



CONTOURECORD 1700DX3/SD3



Achieving the high accuracy contour detector. Surpassing the digital counterpart, the analog detector achieves the accuracy of higher level. For the space-saving design of the DX3 model, the measurement room can be utilized efficiently.



CONTOURECORD 1700DX3

CONTOURECORD 1700SD3

*Printer is optional.

Easy Evaluation of General-Purpose Part Contours

Contours of parts that normally have been evaluated on a projector of tool microscope now can be obtained quickly and easily. Measured results can be incorporated into inspection reports.

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

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

Specifications

Model		CONTOURECORD 1700DX3/SD3								
		-12	-13	-14	-15	-22	-23	-24	-25	
Measuring Range	Z-axis (vertical)	50mm				200mm				
	X-axis (horizontal)	100mm				200mm				
Accuracy	Detectors	$\pm(1.8 + 2H / 100) \mu\text{m}$ (H: Measuring Height mm)								
	Resolution	0.1 μm /5mm range, 0.4 μm /20mm range, 1 μm /50mm range								
	X-axis	$\pm(1.0 + 1L/100) \mu\text{m}$ (L: Measuring length mm) / Min 0.1 μm								
	Tracing driver	Scale Resolution 0.016 μm								
Straightness accuracy		1 μm /100mm				2 μm /200mm				
Sensing method	X-axis (horizontal)	Linear scale								
	Z-axis (vertical)	Differential transducer (trans)								
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, 30mN, Retract function								
	Stylus radius (Stylus material)	25 μm (24° conical super-solder), two equipped as standard								
	Measuring Direction, Orientation	Pull/push and Up/down directions, Maximum following angle: 77°								
Moving range	Pickup movement drive distance	100mm				200mm				
	Column up/down stroke	244mm	444mm	644mm	244mm	444mm	644mm			
Stone table dimensions and weight	Dimensions	600x320mm		1000x450mm		600x320mm		1000x450mm		
	Max. load★	37kg	28kg	93kg	84kg	31kg	22kg	87kg	78kg	
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.