

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 mm
End of traversing length (in X)	140.0 mm
Traversing length (Lt)	0.1 - 140 mm
Guide deviation	0.35 μ m / 60 mm 0.40 μ m / 140 mm
Measuring force (N)	4 mN to 30 mN, adjustable via software
Measuring speed	0.02 mm/s to 10 mm/s
Positioning speed X-axis min.	0.02 mm/s
positioning speed X-axis max.	200 mm/s
Positioning speed X axis	0.02 - 200 mm/s
Positioning speed Z-axis	0.02 - 50 mm/s
Positioning speed Z axis max.	50 mm/s
Positioning speed Z-axis min.	0.02 mm/s
Probe	Contour probe system
Probe arm length	210 mm; 350 mm; 490 mm
Weight (gross)	200 KG
Workpiece weight max.	90 kg
Other functions	manuelle TY
Measuring range mm	70 mm with probe arm 350 mm long max. 100 mm with 490 mm long probe arm