

## Technical Specifications Surftest SV-3100

Measuring instrument		SV 3100 S4	SV 3100 H4	SV 3100 W4	SV 3100 S8	SV 3100 H8	SV 3100 W8
Measuring range	X axis	100 mm			200 mm		
Measuring range / Resolution	Z axis	800 $\mu\text{m}$ / 0,01 $\mu\text{m}$ 80 $\mu\text{m}$ / 0,001 $\mu\text{m}$ 8 $\mu\text{m}$ / 0,0001 $\mu\text{m}$			800 $\mu\text{m}$ / 0,01 $\mu\text{m}$ 80 $\mu\text{m}$ / 0,001 $\mu\text{m}$ 8 $\mu\text{m}$ / 0,0001 $\mu\text{m}$		
Straightness	X axis	0,15 $\mu\text{m}$ / 100 mm			0,5 $\mu\text{m}$ / 200 mm		
Measuring system	X axis	Linear scale			Linear scale		
	Z axis	Inductive			Inductive		
	Z2 axis	ABS scale			ABS scale		
Standard stylus	angle 60°, radius 2 $\mu\text{m}$			angle 60°, radius 2 $\mu\text{m}$			
Measuring speed	0,02 mm/s to 5,0 mm/s			0,02 mm/s to 5,0 mm/s			
Drive speed	X axis	up to 80 mm/s			up to 80 mm/s		
	Z2 axis	up to 20 mm/s			up to 20 mm/s		
Measuring force	0,75 mN			0,75 mN			
Skid	Radius 40mm			Radius 40mm			
Data transfer	USB			USB			
Control/Operation	Software Surfpak						
<b>Stand</b>	Standard motor-driven			Standard motor-driven			
Base	Granite			Granite			
Angle adjustment (option)	$\pm 45^\circ$			$\pm 45^\circ$			
Column drive range	300 mm	500 mm		300 mm	500 mm		
Dimensions ( B x T )	[mm]	600 x 450	600 x 450	1000 x 450	600 x 450	600 x 450	1000 x 450
Mass controller	14 Kg			14 Kg			
Mass main unit	140 Kg	150 Kg	220 Kg	145 Kg	150 Kg	220 Kg	