

## Technical Specifications Surftest SJ-500 / SV-2100

Measuring instrument		SJ 500	SV 2100 M4	SV 2100 S4	SV 2100 H4	SV 2100 W4
Measuring range	X axis	50 mm	100 mm			
Measuring range / Resolution	Z axis	800 µm / 0,01 µm 80 µm / 0,001 µm 8 µm / 0,0001 µm				
Straightness	X axis	0,2 µm / 50 mm	0,15 µm / 100 mm			
Measuring system	X axis	Ceramic / Linear scale				
	Z axis	Inductive				
	Z2 axis			ABS scale		
Standard stylus	angle 60°, radius 2µm					
Measuring speed	0,1 mm/s to 2,0 mm/s					
Drive speed	X axis	up to 20mm/s	up to 40 mm/s			
	Z2 axis	-	up to 20 mm/s			
Measuring force	0,75 mN					
Control / Operation	7,5"-color-TFT-Display touch-sensitive					
<b>Stand</b>		Option manual	Standard manual	Standard motor-driven		
Base	Granite					
Column drive range			300 mm	350 mm	550 mm	
Dimensions ( B x T )	[mm]		600 x 450	600 x 450	600 x 450	1000 x 450
Mass main unit			140 Kg	140 Kg	150 Kg	220 Kg

Control unit	For reference plane system Surftest SJ500 and SV 2100
<b>Display</b>	7,5" color TFT display touch-sensitive
<b>Printer</b>	Integrated high-speed thermal printer
<b>Joystick</b>	For driving motorized axes
<b>Functions</b>	
<b>Analysis of</b>	Roughness profile Corrugation profile Primary Profile Evaluation of geometrical characteristics
<b>Parameters</b>	Ra, Rc, Ry Rz, Rq, Rt, Rmax, Rp, Rv, R3z, Sm, S, Pc, mr(c), äc, mr, tp, Htp, Lo, Lr, Ppi, HSC, Äa, Äq, Ku, Sk, Rpk, Rvk, Rk, Mr1, Mr2, A1, A2, Vo, ëa, ëq, R, AR, Rx, W, AW, Wx, Wte
Analysis graphic	BAC, Amplitude allocation
Cut-off-Length	0,08mm / 0,25mm / 0,8mm / 2,5mm / 8 mm
Number of single measuring lengths	1x, 3x, 5x, XL ( XL=selectable)

## Mitutoyo: Specificationen Surftest semi-automatic

Filter	2CR, PC75 ( phase corrected), Gauss
Evaluation of geometrical characteristics	Coordinate difference of two points, calculation of areas, calculation of angles, calculation of radius, distance
Display of parameters	Customized
Calibration function	via menu
Angle adjustment	via menu
Tolerance benchmark	Upper and lower limits
Measuring conditions	10 sets saveable