

Technical Specifications Surftest SJ-401 / SJ-402

Measuring instrument		SJ 401	SJ 402
Measuring method		Free probing system and skid system	
Measuring range drive unit	X axis	25 mm	50 mm
Straightness	X axis	0,3 μm / 25 mm	0,5 μm / 50 mm
Measuring range detector	Z axis	800 μm 80 μm 8 μm	
Measuring system	Z axis	Differential inductive	
Measuring force		0,75 mN	
Skid radius		40 mm	
Skid bearing strength		< 400 mN	
Standard stylus		Angle 60°, Radius 2 μm	
Measuring speed		0,05 to 1,0 mm/s	
Drive speed		0,5 to 2,0 mm/s	
Inclination adjustment		$\pm 1,5^\circ$	
Drive unit parallel shift		10 mm	
Evaluation			
Surface measurement		Roughness profile Waviness profile Primary profile	
Parameters		Ra, Rq, Rz, Rz(JIS), Ry, Ry(DIN), Rc, Rpi, Rp, Rpmax, Rv, Rvmax, Rti, Rt, R3zi, R3z, R3y, S, Pc (Ppi), Sm, HSC, mr, $\bar{a}c$, plateau ratio, mrd, Rk, Rpk, Mr1, Mr2, Aa, $\bar{A}q$, $\bar{e}a$, $\bar{e}q$, Sk, Ku, Lo, Lr, A1, A2 R-motiv, W-motiv	
Analysis graphic		BAC, amplitude distribution curve	
Cut-off length		0,08mm / 0,25mm / 0,8mm / 2,5mm / 8 mm	
Number of sampling lengths		1x, 3x, 5x, XL (XL=arbitrary)	
Filter		2CR, PC75 (phase corrected), Gauss	
SJ Tools		Standard accessory for display, documentation and archiving of results	
Functions			
Parameter display		Customized	
Auto-calibration function		Via menu	
Ruler function		graphic, coordinate difference between tow points	
Inclination adjustment		Via menu	
Tolerance judgement		Upper and lower limit values	
Measurment conditions		5 sets can be saved	
Thermal printer		built-in	
Data transfer		RS 232C, SPC output	
Granite stand		option	