Product information

Roughness and contour measuring station MarSurf VD 280

Product features

MarSurf VD Series - The MarSurf family is complemented: The easy change between roughness and contour tracing system

Depending on the measuring task, either the BFW roughness probe system for surface roughness or the C 11 contour probe system for contour measurements can be changed by the operator (hot-plug capable). The new system offers the advantages of combining the highly dynamic C 11 contour probe system with the high-precision BFW probe system, which is particularly suitable for fine surfaces.

The new measuring station concept combines speed, reliability and flexibility.
The aim is to increase the profitability of the system for your company.
The measuring stations are operated with the user-friendly MarWin software (MarWin Easy Roughness & Contour or MarWin Professional Roughness & Contour).

Application

Mechanical engineering
Bearings, threads, threaded rods, ball screws, shafts, racks

Metrology close to production
Contour measurement in a semi-automatic process

Automotive
Steering, brake system, gearbox, crankshaft, camshaft, cylinder head

Medicine
Contour measurement for hip and knee endoprostheses, medical screws, dental implants

Item no.: **6269022**

Technical data

Resolution	with roughness probe system: Measuring range 1: 2.0 nm Measuring range 2: 0.2 nm with contour probe system: max. 6 nm (with 210 mm probe arm)
Start of traversing length (in X)	0.1 mm
End of traversing length (in X)	280.0 mm
Traversing lengths	0.1 mm to 280 mm
Guide deviation	with roughness probe system: 0.20 µm / 60 mm 0.40 µm / 140 mm 0.75 µm / 280 mm
Measuring force (N)	with roughness probe system: 0.7 mN 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	Roughness probe system (skidless) Contour probe system
Probe arm length	with roughness probe system: 45 mm to 135 mm with contour probe system: 210 mm to 490 mm
Weight (gross)	200 KG
Workpiece weight max.	90 kg
Measuring range mm	with roughness probe system 500 µm (±250 µm) for probe arm length 45 mm 1500 µm (±750 µm) for probe arm length 135 mm with contour probe system 70 mm with probe arm length 350 mm max. 100 mm with probe arm length 490 mm