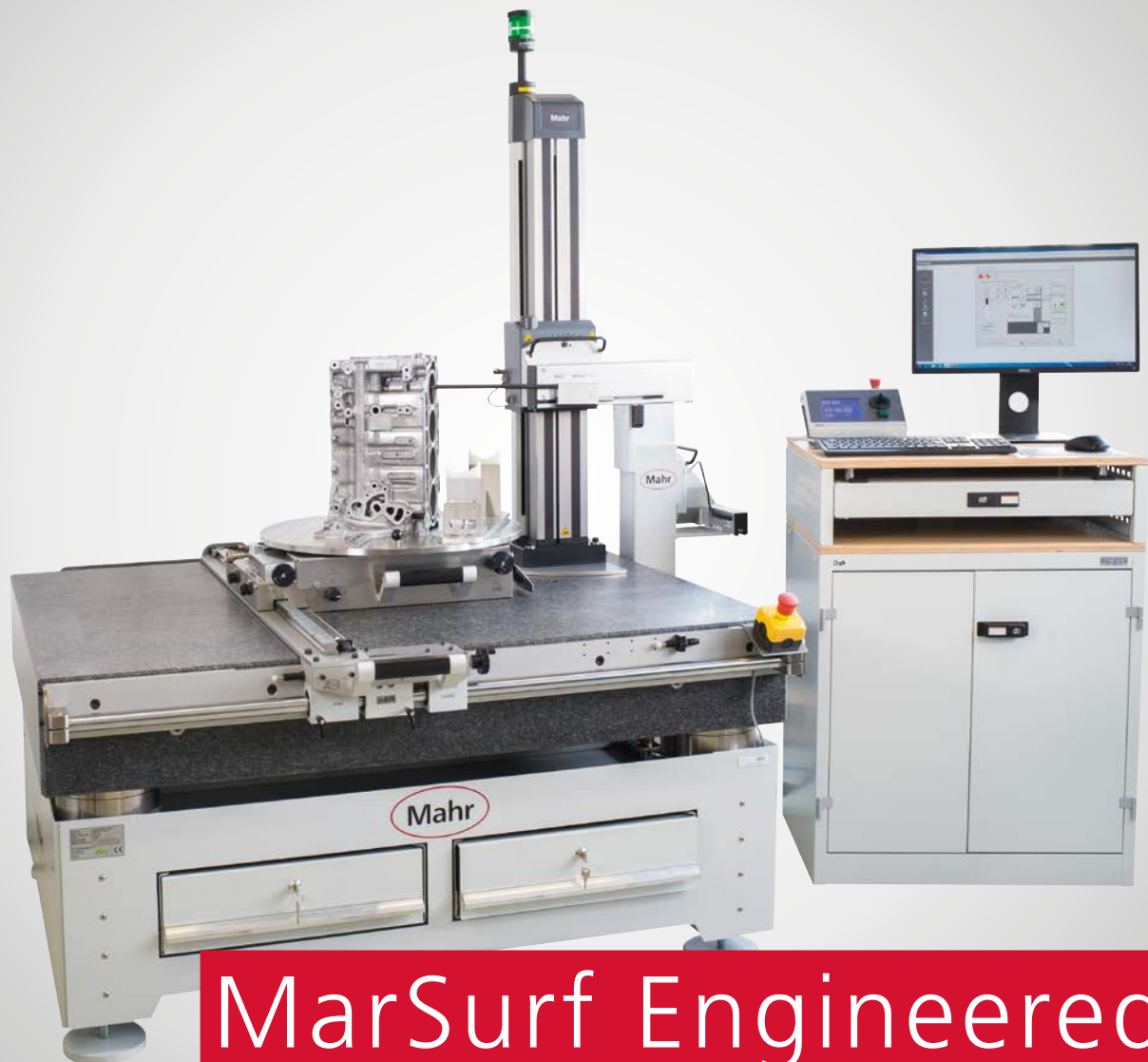


Engineered Solutions



MarSurf Engineered Series 002

MANUAL ROUGHNESS / CONTOUR MEASURING STATION FOR LARGE-VOLUME WORKPIECES

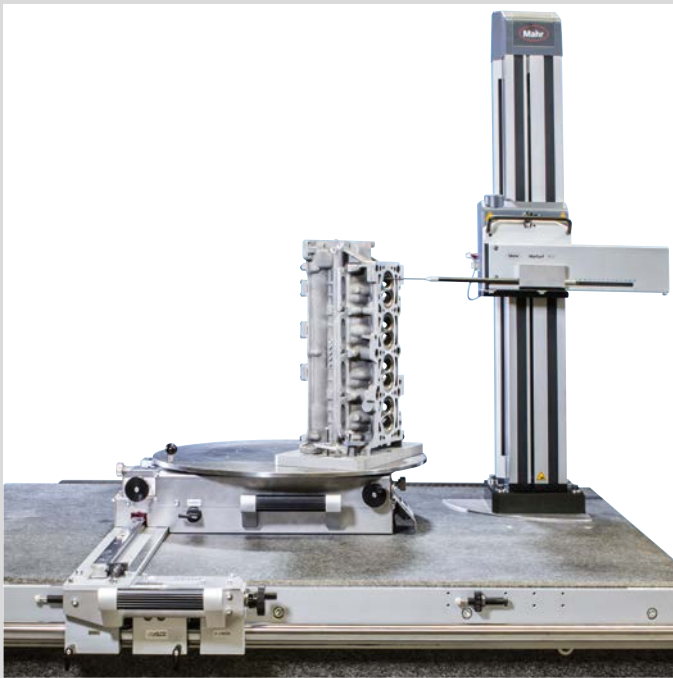
- Air bearing positioning axes
- Coarse and fine positioning of all axes
- Combinability of different drive unit types

This is what **EXACTLY** means to us.

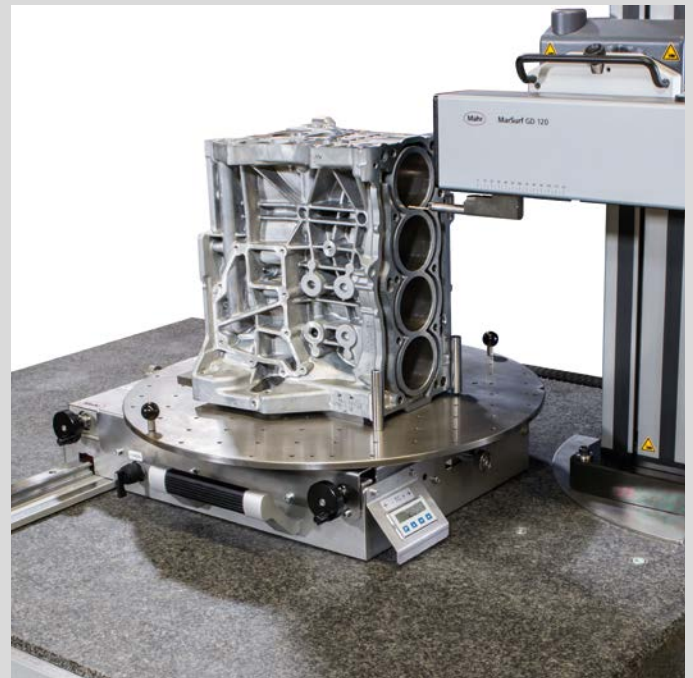


EXACTLY

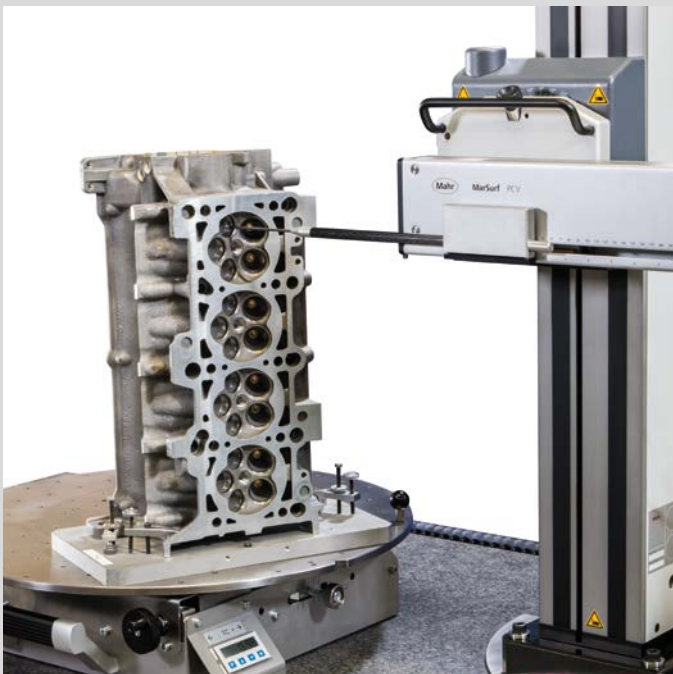
MEASURING STATION WITH AIR BEARING POSITIONING AXES FOR THE COMFORTABLE POSITIONING OF LARGER WORKPIECES



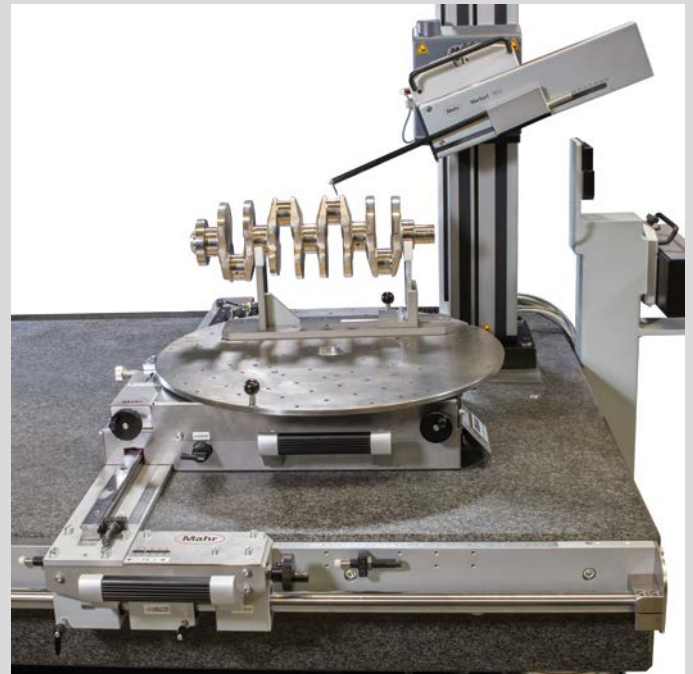
Contour measurement on cylinder head



Roughness measurement on engine



Edge measurement on cylinder



Contour measurement on crankshaft

MEASURING STATION WITH AIR BEARING POSITIONING AXES FOR THE COMFORTABLE POSITIONING OF LARGER WORKPIECES

The measuring station enables very simple and precise manual positioning of heavy workpieces. The workpiece positioning directions are TX, TY and TC.

Each axis can be set separately by means of coarse and fine adjustment and blocked using a fixing brake.

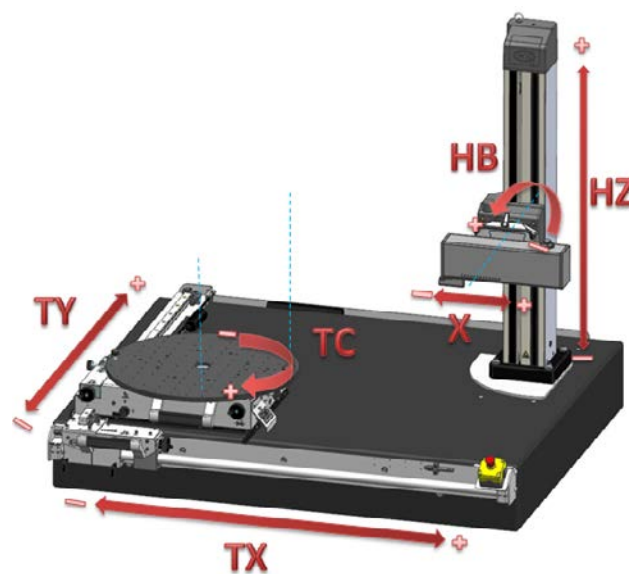
The axis system allows accurate reproduction of the position of the workpiece, ensuring the reproducibility and repeatability of the measurements.

A rotary table with a standard thread M6, spacing 50 mm (Witte system), is used for the workpiece mounting, so that special mounting devices can be assembled very simply and quickly.

Drive unit

The measuring station can be combined with all available drive units from the Mahr program MarSurf and standard software packages (e.g. GD 120 – PCV or GD 25 – PCV).

This flexibility allows the measuring station to be individually and optimally configured for the measurement task, whether roughness or contour measurement. In conjunction with a switch box, more than one drive unit can be used. The drive units can be changed by simply clicking the respective device in or out. The drive units which are not currently in use are located in a depositing station at the side of the measuring station.



Schematic representation of the axes

Delivery scope

- Base frame with hard rock, drawers and vibration isolation system
- Air bearing positioning table TX, TY and TC
- Drive unit and MarWin software
- Measuring column MarSurf ST 750 CNC

Typical applications

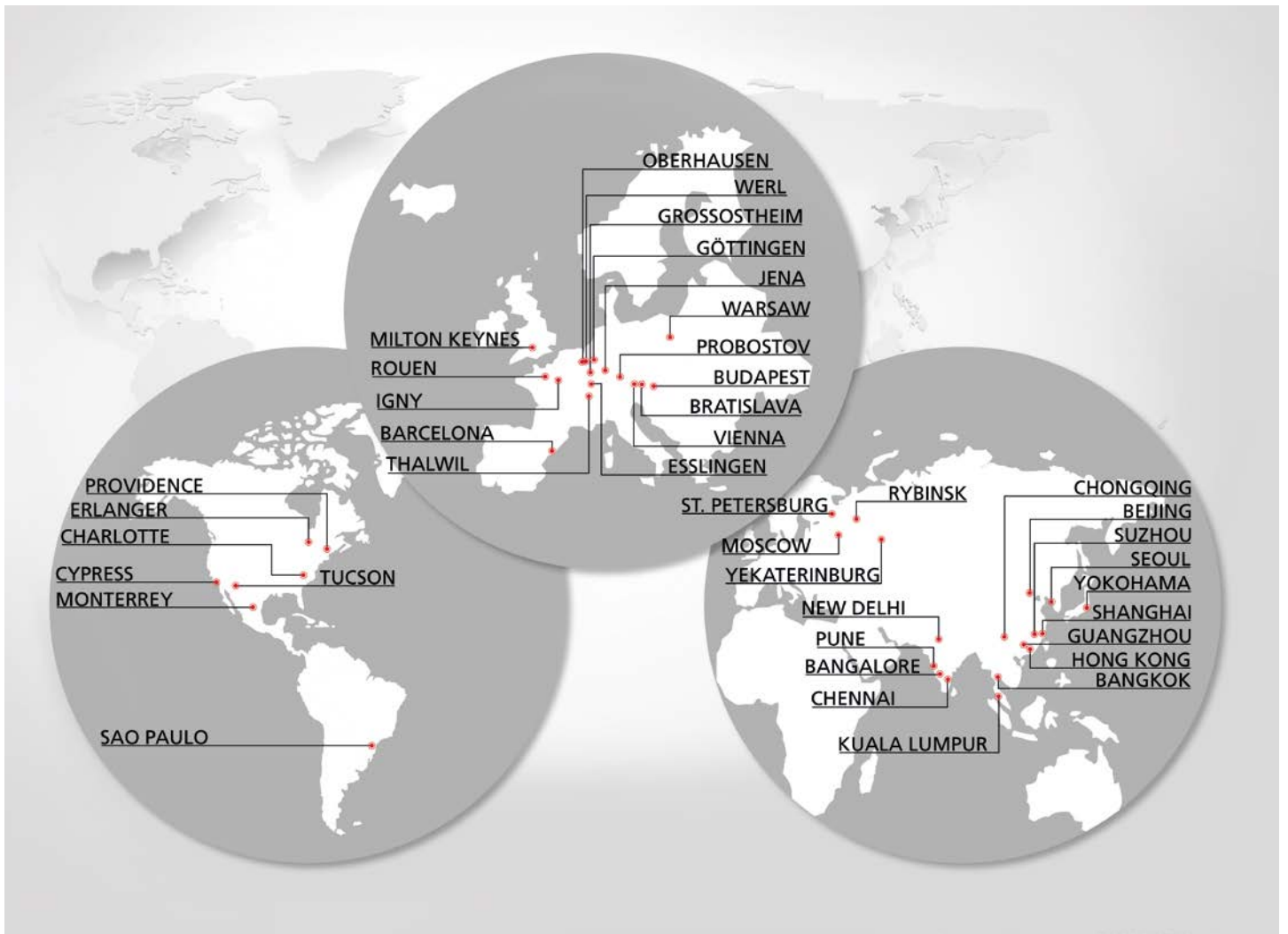
- Cylinder head and cylinder block
- Crankshaft
- Gear box
- All types of larger workpieces

Technical data

| | | |
|---------------------|-------------------|--|
| Measuring column HZ | 750 mm | |
| Table axis TX | 800 mm | Readable on steel scale, accuracy +/- 0,5 mm |
| Table axis TY | 650 mm | Readable on steel scale, accuracy +/- 0,5 mm |
| Table axis TC | Ø 600 mm - 350° | Position readable on LCD display (+/- 0,1°) |
| Axis system | Max. load: 300 kg | |

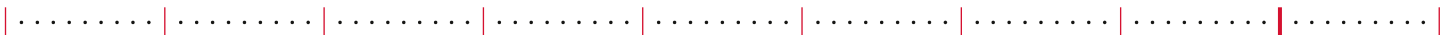
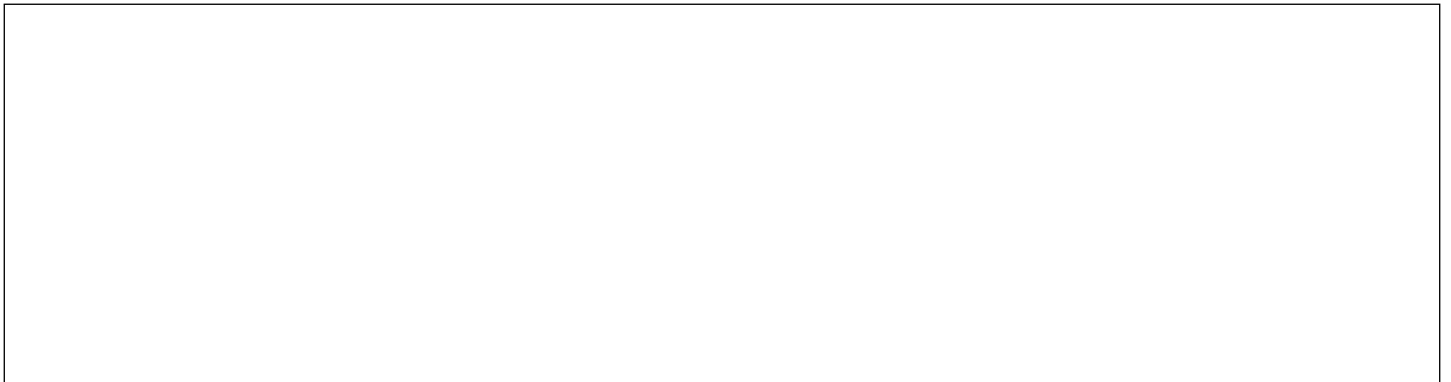
Note

This brochure presents standardized measuring stations. Workpiece-specific workpiece fixtures, probe arms, measuring programs and services are realized according to the customer's requirements.



Partner for manufacturing companies worldwide.

Close to our customers.



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3764039 | 01.2020

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