

## MarSurf UD 130 / LD 130 / LD 260

### Combined Contour and Surface Measuring Station

#### DESCRIPTION

##### MarSurf UD 130

The MarSurf UD 130 closes the gap between the high-end solution MarSurf LD 130/LD 260 and the new standard combination measuring station MarSurf VD140/280 with two probe systems.

The technical specifications of the MarSurf UD 130 are based on the interferometric probe system and the positioning speeds that reduce the measuring time for each workpiece.

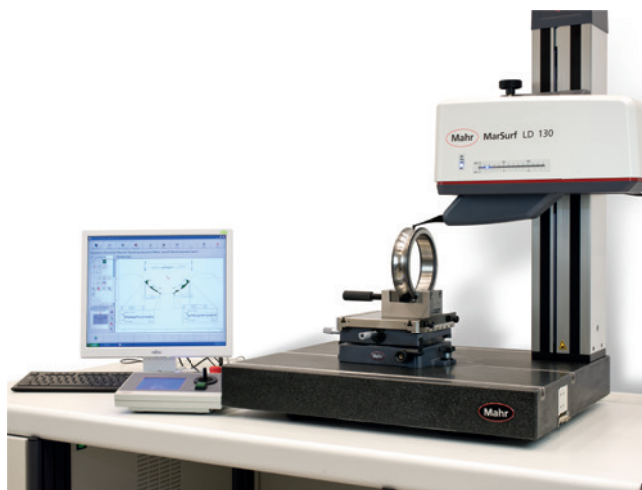
##### MarSurf LD 130 / LD 260. A step into a new dimension

Combined contour and roughness measurements in just one step comes courtesy of proven cutting-edge technology from Mahr metrology. The MarSurf LD 130 and MarSurf LD 260 measuring stations have been systematically developed to draw on the experience from the first generation of equipment.

- Roughness and contour in just one step
- High measuring and positioning speed cuts measuring times dramatically
- Innovative probe system removal
- Quick and reliable probe arm exchange with simultaneous probe arm detection by magnetic holder
- Long measuring length up to 260 mm (MarSurf LD 260) with a measuring stroke of 13 mm (100 mm probe arm length) or 26 mm (200 mm probe arm length)
- Modular construction for ease of maintenance
- No need to fully dismantle the measuring stand for maintenance

##### Supplied with:

- MarSurf XCR 20 including midrange LD, MarWin software Easy Roughness & Contour, Mahr license key
- TFT monitor
- MCP 21 manual control panel
- MarSurf LD 130 or LD 260 drive unit including LP D 14–10–2/60 LP D 14–10–500 probe system and probe arms
- Calibration standard for contour 1, accuracy class 1
- MarSurf ST 500 CNC measuring stand with 700 mm x 550 mm granite plate (including control module)
- Dampening element set
- CT 300 XY table



#### TECHNICAL DATA

	UD 130	LD 130	LD 260
Traversing lengths	0.1 mm to 130 mm	0.1 mm –130 mm	0.1 mm –260 mm
Measuring force	1 mN to 30 mN, software-adjustable	0.5 mN to 30 mN, software-adjustable	0.5 mN to 30 mN, software-adjustable
Resolution	2 nm	0.8 nm	0.8 nm
Measuring speed	0.1 mm/s to 5 mm/s; for roughness measurements 0.1 mm/s to 0.5 mm/s are recommended	0.02 mm/s to 10 mm/s; for roughness measurements 0.1 mm/s to 0.5 mm/s is recommended	0.02 mm/s to 10 mm/s; for roughness measurements 0.1 mm/s to 0.5 mm/s is recommended
Positioning speed	0.1 mm/s to 30 mm/s	0.02 mm/s to 200 mm/s	0.02 mm/s to 200 mm/s

#### APPLICATIONS

##### Machine building

- Roller bearings, threads, threaded rods, ball screws, shafts, racks, ball heads, valves

##### Measurement close to the production area

- Contour and surface roughness measurement in semi-automatic and fully automatic operation

##### Automotive industry

- Engine parts including cylinder block, cylinder head, crankshaft, camshaft, valves, steering, gearbox, injection systems, turbocharger

##### Medicine

- Contour and surface roughness measurement for hip and knee endoprostheses, contour measurement for medical screws, contour and surface roughness measurement for dental implants

##### Optics

- Contour and surface roughness measurement of aspherical lenses

#### ACCESSORIES

- ST 750 measuring stand
- Parallel V-block
- V-block, equipment table
- Measuring cabinet
- Extensive range of probe arms

##### Software options

- Profile processing
- Dominant waviness (WDc) for MarWin
- ISO 13565–3 surface parameters
- User defined parameters
- Topography
- Topography with Mfm
- Thread evaluation
- Chamfer evaluation (in accordance with Bosch standard)
- QS-STAT / QS-STAT Plus
- Digital I/O set



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