

Informazioni prodotto

Misuratore portatile di superfici MarSurf M 410

Caratteristiche del prodotto Simple, innovative, flexible – modern surface metrology for handheld use

- Handy roughness tester for mobile use
- Simple and intuitive operation: As easy as operating a smartphone
- Large, backlit 4.3" TFT touch display
- Rotatable display
- Magnetic probe holder: Fast probe arm change without tools
- Thanks to skidless probe: measurements of roughness as well as waviness – no extra measuring station required, determination of R, W and P parameters
- Simple alignment of the probe system: The inclination can be easily corrected using the menu-guided graphic instructions./li>
- Process and material safety thanks to automatic zeroing
- Micro USB interface for remote control via ASCII commands, e.g. via software for statistical process control
- USB-A interface for connecting e.g. a USB Bluetooth adapter or the USB Bluetooth printer
- Wireless transmission of measurement results via Bluetooth stick to the free MarCom software
- Remote start of measurement via cable or Bluetooth
- Connection of a scanner for automatic start of the measuring programs or reading of protocol texts via barcode or QR code
- Specification of the profile section label C in μm or in % of Rz for the characteristic values Rmr and tp/li>
- Data backup as TXT, X3P, CSV and PDF file
- Transmission of measurement protocols and data optionally via Bluetooth or cable
- IATF 16949 compliant - secure traceability with MarConnect.
- Print directly to the mobile printer (as an option or directly in the set with printer)
- Creation of finished PDF protocols directly in the measuring device



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Dati tecnici

Velocità di posizionamento	3 mm/s
Principio di misurazione	Tactile stylus method
Unità di misura	metric/inch
Forza di misura (N)	0.00075
Filtro a norma ISO/JIS	Gaussian filter according to DIN EN ISO 16610-21, robust Gaussian filter according to DIN EN ISO 16610-31, special filter according to DIN EN ISO 13565-1, Is filter according to DIN EN ISO 3274 (can be switched off)
Cutoff lc a norma ISO/JIS	0,08 mm, 0,25 mm, 0,8 mm, 2,5 mm, Selezione automatica del filtro, variabile
Cutoff corto a norma ISO/JIS	selectable
Numero n di tratti di misurazione singoli a norma ISO/JIS	selectable: 1 to 16
Velocità di misura	0.1 mm/s a 1 mm/s
Interfaccia dati	USB A, MarConnect (RS-232), microSD Slot per schede SD/SDHC fino a 32 GB
Lingue:	Tedesco, Inglese, Francese, Italiano, Spagnolo, Portoghese, Olandese, Svedese, Russo, Polacco, Ceco, Giapponese, Cinese, Coreano, Ungherese, Turco, Romeno
Opzione di memoria	min. 3900 profiles, min. 500,000 results, min. 1500 PDF logs, expandable with microSD card up to 32 GB (increases storage capacity by a factor of 320)
Tastatore	inductive skidless probe system
Classe di protezione IP	IP 40
Umidità rel.	30 % to 85 %, non-condensing!
Peso (lordo)	4.63 KG
Peso dell'apparecchio di analisi	300 g
Peso dell'unità traslatrice	1120 g
Dimensioni in mm	198 mm x 77 mm x 97 mm
Dimensioni (L x P x H) dell'apparecchio di analisi in mm	162 mm x 77 mm x 35 mm
Dimensioni (L x P x H) dell'unità traslatrice in mm	194 mm x 38 mm x 72 mm
Altro	Lock/code word protection, date/time
Raggio puntina	2 μm ; 5 μm
Parametri	Ra, Rq, Rz, Rz (JIS), Rz (Ry (JIS) conforme a Rz), Rmax, Rp, Rp (ASME), Rpm (ASME), Rv, R3z, Rk, Rpk, Rvk, Mr1, Mr2, A1, A2, Vo, Rt, RPl, Rmr (tp (JIS, ASME) conforme a Rmr), RSm, RS, Rdq, RSk, Rku, Rdc, RHtp, Pdc, Pa, Pt, PMr, Wa, Wq, WSm, WSk, Wt, CR, CF, CL, R, Ar, Rx, W, AW (MOTIF), Wx (MOTIF), Wte (MOTIF), NW (MOTIF), NR (MOTIF), NCRX (MOTIF), CPM (MOTIF)

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- Customer-specific comments for the PDF log are entered directly on the MarSurf M 410
- MRK and ADK curve display and printing
- Measuring programs are saved (Quick & Easy)
- Mains-independent operation: over 1200 measurements without having to recharge the device
- Everything in the palm of your hand. Small size and low weight (approx. 500 g)
- Flexible device: Removable drive unit
- More than 50 parameters: Offer a performance range like a laboratory instrument.
- Quick access to your desired functions through favorites storage in the display
- Automatic cutoff selection: ensures correct measurement results even for the non-measuring technician
- Free software "MarWin Easy Roughness Viewer" for further documentation (statistics, multiple profiles and results on one page etc.) available for download on the Mahr website.

Applicazioni

Mechanical engineering

Bearings, shafts, racks, valves, various components from the engineering and precision mechanics industries

Automotive

Steering, brake systems, transmissions, crankshafts, camshafts, cylinder heads, cylinder blocks, turbochargers

Medical

Roughness measurement on hip and knee endoprostheses

Aerospace

Turbine components

Optics

Diverse optical components

Dati tecnici

Grado di protezione	IP 40
Batteria	Li-Ion battery, 3.7 V, nominal capacity 11.6 Wh, min. 500 measurements
Alimentatore a tensione variabile	100 to 264 V
Campo di misura mm	500 μm ($\pm 250 \mu\text{m}$) for probe arm length 45 mm to 1500 μm ($\pm 750 \mu\text{m}$) for probe arm length 135 mm

Dimensioni

Dimensioni in mm	198 mm x 77 mm x 97 mm
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Accessori

Cod. ordine	Designazione	Tipo
4102603	Cavo dati USB bi-direzionale	DK-U1
6852403	Probe arm	BFW
6710803	Stativo 300 mm con base pressofusa	ST-D
6710806	Stativo 300 mm con piano in granito	ST-F
6710807	Stativo 300 mm con piano in granito e scanalatura a T	ST-G
6710401	Blocco prismatico	PP
6710604	Morsa parallela	PPS
6710529	Tavola a croce XY	CT 120
4246819	Mini morse di precisione in set	109 PS
6820420	campione di rugosità con certificato di collaudo, profondità profilo 10 μm	PRN 10