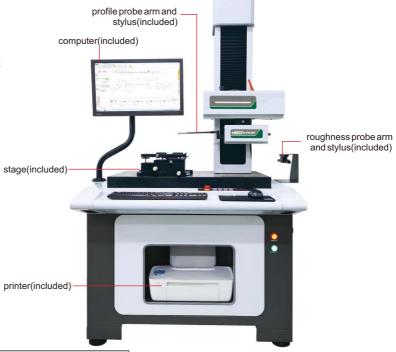
ROUGHNESS AND PROFILE MEASURING MACHINE CODE SPM-2000

- Software is included, for measurement and data output
- Profile sensor with low noise
- Wide range roughness sensor without skid



PROFILE MEASUREMENT SPECIFICATION

PROFILE MEASUREMENT SPECIFICATION		
X axis measuring range	140mm	
X axis resolution	0.2µm	
X axis traverse speed	0.05~15mm/s	
Z axis measuring range	50mm	
Z axis resolution	0.05µm	
Z axis traverse speed	0.2~15mm/s	
Straightness	0.5μm/100mm	
Linear accuracy	±(0.8+ 0.15H)µm, H is measuring height in mm	
Angular measuring accuracy	±1'	
Arc measuring accuracy	±(1.5+R/12)µm, R is 2~10mm standard ball	
Diameter of probe tip	25μm	
Measuring unit	μm/μin	
Measuring speed	0.05~1mm/s	
Traceable angle	72° (upward), 88° (downward)	
Travel of Z axis	430mm	
Power supply	220±5%V, 50Hz	
Dimension (L×W×H)	1400×850×1780mm	
Weight	350kg	



stage (included)



vise (included)

ROUGHNESS MEASUREMENT SPECIFICATION

Roughness parameters	Ra, Rp, Rv, Rz, Rz(JIS), R3z, Rz(DIN), Rzj, Rmax, Rc, Rt, Rq,Rsk, Rku, Rsm, Rs, $P\Delta q$, Rk, Rpk, Rvk, Mr1, Mr2,Rmr
Waviness parameters	Wa, Wt, Wp, Wv, Wz, Wq, Wsm, Wsk, Wku, Wmr
Original profile parameters	Pa, Pt, Pp, Pv, Pz, Pq, Psm, Psk, Pku, Pmr
Measuring range	±620µm
Resolution	262144:1
Linear accuracy	≤±(5nm+2.8%)
Probe radius/angle	5μm/90°
Cut off	0.025/0.08/0.25/0.8/2.5/8mm
Number of cut-offs	2~7
Measuring unit	μm/μin
Measuring speed	0.05~0.25mm/s

STANDARD DELIVERY

Main unit	1 pc
Calibration block	1 set
Roughness probe arm	1 pc
Roughness stylus	1 pc
Profile probe arm	1 pc
Profile chisel stylus	1 pc
Stage	1 set
Vise	1 set
Computer	1 pc
Software	1 set
Printer	1 pc
Installation tools	1 set

OPTIONAL ACCESSORY

Probe and arm	see details
---------------	-------------

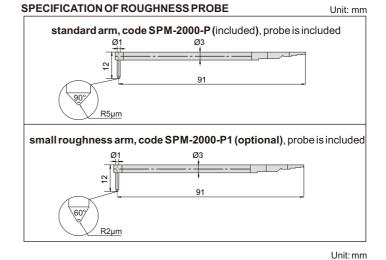
standard balls (included)



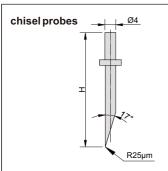
standard blocks (included)



standard shaft (included)

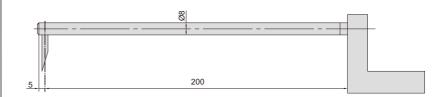


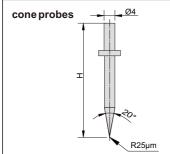
SPECIFICATION OF PROFILE PROBES AND ARMS



code **SPM-1000-T01** (H=32mm, included) code **SPM-1000-T02** (H=48mm, **optional**) code **SPM-1000-T03** (H=68mm, **optional**)

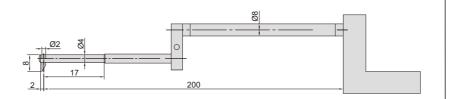
standard arm, code SPM-1000-SP (included), probe is not included



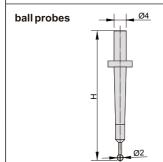


code **SPM-1000-Z01** (H=32mm, optional) code **SPM-1000-Z02** (H=48mm, optional) code **SPM-1000-Z03** (H=68mm, optional)

arm for small holes, code SPM-1000-SBP (optional), probe is included



measure the contour of holes with diameter>Ø8mm



code SPM-1000-R01 (H=32mm, optional) code SPM-1000-R02 (H=48mm, optional) code SPM-1000-R03 (H=68mm, optional)

transverse arm, code SPM-1000-LP (optional), probe is not included

