



SURFCOM 1500DX3/SD3



SURFCOM 1500DX3



SURFCOM 1500SD3

*Printer is optional.

High-Performance Compact Pickup

A new compact built-in pickup allows high-magnification, wide area measuring. The measuring range is 1000 μ m with an outside diameter of 14 mm, and a measuring magnification of 500,000 times.

New Linear Motor Drive (Patent Pending)

The new linear motor enables the fastest measurement speeds in the world and low vibration for stable, high-magnification measurement. A simple configuration (no feed screw or gear box) and non-contact driver also maintains stability over long term operation.

High-speed Measurement for Dramatically Improved Productivity

Roughness Measurement: 3mm/s max.; Waviness Measurement: 20mm/s max.; Moving Speed: 60mm/s max. Measurement Efficiency: 10 times better (compared with previous models)

Specifications

Model		SURFCOM 1500DX3/SD3								
		-12	-13	-14	-15	-22	-23	-24	-25	
Measuring Range	Z-axis (vertical)	1000 μ m								
	X-axis (horizontal)	100mm				200mm				
Accuracy	Detectors	0.01 μ m/1000 μ m range ~0.0001 μ m/6.4 μ m range								
	X-axis	Resolution								
	Tracing driver	Scale Resolution								
Straightness accuracy		(0.05+1.0L/1000) μ m (L: Measuring length mm)								
Sensing method		Z-axis (vertical direction): differential transducer; X-axis (horizontal direction): linear scale								
Speed	Column up/down speed (Z-axis)	3~10mm/s								
	Speed (X-axis)	Measuring: 0.03~20mm/s, Movement: 60mm/s max.								
Detectors	Stylus, Measuring Force	Changeable, 0.75mN								
	Stylus radius (Stylus material)	2 μ mR(60°conical diamond), one equipped as standard								
Moving range	Pickup movement drive distance	100mm				200mm				
	Column up/down stroke	250mm	450mm	650mm	250mm	450mm	650mm			
Stone table dimensions and weight	Dimensions	600x320mm		1000x450mm		600x320mm		1000x450mm		
	Max. load★	38kg	29kg	94kg	85kg	32kg	23kg	88kg	79kg	
Dimensions and weight※★	Installation dimensions	Width	1250mm		1650mm		1250mm		1650mm	
		Depth	800mm		900mm		800mm		900mm	
		Height	1480mm	1680mm	1880mm	1480mm	1680mm	1880mm		
	Weight	225kg	235kg	420kg	430kg	230kg	240kg	425kg	435kg	
Power source/power consumption		Single phase AC100~240V \pm 10% grounding required., 50/60Hz/670VA								

★ Dimensions and weight are for the DX type.