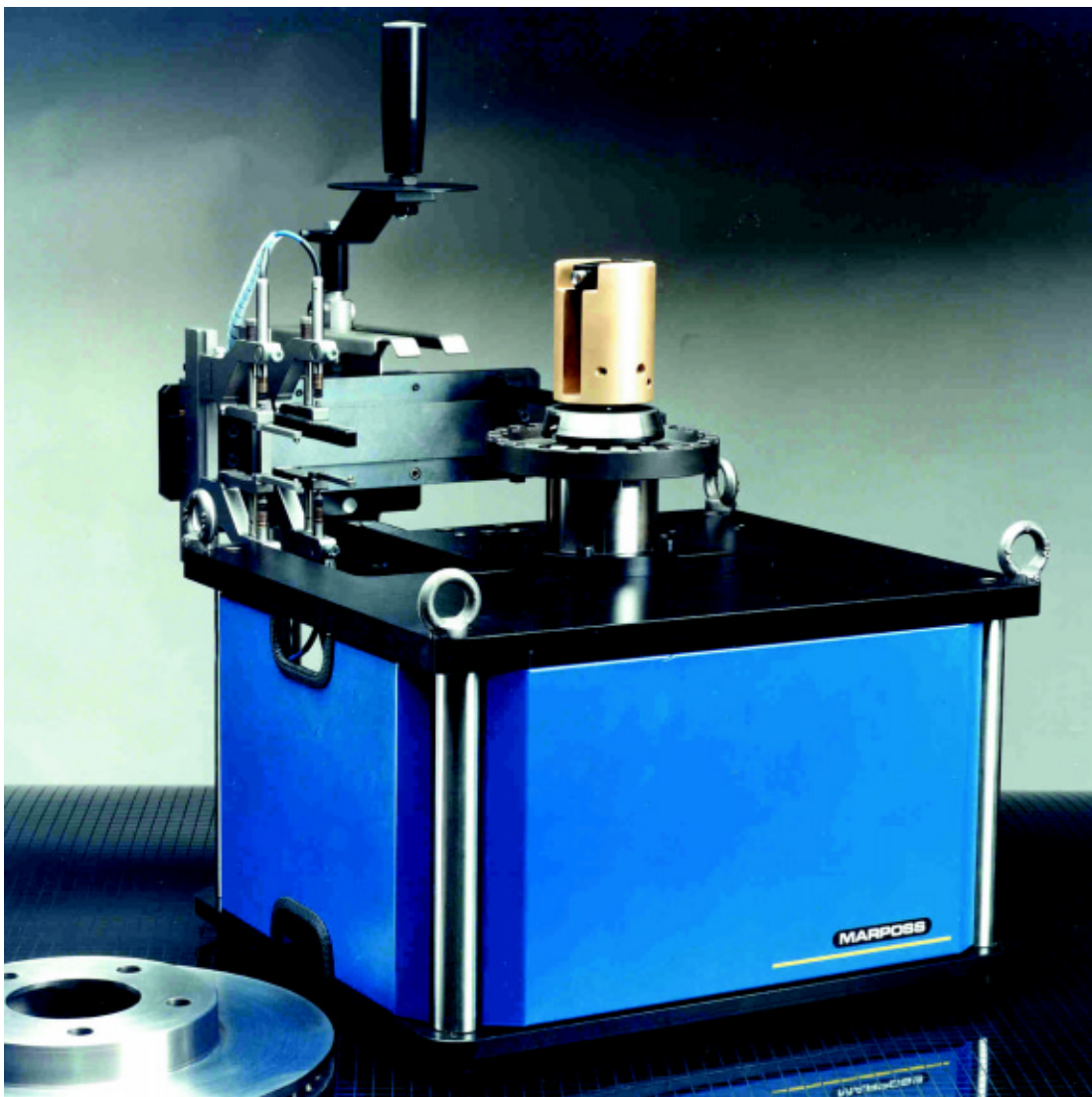
RELIABLE

The M50 system is an extremely reliable and accurate instrument, designed for measuring on the shop floor. Modular mechanics combined with the E9066 amplifier unit assures the high levels of reliability and accuracy necessary in this application sector.

COMPETITIVE

The use of standardized components in the M50, together with its rugged designs contribute to a significant performance improvement while reducing the life cycle costs of the

equipment. All these features make the M50 system exceed previous price/performance ratios while meeting the customer's request for shorter deliveries.



THE M50 SYSTEM

The gauge

The measuring station is assembled on a precision mechanical slide and, is equipped with Marposs measuring cells (LVDTs) and mechanics necessary for tight tolerance dimensional and geometric measurements. Replacing a few simple mechanical details and repositioning the measuring assemblies permits the M50 to be re-configured for a family of similar parts with different dimensions. The typical measurements performed on brake disks and drums are:

- diameter
- thickness
- taper
- parallelism
- perpendicularity
- T.I.R.

The part support is typically fixed and provided with carbide inserts to assure a long life while eliminating contaminants on the reference surface of the part during measurement cycles. An innovative automatic rotation group is seamlessly integrated into the base structure of the gauge.

The application

The M50 gauge is connected to the E9066™ Flat Panel industrial computer specifically designed for the shop floor environment. The electronic unit is equipped with our Quick SPC software package, which provides a simple yet powerful tool for displaying the M50 results:

- measurements; (up to 99 measures for each part type, measurement displays, graphic summary, bar-graphs, counters, transducer status, mastering summary, optional harmonics graphic displays, part synoptic...),
- process statistical control (X and R charts, X and S, Mobile Mean, Histograms, ...),
- process statistical analysis (Process and Machine Capability, Pareto analysis)

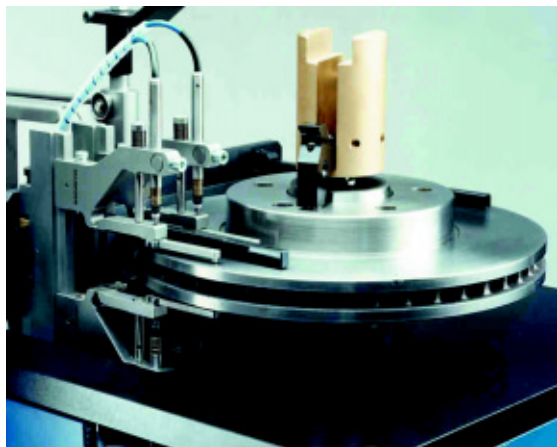
Advanced optional functions also allow the automatic compensation of the machine tools, multiple part types easily stored and retrieved, local networking (LAN), and user created or editing of the gauging application program.

The approximate M50 gauge's dimensions are:

Dimensions	Metric	Imperial	Notes
Lenght	400 mm	15.7"	M50 like in the photos
Width	700 mm	27.6"	M50 like in the photos
Heigh	600 mm	23.6"	M50 like in the photos
Weight	60 kg	132 lbs	M50 like in the photos

The standard application range for brake disk or drum is:

Dimensions	Minimum	Maximum	Notes
Outside diameter	100 mm (3.9")	360 mm (14.2")	



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<http://www.marposs.com>

D6M05000G0 - Specifications are subject to modifications
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Marposs holds ISO 9001 Quality System Certificate
 Has obtained EAQF 94 qualification and Q1-Award.

