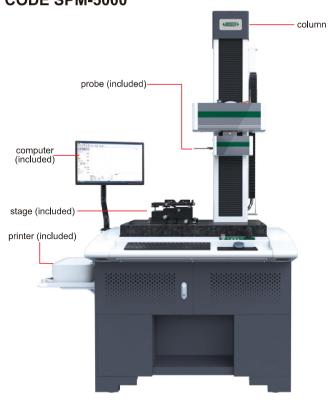


ROUGHNESS AND PROFILE MEASURING MACHINE (ONE PROBE TYPE) CODE SPM-5000

PROFILE AND ROUGHNESS MEASUREMENT AT THE SAME TIME



- Roughness, waviness, and profile analysis can be achieved

- 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	150mm
X axis resolution	0.0012µm
X axis traverse speed	(0.05~50)mm/s
X axis linear accuracy	±(0.8+ 0.015L)µm, L is measuring length in mm
Z axis measuring range	±10mm
Z axis resolution	0.0012µm
Z axis traverse speed	(0.2~40)mm/s
Z axis linear accuracy	±(0.5+ 0.02H)µm, H is measuring height in mm
Angular measuring accuracy	±1′
Arc measuring accuracy	±(1+R/12)µm, R is 2~10mm standard ba ll
Straightness	0.3µm/100mm
Measuring unit	mm/inch
Travel of Z axis	420mm
Power supply	220±10%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, 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 parameters	Wa, Wamax, Wamin, Wasd, Wsa, Wca, Wa08, Wc, Wcmax, Wcmin, Wcsd, Wt, Wz, Wzmax, Wzmin, Wzsd, Wp, Wpmax, Wpmin, Wpsd, Wv, Wvmax, Wvmin, Wvsd, Wq, Wqmax, Wqmin, Wqsd, Wsm, Wsmmax, Wsmmin, Wsmsd, Wsk, Wskmax, Wskmin, Wsksd, Wku, Wkumax, Wkumin, Wkusd, WΔq, WΔqmax, WΔqmin, WΔqsd, Wδc, Wmr
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	0.0012µm
Linear accuracy	≤±(6nm+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	(0.1~2)mm/s











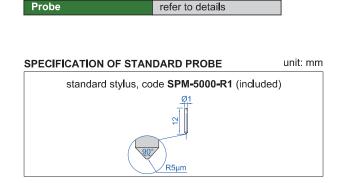
stage (included)

standard blocks (included)

STANDARD DELIVERY Main unit (including workbench, 1 pc controller, driver, sensor) 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

1 set

Installation tools



OPTIONAL ACCESSORY

