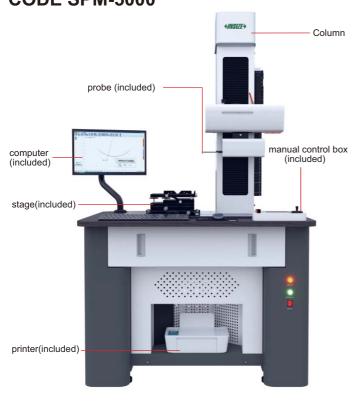
ROUGHNESS AND PROFILEMEASURING MACHINE (ONE PROBE TYPE) **CODE SPM-5000**



- Roughness, waviness, and profile analysis can be achieved with just one measurement
 Can measure all roughness and waviness parameters
- Can be used for automatic measurement system
- Air flotation and shockproof system to reduce measurement deviation
- Free to edit measurement reports

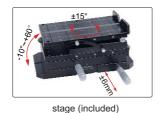
PROFILE MEASUREMENT SPECIFICATION

X axis measuring range	100mm
X axis resolution	0.2µm
X axis traverse speed	0.05~50mm/s
X axis linear accuracy	±(0.8+ 0.015L)µm, H is measuring length in mm
Z axis measuring range	±10mm
Z axis resolution	0.01µm
Z axis traverse speed	0.2~50mm/s
Z axis linear accuracy	±(0.5+ 0.08H)µm, H is measuring height in mm
Angular measuring accuracy	±1'
Arc measuring accuracy	±(1+R/12)µm, R is 2~10mm standard ball
Straightness	0.3µm/100mm,
Measuring unit	mm/inch
Travel of Z axis	320mm
Power supply	220±5%V,50Hz
Dimension (L×W×H)	1700×820×1900mm
Weight	500kg

ROUGHNESS MEASUREMENT SPECIFICATION

Roughness parameters	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, R Δ a, R Δ amax, R Δ amin, R Δ asd, R Δ q, R Δ qmax, R Δ qmin, R Δ qsd, Rk, Rpk, Rvk, Mr1, Mr2, R Δ q R Δ amax, R Δ amin, R Δ asd, R Δ q, R Δ qmax, R Δ qmin, R Δ asd, R Δ q, R Δ qmax, R Δ qmin, R Δ qsd, R Δ q, R Δ qmin, R Δ qsd, R Δ q, R Δ qmin, R Δ qsd, R Δ qqmin, R Δ qsd, R Δ qqmin, R
Waviness parameters	Wa, Wamax, Wamin, Wasd, Wsa, Wca, Wa08, Wc, Wcmax, Wcmin, Wcsd, Wt, Wz, Wzmax, Wzmin, Wzsd, Wp, Wpmax, 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 Wpsd, Wpmin,
Original profile parameters	Pa, Pt, Pp, Pc, Pv, Pz, Pq, Psm, Psk, Pku, RzJ, Rpq, Rvq, Rmq, Pmr, PΔq, Avh, Hmax, Hmin, Area, Pδc, Tilta
Motif parameters	Ncrx, R, Rx, AR, Nr, Cpm, Sr, Sar, W, Wx, Aw, Wte, Nw, Sw, Saw
Measuring range	±10mm
Resolution	0.01µm
Linear accuracy	≤±(4nm+2.5%)
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
Measuring speed	0.1~2mm/s











standard balls (included) standard blocks (included)

standard shaft (included)

STANDARD DELIVERY

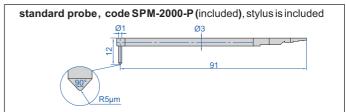
STANDARD DELIVERT		
Main unit (including workbench, controller, driver, sensor)	1 pc	
Calibration block	1 set	
Probe arm	1 pc	
Stylus	1 pc	
Air flotation and shockproof system	1 set	
Stage	1 set	
Vise	1 set	
Computer	1 pc	
Software	1 set	
Printer	1 pc	
Installation tools	1 set	

OPTIONAL ACCESSORY

Probe and arm see details

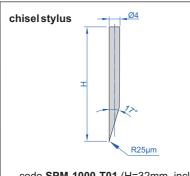
SPECIFICATION OF STANDARD PROBE

Unit:mm



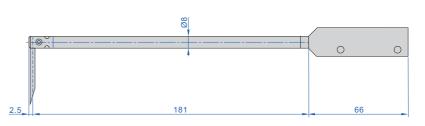
SPECIFICATION OF PROFILE PROBES

Unit: mm

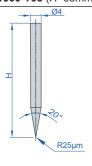


code **SPM-1000-T01** (H=32mm, included) code **SPM-1000-T02** (H=48mm, **optional**) code **SPM-1000-T03** (H=68mm, **optional**)

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

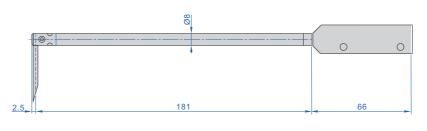


cone stylus



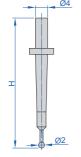
code **SPM-1000-Z01** (H=32mm, **optional**) code **SPM-1000-Z02** (H=48mm, **optional**) code **SPM-1000-Z03** (H=68mm, **optional**)

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



measure the contour of holes with diameter>Ø8mm

ball stylus



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 included

