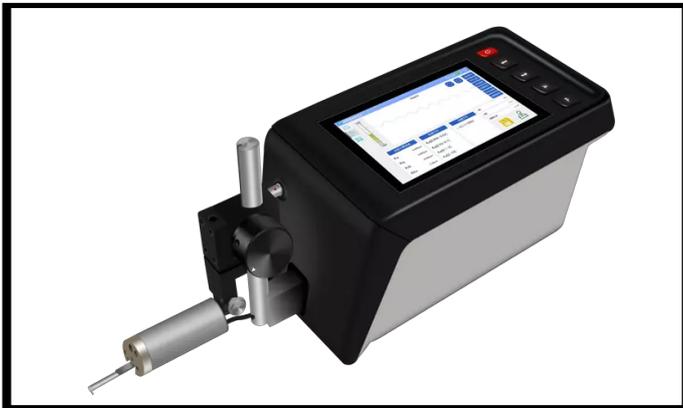


MIDLAND METROLOGY LTD

iSurfa-300 Roughness Waviness Tester



Description

- Can evaluate five measurement types: Roughness Profile, Waviness Profile, Primary Profile, Abbott Curve and Motif.
- No need for cumbersome settings when measuring different workpieces.
- High precision large stroke guide rail, length up to 50mm
- Sensor range +/- 500um
- The all in one machine is convenient to carry and comfortable to operate.
- Skidless measurement for more realistic feedback.
- The stylus can be replaced and is easy to do.
- The sensor can be switched vertically or in the same direction with the guide rail at will, so the measurement of deep grooves can be made from the side without being limited by the depth of the stylus and groove.
- Can be switched between metric and imperial.
- Built in memory for data storage.

Packing List

	Name	Qty.
	Main Unit	1
	Sensor	1
Standard	Charger	1
Configurations	Standard Stylus	2
	Roughness Test Block	1
	Certificate	1
	Manual	1
	Warranty Card	1
	Case	1
	Allen Wrench (2.5mm)	1

Technical Specification

Range	X:30mm / Z:±500µm
Resolution	X:0.0016µm/±50µm - 0.016µm/±500µm
Straightness	1µm/30mm
Roughness Profile	Ra75,Rq,Rp,Rv,Rc,Rt,S,R3z,PPI,Ra,Rsk Rku,Ry,Sm,Rz,Pc,Ir, RSM, Rz94, R _{Pc} , Rz, I, R _{pm} , HSC
Waviness Profile	WCA,WCC-q,WCC-p,WCC-v,WCC-m, WCC-Sm, WCA, WC-q, WC-p,WC-v, WC-m WC-Sm,WC-t, Wa,Wq,Wsk,Wku,Wp,Wv, Wc,Wt,W _{Sm} ,W _{Pc} .
Primary Profile	Rsk,Rku, Rmax, Sm,Rz, Ir, TILT A,AVH Hmax, Hmin, AREA, Rzj, Pa, Pq, Psk, Pku, Pp, Pv, Pc, I, Pt, P _{Sm} , P _{Pc} , P _c .
Abbott Curve	Rk, R _{pk} , R _{vk} , Mr1, Mr2, VO,K, A1, A2
Motif	NCRX, AR, R, Rx, NR, CPM, S-R, SAR, AW, W, Wx, Wte, NW, SW-, SAW, Rke, R _{pk} , R _{vk} , Mr1, Mr2, VO, K
Evaluation Curve	Roughness, Waviness and Primary Profile, Abbott Curve and Motif
Characteristic Curve	Abbott Curve (R _{mr} c), (R _{mr} 2 c), R _{dc} (c.), tp (c.), tp2 (c.) Htp(c.) Amplitude freq. analysis curve, amplitude distribution curve.
Form Remove	Global, First Half, Second Half, Center, Two Points, Curve.
Filter Type	Gaussian, FFT, PC, DP, 2RC
Filter Wave Length	0, 2.5, 8, 25µm 0.08, 0.25, 0.8, 2.5, 8mm 0.8, 2.5, 8, 25mm
Evaluation Length	Sampling Length x Number of Samples
Measurement	0.05mm/s, 0.10mm/s, 0.50mm/s
And Return Speed	1.00m/s, 2.00mm/s
Sensor	Range ±500µm Stylus 5µmR Diamond 90° Contact: 7.5mN (Adjustable) Force: 10" Colour IPS Touch Screen
Display Part	PDF/WIFI Printing
Data Output	AC220V±10% Built In Rechargeable
Power Supply	Battery (AC Adaptor)

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