

# Product information

## Contour measuring station MarSurf CD 280

### Product features

#### Contour measuring in a new dimension

The new MarSurf CD series from Mahr sets new standards when it comes to contour testing. With the new MarSurf CD series, manufacturing companies are entering a new dimension in order to reliably secure and improve the manufacturing quality of workpieces in the measuring room or close to production. The new measuring station concept combines speed, reliability and flexibility. The aim is to increase the profitability of the system for your company.



Item no.: 6269004

### Technical data

#### Application

##### **Mechanical engineering**

Bearings, threads, threaded rods, ball spindles, shafts, racks

##### **Measurements close to production**

Semi-automatic contour measurement

##### **Automotive Industry**

Steering, brake system, transmission, crankshaft, camshaft, cylinder head

##### **Medical technology**

Contour of the hip and knee endoprostheses, contour on medical screws, contour on dental implants

<b>Resolution</b>	max. 6 nm (with 210 mm probe arm)
<b>Start of traversing length (in X)</b>	0.1
<b>Probe arm length</b>	210 mm; 350 mm; 490 mm
<b>Guide deviation</b>	0.35 µm / 60 mm 0.40 µm / 140 mm 0.75 µm / 280 mm
<b>Measuring speed</b>	0.02 mm/s to 10 mm/s
<b>Workpiece weight max.</b>	90
<b>End of traversing length (in X)</b>	280.0
<b>Positioning speed</b>	X: 0.02 mm/s to 200 mm/s Z: 0.02 mm/s to 50 mm/s
<b>Probe</b>	Contour probe system
<b>Measuring range mm</b>	70 mm with probe arm 350 mm long max. 100 mm with 490 mm long probe arm
<b>Traversing lengths</b>	0.1 mm to 280 mm
<b>Measuring force (N)</b>	4 mN to 30 mN, adjustable via software
<b>Weight (gross)</b>	200 KG