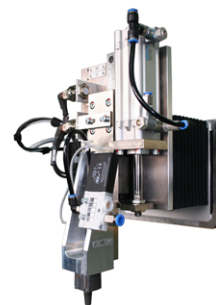


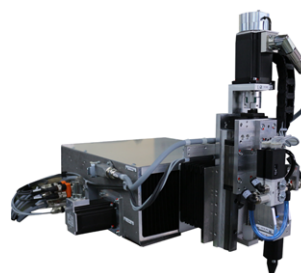
## Marking unit 315

### Technical data sheet

- Standard marking area 150 x 100 mm (X/Y)
- Special size on request
- Marking unit for marking processes: scribe, stylus, dot marking and DataMatrix coding (ECC200)
- The coordination unit is integrated in a stable housing made out of aluminum 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 adjustment unit (adjustable from 0 to 5 mm or from 80 to 125 mm)



Marking unit 315 with pneumatic adjustment unit



Marking unit 315 with electric adjustment unit



### 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 motors (SM) adjustment unit allows to forward the marking unit to the workpiece even at places which are difficult to access.





## Options

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

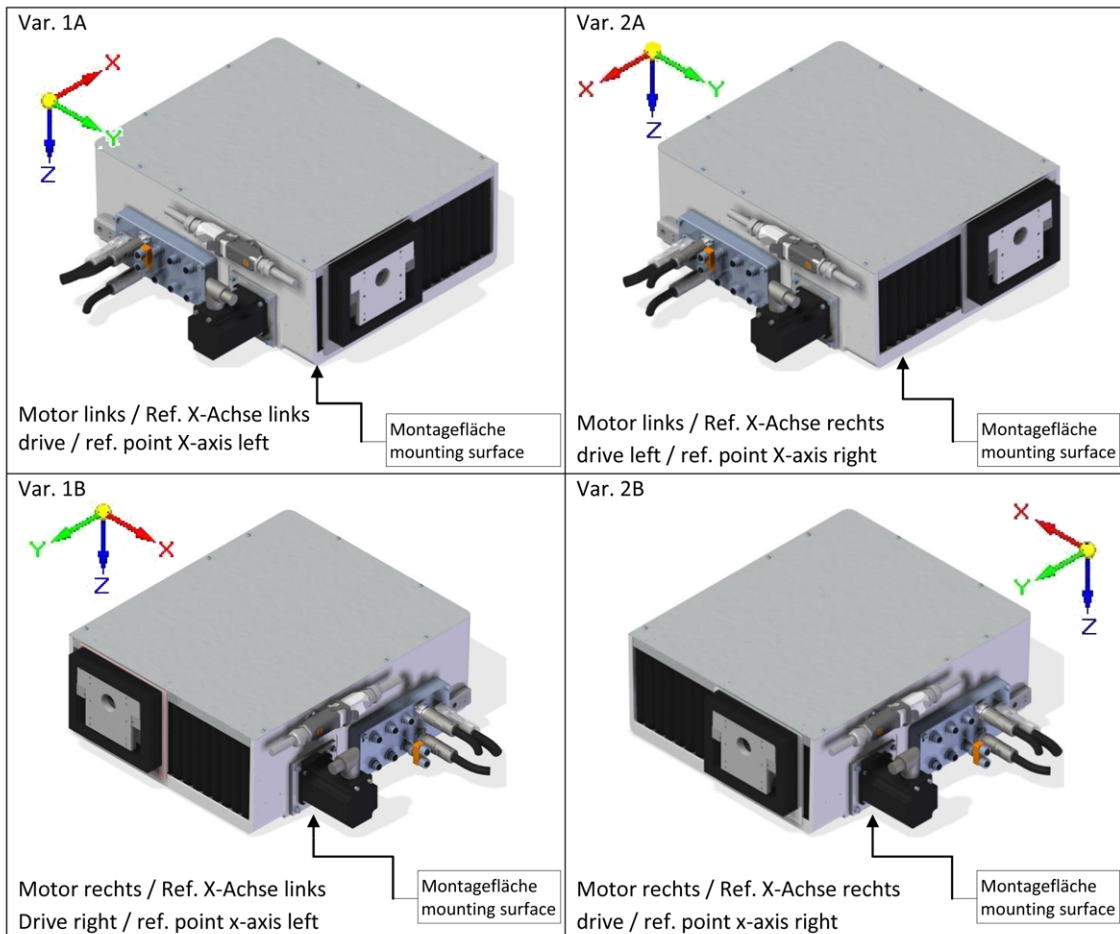


## Marking unit 315 with mounting option z-axis

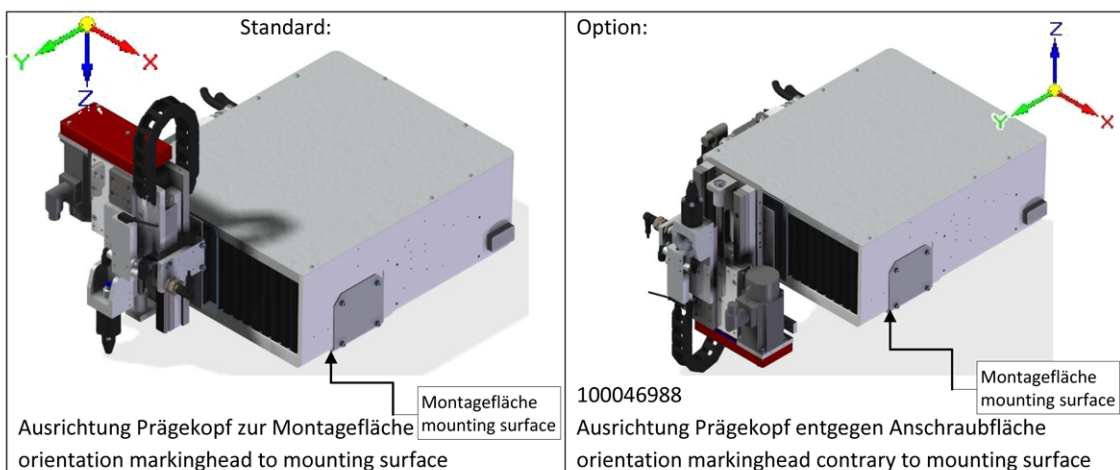
### Varianten 315 mit Anbauoptionen Z-Achse

version 315 with mounting option z-axis

#### Varianten 315 (Basiseinheit) / version 315



#### Montagemöglichkeiten Z-Achse / mounting options z-axis



## Technical data

Property	Measure, Unit, Explanation
Dimension of marking unit with standard marking area (X,Y) of 150 x 100 mm + adjustment unit	See drawing
Dimensions of marking unit with optional marking area (X,Y) 150 x 150 mm + adjustment unit	See drawing
Weight	approx. 37 kg
Marking speed (depending on character height and shape, marking process and motorization)	Up to 10 characters / second (see data sheet marking times)
Character height	from 1 mm (enhancing in 0,1 mm steps)
Documentation	German or English Other languages optional
Penetration depth marking tip (depending on marking head, marking process and material)	approx. 0,01 – 0,5 mm
Noise level with scribe markers	< 75dB(A) (depending on workpiece)
Different adjustment units:	
• Pneumatic	From 35 to 50 mm stroke (adjustable) optional From 80 to 125 mm stroke (adjustable) optional Special stroke on request
• Stepper motor	Up to 125 mm stroke (adjustable) optional With workpiece touching optional
Position of reference point X/Y	See drawing
Supply and control lines	See drawing
PN supply (regulator and sensor)	On separate aluminum plate
PN components	Festo
Motor break depending on mounting position for X- or Y-axis	Dimension on request

## Power supply

Power supply with connecting cable	230 V AC $\pm$ 10 %, 50/60 Hz or 115 V AC $\pm$ 10 %, 50/60 Hz switchable
Pneumatic connection (supply pressure) technically provided compressed air	At least 5 bar dried, oil-free, filtered with 50 $\mu$ m
Working pressure (marking pressure)	at least 2 bar up to max. 4 bar

Technical details are subject to change.

