



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) ^{*1}			—	10mm/s (3mm/s) ^{*1}				
	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 ^{*2}	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.