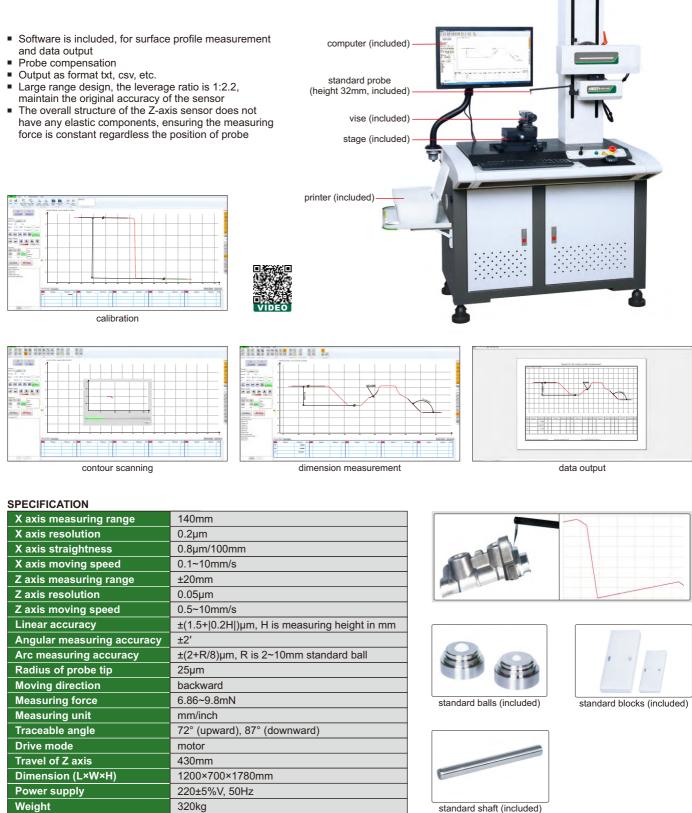
# SURFACE PROFILE MEASURING MACHINE CODE SPM-1000

-INSIZE-



standard shaft (included)

To be continued

15



## 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)

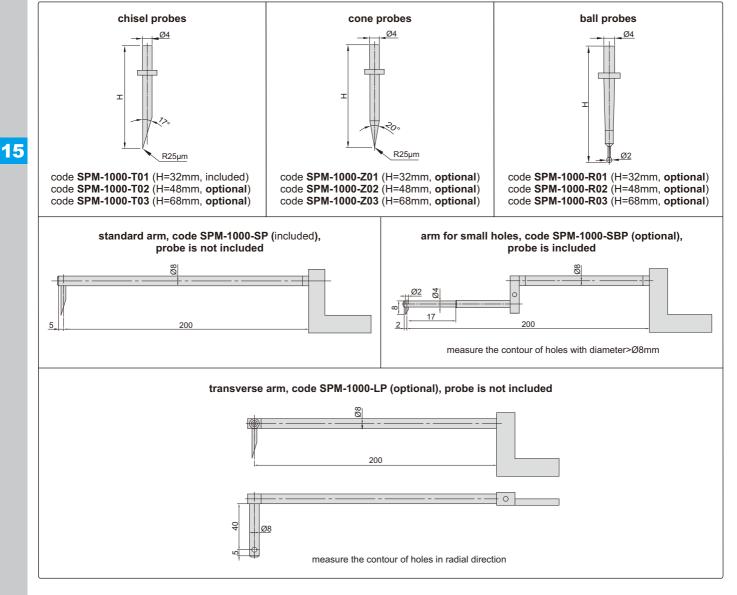
# OPTIONAL ACCESSORY

Probe and arm

Unit: mm

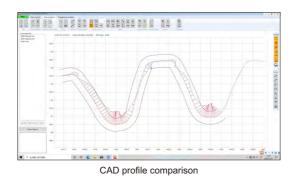
refer to details

## SPECIFICATION OF PROBES AND ARMS



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# **ROUGHNESS AND PROFILE MEASURING MACHINE** CODE SPM-2000





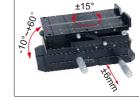
- Software is included, for measurement and data output
- Profile sensor with low noise

ATTENTION: SEPARATE PROBES FOR ROUGHNESS AND PROFILE MEASUREMENT

- Wide range roughness sensor without skid Meet ISO1997, ISO1984, BS1988, DIN1990, ASME1995, .
- JIS1982, JIS1994 standards
- 65 roughness parameters

## **PROFILE MEASUREMENT SPECIFICATION**

TROTTLE MEASUREMENT STECHTICATION		
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	



INSIZ

stage (included)

15



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∆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	
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	



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

refer to details

#### **OPTIONAL ACCESSORY**

Probe and arm

#### SPECIFICATION OF ROUGHNESS PROBE

