

## Handheld marking unit 312V

### Technical data sheet



- Marking area 51 x 51 mm (X/Y)
- Diversity in marking technologies: stylus and dot marking
- DataMatrix coding (ECC200)
- Compact and solid portable marking unit for flexible workpiece marking
- Robust ball bearing spindles and carriage with circular ball track in both axes
- Drive with powerful stepping motors
- Control (marking controller): EK2-Box with membrane keypad and display, protection class IP 53



### Application area

This easily transportable handheld unit for dot marking, stylus and DataMatrix coding is best suited for many areas in industrial and handcraft applications where readable markings on materials like steel and aluminium are required. Due to its good ergonomical features and its easy way of operating the device it is eminently suited for usage in workshops, in quality control and in stock management. The marking unit 312V is a portable marking device and is operated manually. Even with larger font sizes markings of single or multi lines are possible. This marking unit is available with table and column as a stationary workshop unit.

The model 312V is setting new standards with a weight of only 5.5 kg. Measuring rather small it still offers a large marking area of 51 x 51 mm. With the help of quick changing optional workpiece support it is possible to adapt to almost all workpiece geometries.

With the compact marking controller there are numerous options of data input via PC, barcode-scanner, SPS or the integrated membrane keyboard. Here, simple compilation and selection of the marking tasks is taking place as well. Font heights and font widths are freely scalable.

### Options

- Table and column with mechanic quick-change unit and fine adjustment (Z-position)
- Depending on application: Positive stop (vacuum) and adapter for round workpieces
- Dirt cover at the bottom of the marking unit





## Technical data

Property	Measure, Unit, Explanation
Dimensions handheld marking unit (W x D x H)	360 x 160 x 270 mm (without marking head)
Marking area (X, Y)	51 x 51 mm
Weight of the handheld marking unit (without Controller)	approx. 5.5 kg
Marking speed (depending on character height and shape, marking process and motorisation)	up to 6 characters/ second
Character height	from 1 mm (enhancing in 0.1 mm steps)
Documentation	German, English or French other languages are optional
Penetration depth marking tip (depending on material, marking head and marking process)	approx. 0.01 – 0.5 mm (see data sheet marking heads)
Font	DIN 1451, 7 x 5 dot marking, stylus DataMatrix code Other fonts are optional
Special signs, logos	according to specification
Marking direction	straight line, angle or circular arc
<b>Power supply</b>	
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.





Portable marking unit 312V  
 optional with table and column



Positive stop for flat workpieces



Adapter for round workpieces are optional





