







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

## Built-in unit 312V

### Technical data sheet

- Marking area 51 x 51 mm (X/Y)
- Different marking processes: Scribe, stylus, dot-peening and Vibropeening
- DataMatrix coding (ECC200)
- Compact and solid built-in unit as component marking
- Robust ballscrews and carriages with revolving ball guides in both axes
- Drive with powerful stepper motors



#### EK2 box control (marking controller):

- Universal 2-axis marking controller in compact housing
- With integrated membrane keyboard and 4-line display
- Protection class IP 53
- Dimensions: 220 x 144 x 82 mm (L x W x H)
- Included in the scope of delivery









#### Application area

The 312V built-in unit is integrated in compact production lines. It is ideal for marking plain text in dot-peening and DataMatrix coding on steel and aluminium. Simple scribing tasks are also possible. The marking unit is delivered as standard with the LDM Makro software. Default settings for this are printer and layout mode. The PC software programs VisuWin SE and VisuWin PRO are also available as an option.

#### Options

- Pneumatic adjustment unit (50 mm, 80 mm or 100 mm stroke)
- Electrical adjustment unit (125 mm stroke, only in combination with the EG2 box)
- Component probing via stylus tip (only in combination with the electrical adjustment unit)
- Covering of the underside of the marker with a dirt cover
- Version 312L: X-axis extended by 14 mm

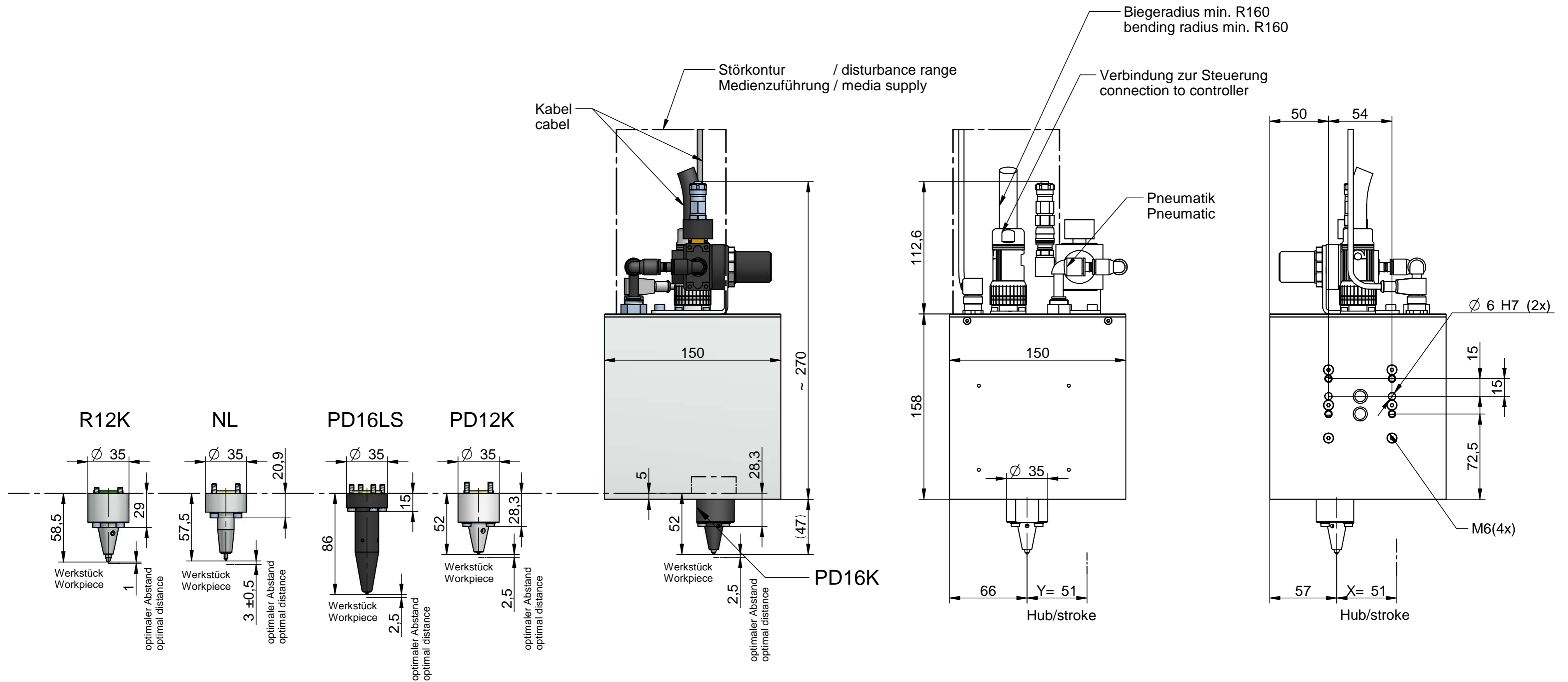
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## Technical data

Properties	Dimensions, unit, explanation
Dimensions of built-in unit (W x D x H)	150 x 150 x 270 mm (without marking head)
Marking area size (X, Y)	51 x 51 mm
Weight of built-in unit (without controller)	Approx. 4 kg
Marking speed (depending on text size and form, marking process and motorisation)	Up to 6 characters/second
Character height	from 1 mm (in 0.1 mm steps)
Installation position	Freely selectable
Documentation	German, English or French Other languages optional
Marking tip penetration depth (depending on the material to be marked, marking head and process)	Approx. 0.01 – 0.5 mm (see marking head data sheet)
Font	DIN 1451, 7 x 5 dot-peening, scribe marking, stylus marking, Vibropeening, DataMatrix code, other fonts optional
Special characters, logos	Optional according to the template
Writing direction	Straight, angled or circular
<b>Media supply</b>	
Voltage supply via power supply unit with connection cable	230 V AC $\pm$ 10 %, 50/60 Hz or 120 V AC $\pm$ 10 %, 50/60 Hz, switchable
Compressed air connection (supply pressure) with technically conditioned compressed air	Min. 5 bar (min. 75 psi) Dried, oil-free, filtered with 50 $\mu$ m
Working pressure (marking pressure)	Min. 2 bar up to max. 4 bar (30 psi to max. 60 psi)

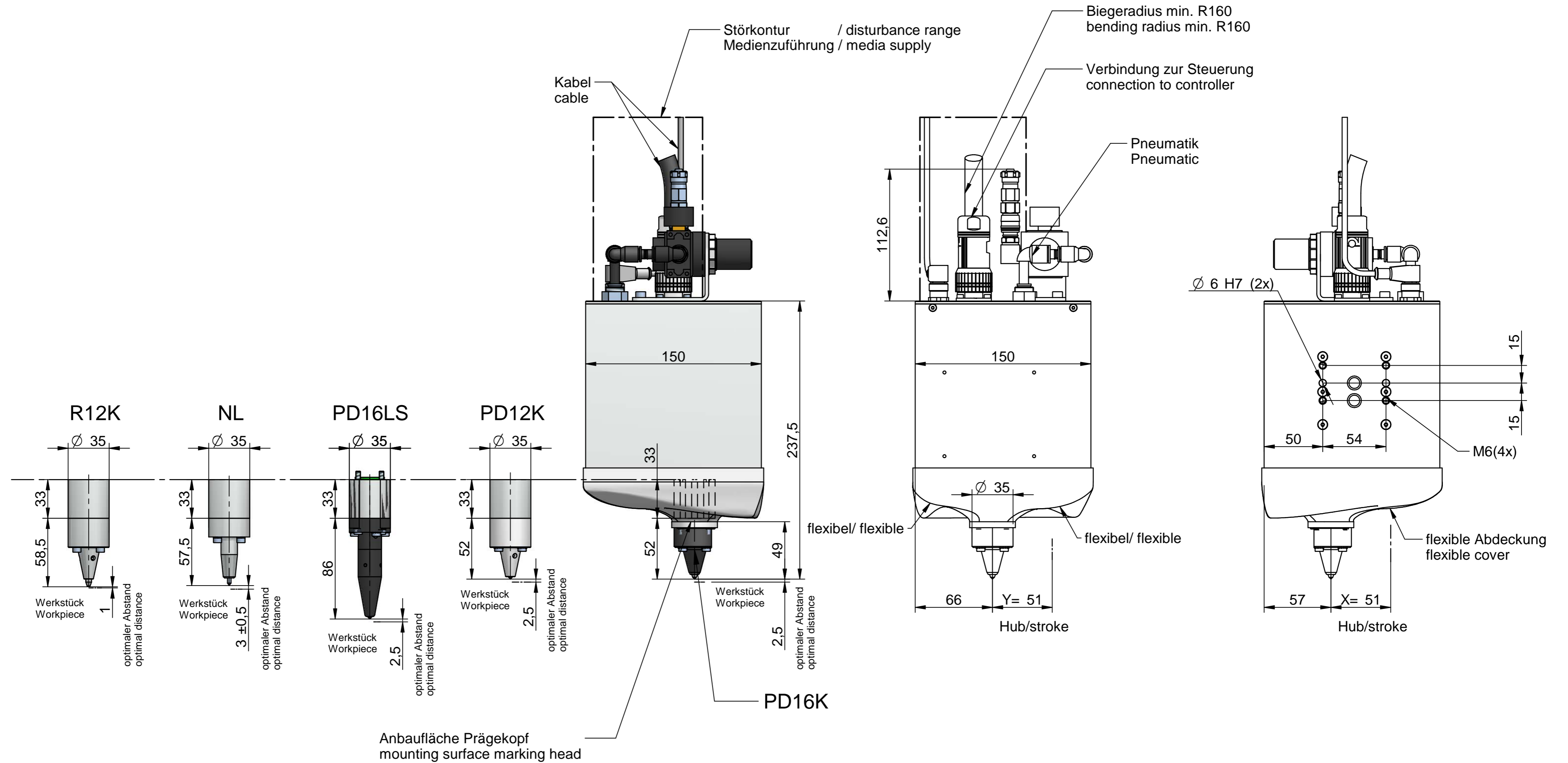
Subject to technical changes.

312A Basiseinheit + Prägeköpfe  
 312A base unit + marking head



Maßangaben/dimensions in mm,  
 Technische Änderung vorbehalten  
 technical modifications reserved

312A Basiseinheit + Schmutzabdeckung + Prägeköpfe  
 312A base unit + dirt cover + marking head



Maßangaben/dimensions in mm,  
 Technische Änderung vorbehalten  
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