SERIES RP100XS PROFILE AND ROUGHNESS MEASURING MACHINE

- Can measure the surface profile and roughness with same probe at same time(for **RP100RS**)
- With high precision and good linearity digital probe(for **RP100RS and RP100TS**)
- Easy to install and replace without calibration
- Stylus can contact, lift and return automatically
- CAD file can be exported and imported(for **RP100RS and RP100JS**)



RP100RS



stage
(code: **RP100RS-STAGE**)



vice



profile calibration block
(for **RP100RS and RP100JS**)



roughness calibration block
(for **RP100RS and RTS**)



Ø3*24mm point stylus



Ø3*24mm knife stylus

SERIES RP100XS PROFILE AND ROUGHNESS MEASURING MACHINE

SPECIFICATION

Code		RP100RS	RP100TS	RP100JS
Measuring object		profile and roughness	roughness	profile
Roughness parameter		Ra, Rq, Rz(Ry), R3z, Rz(DIN), Rz(JIS), Rz(ISO),Rp, Rv, Rt, Rsk, Rsm, Rc, Rpm, Rku, Rdq, Roc, Mr1, Mr2, Rpk, Rvk, Rk, Rdc, A1, A2, R, Rx, AR, Rcp, Rmax		\
Wave parameter		wt, wa, wp, wv, wq, wc, wku, wsk, w, wx, wz, wsm, wdc, wte, wmr, Aw, c(wmr), wmr(c), wdq		\
Profile parameter		Pt, Pa, Pp, Pv, Pq, Pc, Pku, Psk, Pdq/p△q, Psm, Pdc, Pmr(c), Pz, pmr, C(pmr)		\
Profile	X axis range	100mm	\	100mm
	X axis straightness	0.8μm/100mm	\	0.8μm/100mm
	Z axis range	650mm	\	650mm
	Z1 axis range (probe)	40mm	\	40mm
	Accuracy	±(1+0.12H)um, H is measuring height in mm	\	±(1+0.12H)um, H is measuring height in mm
	Measuring arc accuracy	±(1.5+R/8)um, R is measuring radius in mm	\	±(1.5+R/8)um, R is measuring radius in mm
	Measuring angle accuracy	±2'	\	±2'
Roughness	Z1 axis range (probe)	40mm	20mm	\
	Accuracy	±5%		\
	Repeatability	±3%		\
	Resolution	0.0001um		\
	Number of cut-offs	3-7		\
	Cut off	0.025, 0.08, 0.25, 0.8, 2.5, 8mm		\
Climbing ability		77°(up), 88°(down)		
Measuring speed		0.02mm- 4.0mm/s		
Measuring mode		probe movement		
Movement control		joystick		
Power supply		220V		
Size		985x710x1450mm		

INCLUDED ACCESSORIES

Main unit	1pc	Ø3x24mm R5μm point stylus	1pc
Profile calibration block(for RP100RS and RP100JS)	1pc	Ø8x150mm measuring rod	1pc
Roughness calibration block(for RP100RS and RP100TS)	1pc	Computer	1pc
Stage (code: RP100RS-STAGE)	1pc	Printer	1pc
Vise	1pc	Anti-dust cover	1pc
Ø3x24mm R0.025mm knife stylus	2pcs	UPS	1pc

Measuring profile



Measuring roughness

