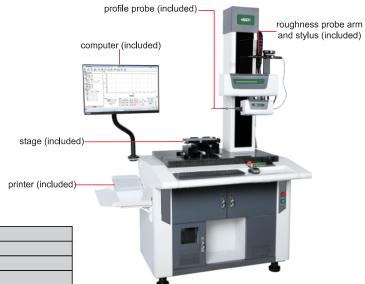


ROUGHNESS AND PROFILE MEASURING MACHINE (TWO PROBES TYPE) CODE SPM-2000

ATTENTION: PROFILE AND ROUGHNESS PROBES ARE USED SEPARATELY

- High precision grating sensor, large measuring range, strong stability
- Three point magnetic suction positioning module, switch measuring rod only need one second
- Wide range roughness sensor without skid
- Intelligent measurement analysis system, automatic programming measurement
- CAD profile comparison



PROFILE MEASUREMENT SPECIFICATION

X axis measuring range	150mm		
X axis resolution	0.1μm		
X axis traverse speed	(0.1~20)mm/s		
Z axis measuring range	40mm		
Z axis resolution	0.02µm		
Z axis traverse speed	(0.5~30)mm/s		
Straightness	0.5μm/100mm		
Linear accuracy	±(0.6+ 0.02H)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	(0.1~1)mm/s		
Traceable angle	72° (upward), 88° (downward)		
Travel of Z axis	420mm		
Power supply	220±5%V, 50Hz		
Dimension (L×W×H)	1329×930×1805mm		
Weight	350kg		

ROUGHNESS MEASUREMENT SPECIFICATION

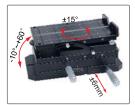
Roughness parmeters	Ra, Ramax, Ramin, Rasd, Rp, Rpmax, Rpmin, Rpsd, Rv, Rvmax, Rvmin, Rvsd, Rz, Rzmax, Rzmin, Rzsd, R3z, Rc, Rcmax, Rcmin, Rcsd, Rt, Rq, Rqmax, Rqmin, Rdsd, Rsk, Rskmax, Rskmin, Rsksd, Rku, Rkumax, Rkumin, Rkusd, Rsm, Rsmmax, Rsmmin, Rsmsd, Rs, RΔa, RΔamax, RΔamin, RΔasd, RΔq, RΔqmax, RΔqmin, RΔqsd, RK, Rpk, Rvk, Mr1, Mr2, Rλa, Rλamax, Rλamin, Rλasd, Rλq, Rλqmax, Rλqmin, Rλqsd, Rδc, Rpc, Rmr
Waviness parmeters	Wa, Wamax, Wamin, Wasd, Wsa, Wca, Wa08, Wc, Wcmax, Wcmin, Wcsd, Wt, Wz, Wzmax, Wzmin, Wzsd, Wp Wpmax, Wpmin, Wpsd, Wv, Wvmax, Wvmin, Wcsd, Wq, Wqmax, Wqmin, Wqsd, Wsm, Wsmmax, Wsmmin, Wsmsd, Wsk, Wskmax, Wskmin, Wsksd, Wku, Wkumax, Wkumin, Wkusd, WΔq, WΔqmax, WΔqmin, WΔqsd, Wδc, Wmr
Original profile parmeters	Pa, Pt, Pp, Pc, Pv, Pz, Pq, Psm, Psk, Pku, RzJ, Rpq, Rvq, Rmq, Pmr, PΔq, Avh, Hmax, Hmin, Area, Pδc, Tilta
Motif parmeters	Ncrx, R, Rx, AR, Nr, Cpm, Sr, Sar, W, Wx, Aw, Wte, Nw, Sw, Saw
Measuring range	±420µm
Resolution	0.0001µm
Linear accuracy	≤±(8nm+3.5%)
Probe radius/angle	5μm/90°
Cut off	0.025/0.08/0.25/0.8/2.5/8mm
Measuring unit	μm
Measuring speed	(0.1~1)mm/s

STANDARO DELIVERY

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

OPTIONAL ACCESSORY

automatic measurement



stage (included)



roughness standard block (included)



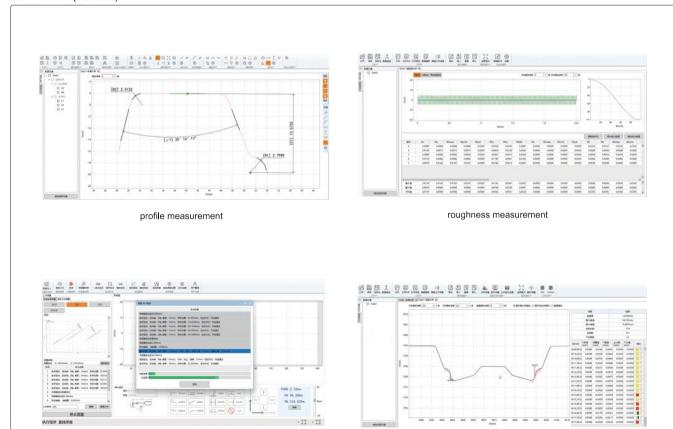
vise (included)



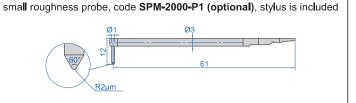
profile standard block (included)

CAD profile comparison

SOFTWARE (included)

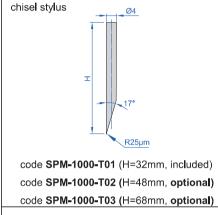


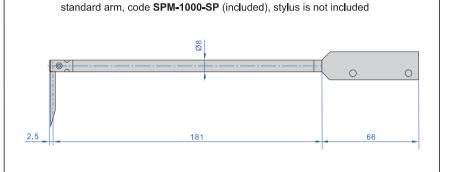
standard probe, code **SPM-2000-P** (included), stylus is included

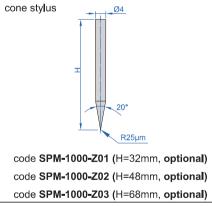


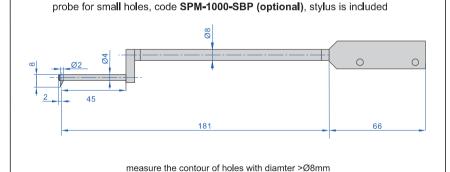
SPECIFICATION OF PROFILE PROBES

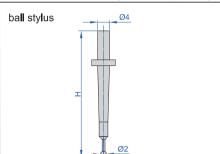
Unit: mm











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

code SPM-1000-R03 (H=68mm, optional)

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

