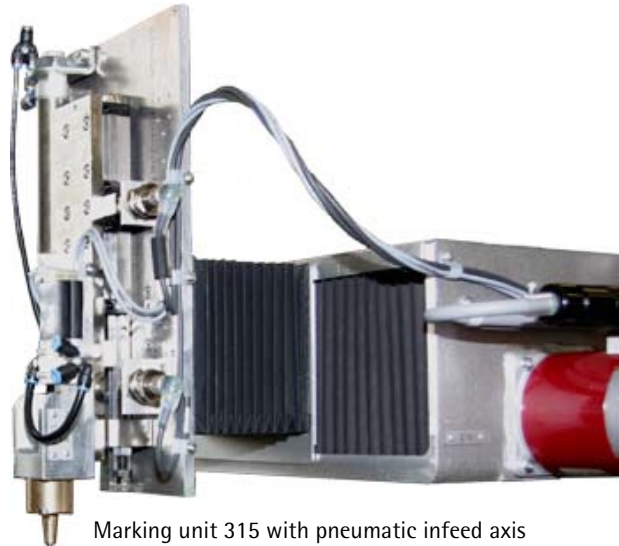


Marking unit 315

Technical data sheet

- Marking unit for marking processes: scribe, stylus, dot marking and DataMatrix coding (ECC200)
- Standard marking area 150 x 100 mm (X/Y)
- The coordination unit is integrated in a stable housing made out of aluminium and therefore well protected against environmental effects.
- The motors are directly connected with the ball bearing spindles via zero backlash clutches.
- Double linear guidance of both marking axes for the acceptance of bigger lateral forces
- Drive is provided by powerful stepping motors.
- Marking tool installed on pneumatic infeed axis (adjustable from 0 to 50 mm or from 80 to 125 mm)



Marking unit 315 with pneumatic infeed axis

Application area

The marking unit 315 is a very well protected and 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. The set of a marking head and a controller is integrated as a built-in unit by system producers for direct workpiece marking e.g. in transfer lines, production machines or gauging and testing stations. The pneumatic (PN) or stepping motor (SM) axis allows to forward the marking unit to the workpiece even at places which are difficult to access.

Options

- Big variety of versions of the marking heads and tools
- Regulated servo-motors
- Shifting of reference point
- Marking area 150 x 150 mm (X/Y)
- Bigger marking area will be realised with other designs.
- Extended design of pneumatic infeed axis (adjustable from 80 to 125 mm)
- Marking tool on stepping motor infeed axis (stroke length up to 125 mm adjustable) – also with workpiece probing
- Stylus check system (stylus breakage control for on-site mounting/ drive)
- Further options and special design on request

Technical Data

Property	Measure, Unit, Explanation	CO*	AO*
• Dimensions of marking unit with standard marking area (X, Y) of 150 x 100 mm + Z-axis	see drawing	X	
• Dimensions of marking unit with optional marking area (X, Y) of 150 x 150 mm + Z-axis	see drawing		X
• Weight	ca. 37 kg		
• Marking speed (depending on character height and shape, marking process and motorisation)	up to 10 characters/ second (see marking times spread-sheet)		
• Character height	from 1 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	< 75 dB(A) (depending on workpiece)		
• PN infeed axis	from 35 to 50 mm stroke (adjustable)	X	
• PN infeed axis	from 80 to 125 mm stroke (adjustable)		X
• PN infeed axis	special stroke on request		X
• SM infeed axis	up to 125 mm stroke (adjustable)		X
	with workpiece probing		X
• Position of reference point X/Y	see drawing	X	
• Supply and control lines	see drawing	X	
• PN-supply (regulator and sensor)	on separate aluminium plate	X	
• Pneumatic components	Festo and Bosch	X	
• Motor break depending on mounting position for X- or Y-axis	dimension on request		X
Media supply			
• Power supply with connecting cable	230 V AC \pm 10 %, 50/60 Hz or 115 V AC \pm 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.

