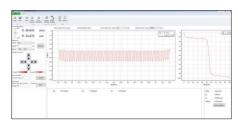
ROUGHNESS MEASURING MACHINE CODE SPM-4000



- Skidless probe
- Hundreds of parameters can be evaluated, such as roughness profile, waviness profile, primary profile, etc.
- Software is included, for measurement and data output

SPECIFICATION

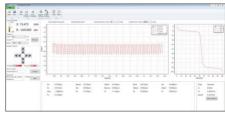
Roughness parameters	$Ra,Rp,Rv,Rz,Rz(JIS),R3z,Rz(DIN),Rzj,Rmax,Rc,Rt,\\Rq,Rsk,Rku,Rsm,Rs,R\Delta q,Rk,Rpk,Rvk,Mr1,Mr2,Rmr$	
Waviness parameters	Wa, Wt, Wp, Wv, Wz, Wq, Wsm, Wsk, Wku, Wmr	
Primary profile parameters	Pa, Pt, Pp, Pv, Pz, Pq, Psm, Psk, Pku, Pmr	
X axis measuring range	100mm	
X axis resolution	0.2µm	
X axis straightness	0.5µm/100mm	
X axis traverse speed	0.1~10mm/s	
Z axis measuring range	±420µm	
Z axis resolution	0.001µm	
Z axis linear accuracy	≤±(7nm+3.5%)	
Z axis traverse speed	0.5~10mm/s	
Z axis repeatability	1δ≤2nm	
Radius/angle of stylus	5μm/90°	
Cut off length	0.025/0.08/0.25/0.8/2.5/8mm	
Number of cut-offs	2~7	
Measuring unit	μm	
Drive mode	motor	
Travel of Z axis	320mm	
Dimension (LxWxH)	1200×700×1780mm	
Power supply	220±5%V, 50Hz	
Weight	320kg	



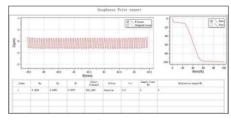
calibration



measurement



parameter measurement



data output

STANDARD DELIVERY

Main unit	1 pc
Roughness probe (with stylus)	1 pc each
Calibration block	1 pc
Working stage	1 pc
Vise	1 pc
Computer	1 pc
Software	1 set
Printer	1 pc
Installation tools	1 set

OPTIONAL ACCESSORY

Small roughness probe se	see details next page
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calibration block (included)

Unit: mm

SPECIFICATION OF ROUGHNESS PROBE

standard probe, code SPM-4000-P (included)

