



CONTOURECORD 2700DX3/SD3



Equipped with high accuracy contour detector.
Introducing the laser beam diffraction scale that achieves the resolution of 0.025 μ m.
For the space-saving design of the DX3 model, the measurement room can be utilized efficiently.

CONTOURECORD 2700DX3

CONTOURECORD 2700SD3

*Printer is optional.

High-accuracy Contour Detector Using Laser Optical Diffraction Scale

Indication accuracy of detectors : $\pm(0.8+|2H|/100)\mu\text{m}$, Resolution : 0.025 μm (the entire range). The system can measure and evaluate the contour of a precision manufacturing component at high accuracy.

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 2700DX3/SD3								
		-12	-13	-14	-15	-22	-23	-24	-25	
Measuring Range	Z-axis (vertical)	50mm								
	X-axis (horizontal)	100mm				200mm				
Accuracy	Detectors	$\pm(0.8+ 2H /100)\mu\text{m}$ (H: Measuring Height mm)								
	Resolution	0.025 μm /Full 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)	Laser optical diffraction 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, 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	226mm	426mm	626mm	226mm	426mm	626mm	626mm		
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.