

Technical Specifications Contracer CV 3000 CNC / CV 4000 CNC

Measuring instrument	CV 3000 S8 CNC	CV 3000 H8 CNC	CV 4000 S8 CNC	CV 4000 H8 CNC
X1 axis				
Measuring range	200 mm		200 mm	
Resolution	0,05 µm		0,05 µm	
Measuring method	Reflection-type linear encoder			
Drive speed in CNC mode	up to 200 mm/s			
Drive speed in manual mode (Joystick-Box)	0 to 60 mm/s			
Measuring speed	0,02 mm/s to 2,0 mm/s			
Measuring direction	pulling and pushing			
Traverse linearity	2 µm/200 mm			
Linear displacement accuracy	(1+4L/200) µm			
Z1 axis				
Measuring range	50 mm		50 mm	
Resolution	0,2 µm		0,05 µm	
Measuring method	Reflection-type linear encoder		Laser HoloScale	
Linear displacement accuracy	(3,0+ 2H /25) µm		(0,8+ 0,5H /25) µm	
Measuring force	30 mN			
Standard stylus	Carbide, tip radius 25µm, tip angel 30°			
Z2 axis (column)				
Measuring range	300 mm	500 mm	300 mm	500 mm
Resolution	0,05 µm			
Measuring method	Reflection-type linear encoder			
Drive speed in CNC mode	up to 200 mm/s			
Drive speed in manual mode (Joystick-Box)	0 to 60 mm/s			
Main unit				
Granit base size (B x T)	750mm x 600mm			
Dimensions (B x T x H)	800 x 620 x 1000	800 x 620 x 1200	800 x 620 x 1000	800 x 620 x 1200
Mass	240 Kg	250 Kg	240 Kg	250 Kg
Controller				
Data transfer	USB			
Dimensions (B x T x H)	250 x 427 x 467			
Mass	28 Kg			
Joystick Box				
Dimensions (B x T x H)	300 x 143 x 71			
Mass	1,5 Kg			
á axis				
Angle adjustment	option +45°, -10°			

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Drive speed	1 upm
Resolution of angle adjustment	0,000225°
Y axis	option
Measuring range	200 mm
Resolution	0,05 µm
Measuring method	Reflection-type linear encoder
Drive speed in CNC mode	to 200 mm/s
Drive speed in manual mode (Joystick-Box)	0 to 60 mm/s
Max. load	20 Kg
Traverse linearity	0,5 µm / 200 mm
Linear displacement accuracy	$\pm (2+2L/100)\mu\text{m}$
Measuring stage size	200 mm x 200 mm
Mass	35 Kg

Products of this series come equipped with a safety system for the detection of potential function-impairing vibration to the measuring system. Activation of the security system leads to a time-delayed system shut-off. Uninterrupted functioning of the measuring device may be secured with a timely release of the security system by Mitutoyo service personnel.