



# CONTOURECORD 1600G

## Enhanced Operation



※ Printer is optional

### Auto Element Judgment (AI Function)

The 1600D automatically determines the type of element (point line circle).

### Dimension Display Function

The actual measured values for parameters and geometric deviation can be displayed on the diagram.

### Profile Synthesis Function

The limitations on the analysis range due to the angle of the stylus are addressed with the synthesis function.

### Peak and Valley Function

This function enables the maximum workpiece point to be detected by tracing with the stylus, simplifying alignment.

### Calculation Point Repeat Function

Overall workpiece analysis can be executed after completing only one pattern analysis for workpieces where certain shapes are repeated.

### Workpiece Trace Function

The measuring range can be determined by tracing the workpiece once. This is effective for measurement of minute profiles.

### Easy Evaluation of Part Contour

Exact data on parts that were previously evaluated with a projector or tool microscope can be obtained in a short period of time. The measured results can be used as is for inspection reports.

### High Efficiency Measurement

The teaching/playback function automates the entire process, from measurement to pasting of the data into an inspection report.

Model		CONTOURECORD 1600G									
		-11	-12	-13	-14	-21	-22	-23	-24		
Measuring Range	Z-axis (vertical)	50mm									
	X-axis (horizontal)	100mm				200mm					
Accuracy	Detectors	Z-axis indication accuracy (vertical)	±0.25% (Full scale)								
		Measuring Resolution	0.1μm/5mm range, 0.4μm/20mm range, 1μm/50mm range								
	Tracing driver	X-axis indication accuracy (horizontal)	±(1+2L/100)μm								
		Measuring Resolution	0.1μm								
Straightness accuracy		1μm/100mm				2μm/200mm					
Sensing method	X-axis (horizontal)	Moiré striped scale				Linear scale					
	Detectors	Differential transducer									
Speed	Column up/down speed (Z-axis)	—	10mm/s (3mm/s) <sup>*1</sup>			—	10mm/s (3mm/s) <sup>*1</sup>				
	Speed (X-axis)	Measuring : 0.03, 0.06, 0.15, 0.3, 0.6, 1.5, 3, 6mm/s 8 speeds									
Detectors	Stylus, Measuring Force	Changeable, 10~30mN, Retract function									
	Stylus radius (Stylus material)	25μmR(24° conical Tungsten Carbide), two equipped as standard									
	Measuring Direction, Orientation	Pull/push and Up/down directions									
Moving range	Pickup movement drive distance	100mm				200mm					
	Measuring height	250mm		450mm		250mm		450mm			
Stone table dimensions and weight	Dimensions	600X317mm			1000X450mm		600X317mm		1000X450mm		
	Max. load <sup>*2</sup>	41kg	35kg	26kg	41kg	35kg	29kg	20kg	35kg		
Dimensions and weight	Installation dimensions ★	Width	2000mm			2300mm		2000mm		2300mm	
		Depth	1000mm				1000mm				
		Height	1700mm		1900mm		1700mm		1900mm		
	Weight	120kg	125kg	135kg	240kg	125kg	130kg	140kg	245kg		
	Power source/power consumption	Single phase AC100~240V±10% grounding required, 50/60Hz / 710VA									

※ 1: J/S Operation

※ 2: Desktop Anti-vibration table(E-VS-S57B) is used with -11,-12,-13,-21,-22,-23. Anti-vibration table(E-VS-R16B) is used with -14,-24.

★ Optional ordinary stand, anti-vibration table, and computer rack included in dimensions.

Contact us about the high-accuracy C1600GH series.