



CD contour measuring station 140AG11, Type: CD140AG11R



Order data

Order number	499301 CD140AG11R
GTIN	2050002079823
Item class	40W

Description

Version:

The MarSurf CD 140 A has a touch probe system with a measurement range of up to 70 mm, and the stylus tips can be changed quickly and without the need for any tools – all without recalibration. The entry-level contour measurement technology from Mahr
The unique new MarSurf CD 140 AG 11 contour measuring gauge enables fast and accurate measurements.

Manual contour measuring station

The device offers impressive versatility, is easy to operate and can be used directly on site on the workpiece in stationary or mobile applications.

Feature:

Resolution: 19 nm

Dimensions in mm: 572× 905× 822 mm

Measuring speed: 0.1 mm/s – 10 mm/s

Positioning speed: X: 0.1 mm/s – 200 mm/s

Probe: Contour measuring system

Measurement range in mm: 70 mm with contact point length 350 mm

Gauging force (N): 4 mN to 30 mN, can be set using software

Advantage:

Fast measurements and changeovers

- Short measuring times thanks to high positioning and measuring speeds

- **Manual quick adjustment of the feed unit in the Z-axis with fine adjustment for optimum alignment**
- **Change the contact point quickly without tools thanks to magnetic mounting – without the need for re-calibration**
- **Selection of measuring force prevents incorrect measurements**

Flexible and versatile in use

- **Workpiece mounting plate provides sufficient space, even for large workpieces**
- **Large measurement range of 70 mm for many and varied applications**
- **Maximum handling flexibility thanks to mounting plate with 50 mm hole size**
- **Wide selection of contact points and accessories**

Comprehensive software package

- **Measurement of double contours, e.g. to determine diameters**
- **Optional roughness measurement as from Rz 2 µm is possible**
- **Simple and intuitive contour measurement and evaluation**
- **Start Quick & Easy programs by reading in DMC codes**

Application:

The computer-aided measuring station permits comprehensive and quick evaluation of the measurement results:

- **Comprehensive contour measurement functions, fast and simple**
- **Stylus tips can be changed without the need for tools**
- **Traversing velocity in X axis of up to 200 mm/s**
- **Simple creation of programs or individual measurements with MarWin**
- **Automatic evaluation, best contour fit, CAD contour comparison and many more.**
- **Can optionally be expanded with roughness measurement feature (Rz > 2 µm)**
- **Measurements with double stylus tip are possible**
- **Quick adjustment of the Z axis with easy-to-use handle**
- **Flexible mounting plate with 50 mm hole grid, e.g. for KMG workpiece holders**

Mechanical engineering

Bearings, threads, threaded rods, recirculating ball screw spindles, shafts, gear racks.

Measurements in production environments

Contour measurement in a semi-automatic process.

Automobile industry

Steering, braking system, transmission, crankshaft, camshaft, cylinder head.

Medicine

Contours of hip and knee endoprotheses, contours of medical screws, contours of dental implants.

Supplied with:

Contour measuring machine, machine base incl. Y adjustment, PG A 36-350-25 contact element, MarWin EasyContour plus mobile software, contour calibration standard with 2 balls (45 mm and 6 mm). Incl. roughness option.

Optional extras:

PC, probe elements No. 499314 – 499318.

Note:

Commissioning and training available on request. **Only available in Germany and Austria!**

Technical description

Contact point length	350 mm
Resolution	19 nm
Depth	572 mm
Measuring speed X	0.1 - 10 mm/s
Guide deviation Z	1 (over 140 mm) μm
Width	822 mm
Height	905 mm
Positioning speed in X	1 - 200 mm/s
Measuring range Z	70 mm
Traverse path X	140 mm
Gauging force	4 - 30 mN
Type of product	Contour measurement bench