

Built-in unit 322

Technical data sheet

- Marking unit for marking processes: scribe, stylus, dot marking and DataMatrix coding (ECC200)
- Marking area 100 x 100 mm or 100 x 50 mm (X/Y)
- Dimensionally stable base body made out of aluminium cast
- Ball bearing spindles and carriage with circular ball track in both marking axes
- Compact, easy to maintain design
- Drive is provided by powerful stepping motors
- Big diversity in marking heads and marking tools



Application area

The 322 model is a highly robust device designed for 3-shift operation. All components of this coordinate unit have been developed for regular use and are continuously tested to ensure a constant quality. Together with a marking head and a controller, this marker is integrated as an built-in unit in our special system or by system producers for direct workpiece marking e.g. in transfer lines, production machines or gauging and testing stations. The marking head is directly mounted underneath the coordinate unit.

Options

- Heavy duty design for high forces double slides and strong motors makes it possible to use stronger scribe heads for deep marking or scribe heads of longer design.
- Marking mechanics on side of the marking head are covered with bellow for dust cover or plate covering.
- Shifting of reference point
- Different marking areas due to module design
- Probing of Dot/DataMatrix marking heads
- Further options and special designs on request

Technical Data

Property	Measure, Unit, Explanation	CO*	AO*
• Dimensions of marking unit with marking area (X, Y) of 100 x 100 mm (W x D x H)	325,5 x 255 x 173 mm (without marking head)	X	
• Dimensions of marking unit with marking area (X, Y) of 100 x 50 mm (W x D x H)	325,5 x 205 x 173 mm (without marking head)	X	
• Dimensions of marking unit with marking area (X, Y) of 40 x 50 mm (W x D x H)	266,5 x 205 x 173 mm (without marking head)		X
• Dimensions of marking unit with marking area (X, Y) of 150 x 100 mm (B x D x H)	393,5 x 255 x 163 mm (without marking head)		X
• Weight of the marking unit	ca. 10 kg		
• Marking speed (depending on character size and shape, marking process and motorisation)	up to 10 characters/ second (see marking times spreadsheet)		
• Fast motion speed	up to 0.5 m/sec		
• Character height	from 0.5 mm (enhancing in 0.1 mm steps)		
• Documentation	German, English or French more languages	X	X
• Penetration depth marking tip (depending on marking head, marking process and material)	ca. 0.01 – 0.5 mm (see data sheet marking heads)		
• Noise level with scribe markers	max. 75 dB(A) (depending on workpiece)		
• Position of reference point	see drawing	X	
• Supply and control lines	see drawing	X	
• Supply and control lines	outgoing on the right side		X
• PN-supply (regulator and sensor)	on-site mounting	X	
• PN-supply (regulator and sensor)	on separate aluminium plate		X
• Pneumatic components	Festo and Bosch	X	
• Colour of bonnet	RAL 7035, grey	X	
• Heavy duty design for high forces double: slides and strong motors	necessary from marking head R20M		X
• Drive	stepping motors	X	
• Fold bellow	on request		X
• Cover plate/ chippings protection	on request		X
Media supply			
• Power supply with connecting cable	230 V AC ± 10 %, 50/60 Hz or 115 V AC ± 10 %, 50/60 Hz		
• Pneumatic connection (input pressure) technically conditioned compressed air	Min. 5 bar (min. 75 psi) dried, oil-free, filtered with 50 μ m		

*) CO = construction option, will be defined by placing of order – no additional charge; AO = additional option, can be ordered additionally – additional charge

Technical details are subject to change.