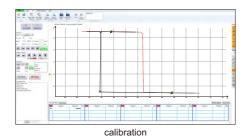
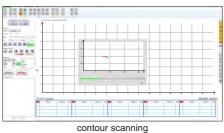
SURFACE PROFILE MEASURING MACHINE **CODE SPM-1000**

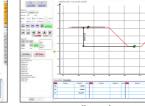
- Software is included, for surface profile measurement and data output
- Probe compensation
- Output as format txt, csv, etc.
- Large range design, the leverage ratio is 1:2.2, maintain the original accuracy of the sensor
 The overall structure of the Z-axis sensor does not
- have any elastic components, ensuring the measuring force is constant regardless the position of probe

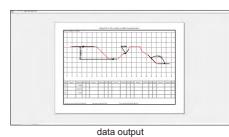








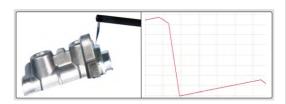




dimension measurement

SPECIFICATION

X axis measuring range	140mm	
X axis resolution	0.2μm	
X axis straightness	0.8μm/100mm	
X axis moving speed	0.1~10mm/s	
Z axis measuring range	±20mm	
Z axis resolution	0.05µm	
Z axis moving speed	0.5~10mm/s	
Linear accuracy	±(1.5+ 0.2H)µm, H is measuring height in mm	
Angular measuring accuracy	±2'	
Arc measuring accuracy	±(2+R/8)µm, R is 2~10mm standard ball	
Radius of probe tip	25μm	
Moving direction	backward	
Measuring force	6.86~9.8mN	
Measuring unit	mm/inch	
Traceable angle	72° (upward), 87° (downward)	
Drive mode	motor	
Travel of Z axis	430mm	
Dimension (L×W×H)	1200×700×1780mm	
Power supply	220±5%V, 50Hz	
Weight	320kg	







standard shaft (included)

To be continued



Continued from previous page

STANDARD DELIVERY

Main unit	1 pc
Standard probe and arm	1 pc of each
Standard block	2 pcs
Standard ball	2 pcs
Standard shaft	1 pc
Stage	1 pc
Vise	1 pc
Measuring arm	1 pc
Computer	1 pc
Measurement software	1 pc
Printer	1 pc
Installation tools	1 set





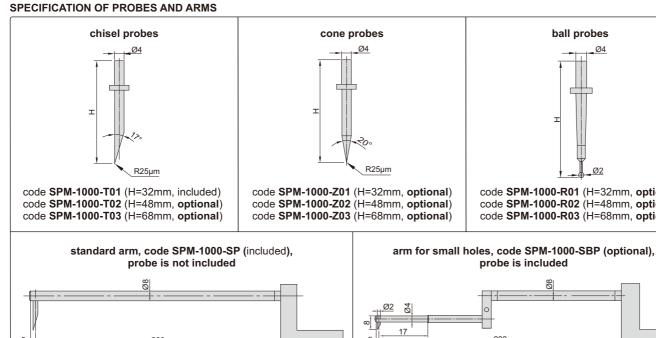
stage (included)

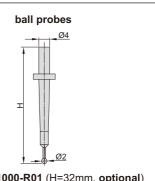
vise (included)

OPTIONAL ACCESSORY

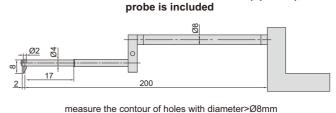
Probe and arm	refer to details

Unit: mm

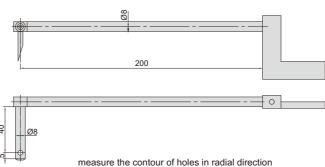




code SPM-1000-R01 (H=32mm, optional) code SPM-1000-R02 (H=48mm, optional) code SPM-1000-R03 (H=68mm, optional)



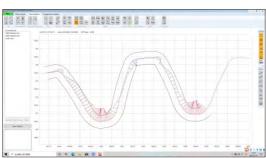
transverse arm, code SPM-1000-LP (optional), probe is not included





ATTENTION: SEPARATE PROBES FOR ROUGHNESS AND PROFILE MEASUREMENT

ROUGHNESS AND PROFILE MEASURING MACHINE CODE SPM-2000





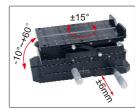
- Software is included, for measurement and data output
- Profile sensor with low noise
- Wide range roughness sensor without skid Meet ISO1997, ISO1984, BS1988, DIN1990, ASME1995, JIS1982, JIS1994 standards
- 65 roughness parameters



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
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

ROUGHNESS MEASUREMENT SPECIFICATION		
Roughness parameters	Ra, Rp, Rv, Rz, Rz (JIS), R3z, Rz (DIN), Rzj, Rmax, Rc, Rt, Rq, Rsk, Rku, Rsm, Rs , PΔq, 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	
Measuring range	±420µm	
Resolution	0.001µm	
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	



stage (included)



vise (included)



standard shaft (included)



standard blocks (included)



standard balls (included)

To be continued



Continued from previous page

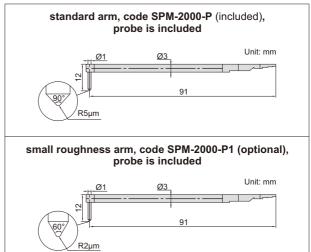
STANDARD DELIVERY

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

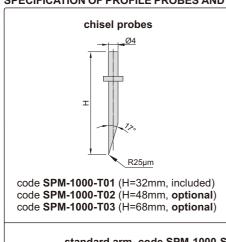
Probe and arm	refer to details

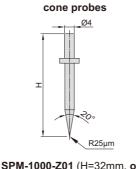
SPECIFICATION OF ROUGHNESS PROBE

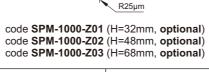


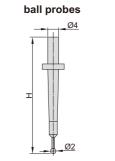
SPECIFICATION OF PROFILE PROBES AND ARMS

Unit: mm

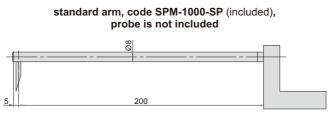


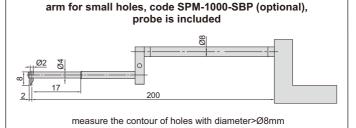






code SPM-1000-R01 (H=32mm, optional) code SPM-1000-R02 (H=48mm, optional) code SPM-1000-R03 (H=68mm, optional)





transverse arm, code SPM-1000-LP (optional), probe is not included $% \left(\frac{1}{2}\right) =\frac{1}{2}\left(\frac{1}{2}\right) \left(\frac$

