







-  Conventional marking technology
-  Scribe, stylus and dot-peening marking technology
-  Type-wheel marking technology
-  Laser-marking technology
-  Traceability
-  Special-purpose machines

Marking unit 315

Technical data sheet

- Standard marking area sizes 150 x 100 mm and 150 x 150 mm (X/Y)
- Special size on request
- Marking unit for the marking process scribing, stylus, dot-peening marking, Vibropeening and DataMatrix codings (ECC200)
- The coordinate unit is installed in a stable aluminium housing and is therefore well protected from external influences.
- The motors are connected directly to the ballscrews via zero-backlash couplings.
- Double guidance of the two writing axes for the absorption of large lateral forces
- Drive via powerful stepper motors
- Marking tool on pneumatic Z axis (adjustable either from 35–50 mm or from 80–125 mm) or on motorised Z axis stroke 125 mm (with and without brake)
- Large variety of marking heads and marking tools (e.g. double marking head: the marking process and the marking pressure can be set individually for each marking head)



The 315 marking unit with Pneumatic Z-axis



The 315 marking unit with motorised Z-axis









BMC controller (BORRIES marking-controller)

- Universal 2-/3-axis marking controller in compact housing
- With integrated full-graphic 10" touch display
- Dimensions: 355 x 225 x 236 mm
- Included in the scope of delivery









Application area

The 315 marking unit is a very well protected and robust device designed for use in 3-shift operation. All components of these coordinate units have been developed for continuous use and are constantly checked for consistent quality. Together with the marking head and a controller, this marker unit is integrated as a built-in system by plant manufacturers for direct marking of the workpieces in transfer lines, processing machines, measuring and test stations, etc. The pneumatic (PN) or stepper motor (SM) axis enables feeding to the component even at difficult-to-access marking points.

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Options

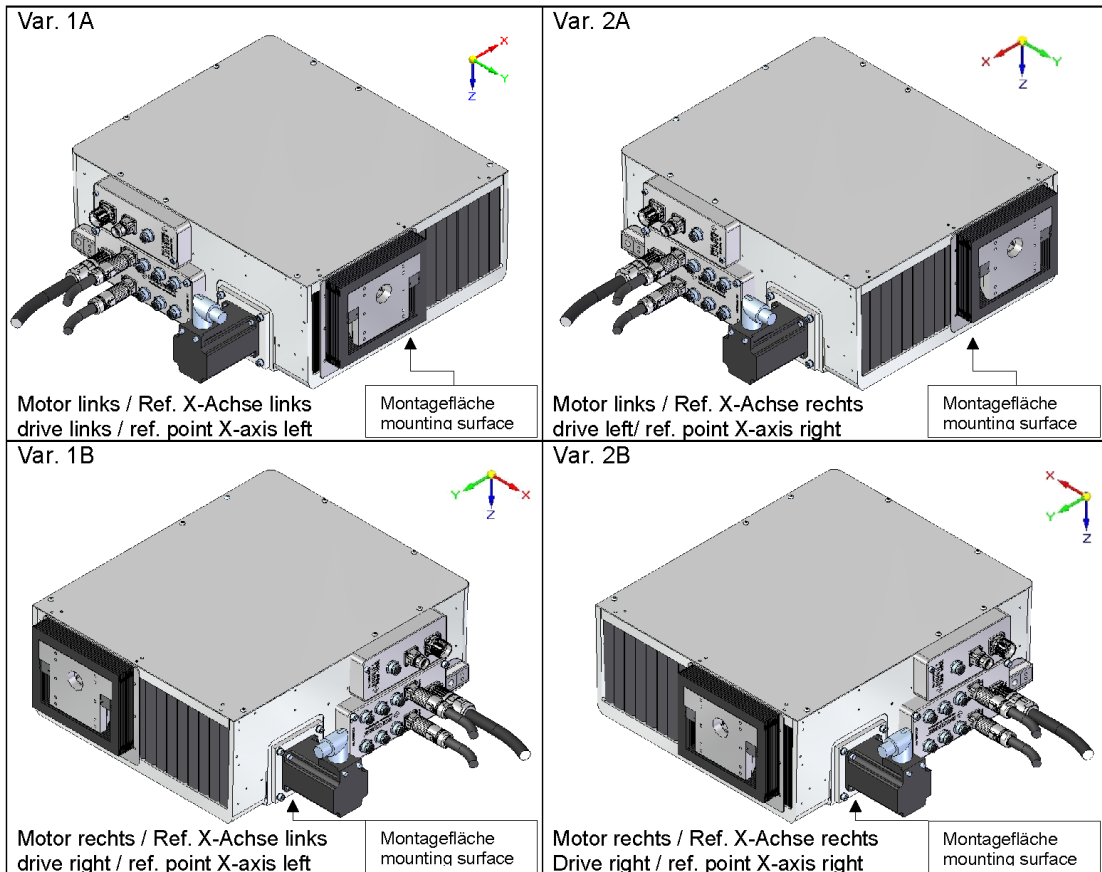
- Larger marking areas are realised with other designs
- Workpiece touch-on (only in combination with a stepping motor axis)
- Tip query (stylus breakage control for on-site attachment/control)
- Reliable standstill monitoring
- Brake for X, Y or Z axis
- DMC camera
- Relocation of the reference point

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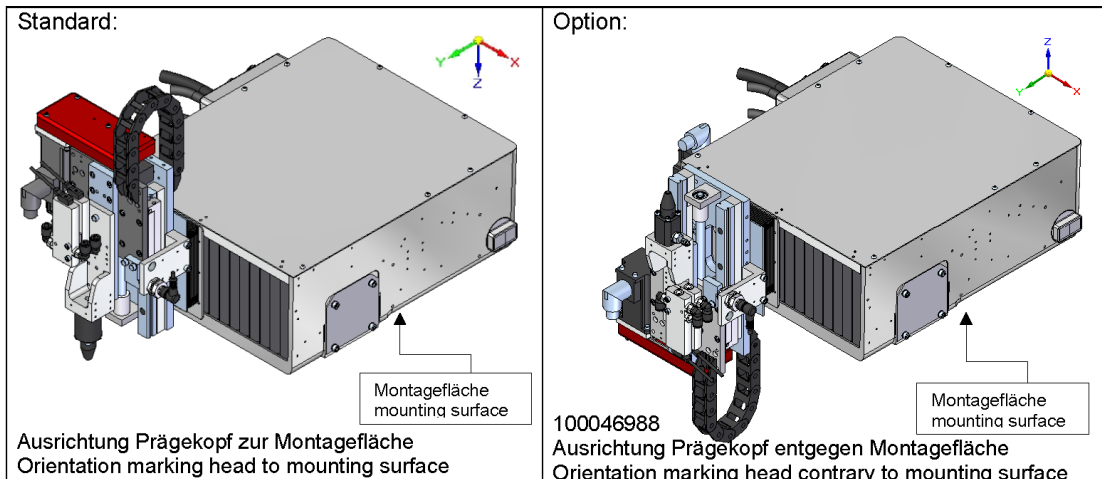
Varianten 315 mit Anbauoptionen Z-Achse







Version 315 with mounting option z-axis

Varianten 315 (Basiseinheit) / version 315



Montagemöglichkeiten Z-Achse / mounting options z-axis



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Technical data

Property	Dimensions, unit, explanation
Dimensions of the marking unit with standard marking area size (X,Y) of 150 x 100 mm + Z-axis	Approx. 500 x 576 x 445 mm
Dimensions of the marking unit with optional marking area size (X,Y) of 150 x 150 mm + Z-axis	Approx. 500 x 576 x 455 mm
Weight	Approx. 37 kg
Marking speed (depending on character height and font format, marking process and motorisation)	Up to 10 characters/second (see marking times table)
Character height	from 0.5 mm (in 0.1 mm steps)
Documentation	German or English, other languages opt.
Marking tip penetration depth (depending on the material to be marked, marking head and marking process)	Approx. 0.01–0.5 mm (see marking head data sheet)
Noise level during scribe marking	Max. 75 dB(A) (depending on the component)
Different Z-axes are available:	
• Pneumatic	From 35 to 50 mm stroke (adjustable) (opt.) From 80 to 125 mm stroke (adjustable) (opt.)
• Stepper motor	Special stroke on request Up to 125 mm stroke (parametrisable)(opt.) With optional workpiece touch-on
Supply and control lines	depending on variant
PN supply system (regulator and monitor)	On separate aluminium plate
Media supply	
Power supply via BMC with connection cable	Wide-range power supply integrated in the controller
Compressed air connection (supply pressure) With technically conditioned compressed air	Min. 5 bar (min. 75 psi) Dried, oil-free, filtered with 50 µm
Working pressure (marking pressure)	Min. 2 bar up to max. 4 bar (30 psi to max. 60 psi)

Subject to technical changes.