

Product information

Contour measuring station MarSurf CD 140

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.: 6269000

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

Resolution	max. 6 nm (with 210 mm probe arm)
Start of traversing length (in X)	0.1
Probe arm length	210 mm; 350 mm; 490 mm
Guide deviation	0.35 µm / 60 mm 0.40 µm / 140 mm
Measuring speed	0.02 mm/s to 10 mm/s
Workpiece weight max.	90
End of traversing length (in X)	140.0
Positioning speed	X: 0.02 mm/s to 200 mm/s Z: 0.02 mm/s to 50 mm/s
Probe	Contour probe system
Measuring range mm	70 mm with probe arm 350 mm long max. 100 mm with 490 mm long probe arm
Traversing lengths	0.1 mm to 140 mm
Measuring force (N)	4 mN to 30 mN, adjustable via software
Weight (gross)	200 KG
Measuring speed	0.02 mm/s to 10.00 mm/s
Versions	<p>MarSurf CD 140 BG 11</p> <ul style="list-style-type: none"> •140 mm X-Achse •350 mm Z-Achse •without angular adjustment of the X-axis <p>MarSurf CD 140 BG 12</p> <ul style="list-style-type: none"> •140 mm X-Achse •350 mm Z-Achse •with angular adjustment of the X-axis <p>MarSurf CD 140 BG 21</p> <ul style="list-style-type: none"> •140 mm X-Achse •600 mm Z-Achse •without angular adjustment of the X-axis <p>MarSurf CD 140 BG 22</p> <ul style="list-style-type: none"> •140 mm X-Achse •600 mm Z-Achse •with angular adjustment of the X-axis <p>MarSurf CD 280 BG 11</p> <ul style="list-style-type: none"> •280 mm X-Achse •Version mit 350 mm •without angular adjustment of the X-axis <p>MarSurf CD 280 BG 12</p>

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- 140 mm X-Achse
- 350 mm Z-Achse
- with angular adjustment of the X-axis

MarSurf CD 280 BG 21

- 280 mm X-Achse
- 600 mm Z-Achse
- without angular adjustment of the X-axis

MarSurf CD 280 BG 22

- 280 mm X-Achse
- 600 mm Z-Achse
- with angular adjustment of the X-axis

All variants have a 60 mm table axis (TY), which can be either manual or motorized.