ROUGHNESS AND CONTOUR MEASURING MACHINE

- ◆ Can make double side measurement
- ◆ Can measure the surface profile and roughness with same probe at same time
- ◆ With high precision and good linearity digital probe
- ◆ Easy to install and replace without calibration
- ◆ Stylus can contact, lift and return automatically
- ◆ CAD file can be exported and imported
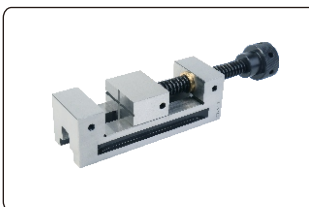- ◆ Multilingual version software: Chinese, English, Russian

stage
(code: **RP100RS-STAGE**)
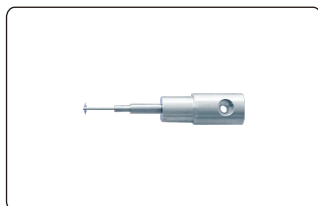
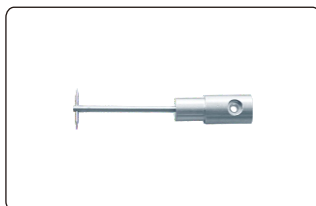
roughness calibration block

Ø35mm ring gauge

vice

profile calibration block

Φ0.6*4mm double side stylus

Φ1*15mm double side stylus

Φ3*24mm point stylus

Φ3*24mm knife stylus

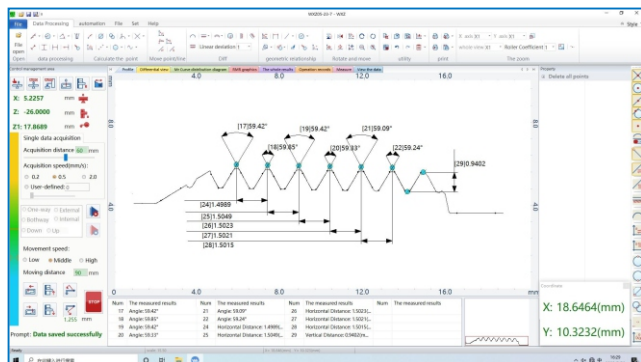## RP150RS — PROFILE AND ROUGHNESS MEASURING MACHINE

SPECIFICATION

Measuring object	profile and roughness
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	150mm
	X axis straightness	0.8μm/100mm
	Z axis range	450mm
	Z1 axis range (probe)	±20mm
	Accuracy	±(0.8+0.12H)um, H is measuring height in mm
	Measuring arc accuracy	±(1.5+R/8)um, R is measuring radius in mm
	Measuring angle accuracy	±2'
	Measuring tread range	M2-M100
	Measuring tread accuracy	≤±(4+0.04H)μm, column moving ≤±(4+0.02H)μm (inner thread≤100mm outer thread ≤30mm), column no moving
Roughness	Z1 axis range (probe)	±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-2.0mm/s
Measuring mode		probe movement
Movement control		joystick
Power supply		220V
Size		985x710x1450mm

INCLUDED ACCESSORIES

Main unit	1pc	Ø3x24mm R0.025mm knife stylus	2pcs
Profile calibration block	1pc	Ø3x24mm R5μm point stylus	1pc
Roughness calibration block	1pc	Ø8x150mm measuring rod	2pcs
Stage (code: RP100RS-STAGE)	1pc	Computer	1pc
Vise	1pc	Printer	1pc
Ø35mm ring gauge	1pc	Stylus adapter	2pcs
Ø0.6x4mm double side stylus	1pc	UPS	1pc
Ø1x15mm double side stylus	3pcs	Electronic balance	1pc

Measuring profile

Measuring roughness