

Technical Specifications Contracer CV-3100

Measuring instrument		CV 3100 S4	CV 3100 H4	CV 3100 W4	CV 3100 S8	CV 3100 H8	CV 3100 W8
Measuring range	X axis	100 mm			200 mm		
	Z1 axis	50 mm			50 mm		
Linear displacement accuracy	X axis	(1+ 0,01L) μm			(1+ 0,02L) μm		
	Z1 axis	(2,0+ 4H /100) μm			(2,0+ 4H /100) μm		
Traverse linearity	X axis	0,8 μm / 100 mm			2 μm / 200 mm		
Resolution	X axis	0,05 μm			0,05 μm		
	Z1 axis	0,2 μm			0,2 μm		
	Z2 axis	1 μm			1 μm		
Measuring method	X axis	Linear scale			Linear scale		
	Z1 axis	Linear scale			Linear scale		
	Z2 axis	ABS scale			ABS scale		
Standard stylus	Carbide, tip radius 25 μm , tip angle 12°				Carbid tip radius 25 μm , tip angle 12°		
Measuring speed	0,02 mm/s bis 5,0 mm/s				0,02 mm/s bis 5,0 mm/s		
Drive speed	X axis	up to 80 mm/s			up to 80 mm/s		
	Z2 axis	up to 20 mm/s			up to 20 mm/s		
Measuring force	10 to 30 mN				10 to 30 mN		
Data transfer	USB				USB		
Stand							
Base	Granit				Granit		
Inclination of drive unit	$\pm 45^\circ$				$\pm 45^\circ$		
Column moving range	Z2 axis	300 mm	500 mm		300 mm	500 mm	
Dimensions Base (B x T)	[mm]	600 x 450	600 x 450	1000 x 450	600 x 450	600 x 450	1000 x 450
Mass Controller	14 Kg				14 Kg		
Mass main unit		140 Kg	150 Kg	220 Kg	140 Kg	150 Kg	220 Kg