







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

## Built-in unit 313

### Technical data sheet

- Marking area 120 x 20 mm (X/Y)
- Different marking processes: Scribe, stylus, dot-peening and Vibropeening
- DataMatrix coding (EC200)
- Compact and solid marking unit as incorporation component for flexible 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 313 built-in unit is integrated in compact production lines. It is suitable for marking plain text and DataMatrix codings in steel or aluminium. Simple scribing tasks are also possible.

The model is supplied with the LDM Makro software as standard. 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

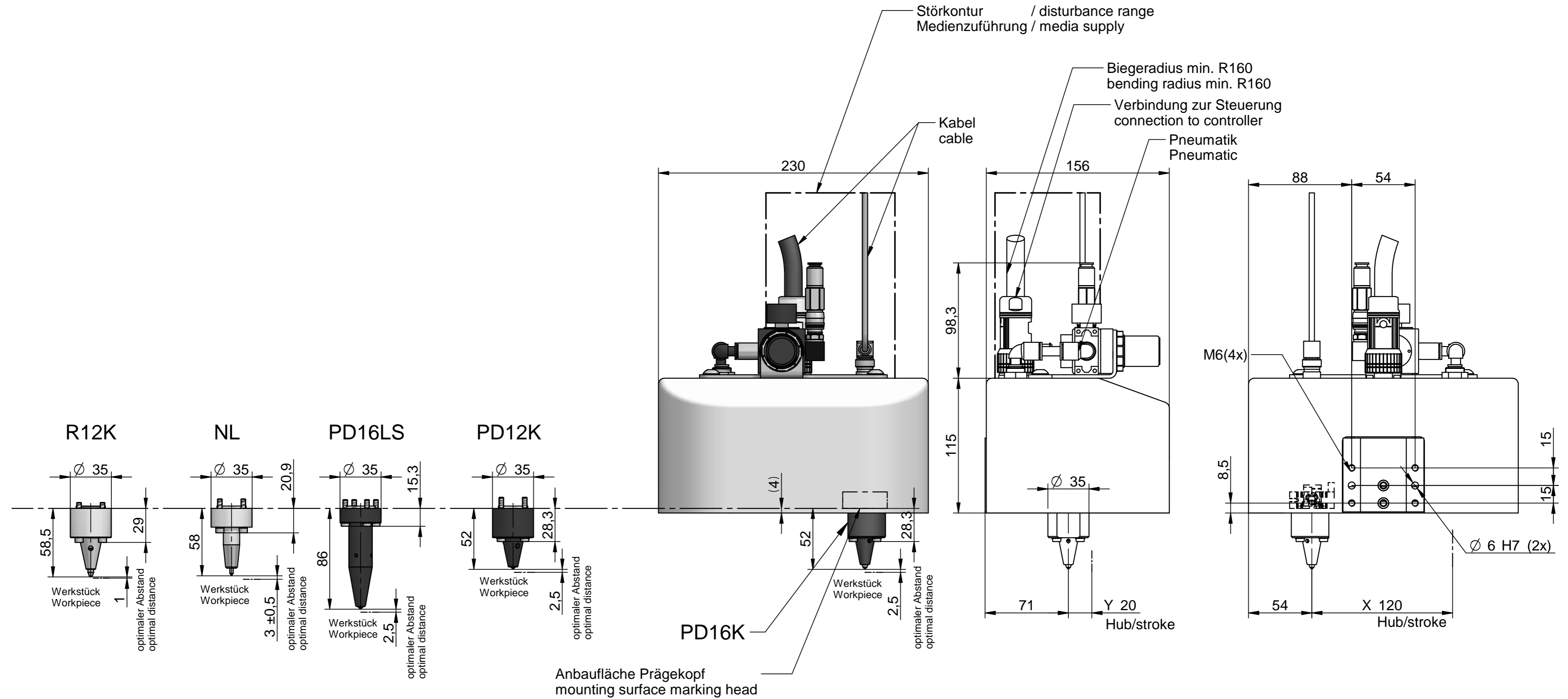
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## Technical data

Properties	Dimensions, unit, explanation
Dimensions of marking unit (W x D x H)	230 x 156 x 213 mm (without built-in parts)
Marking area size (X, Y)	120 x 20 mm
Weight of the marking unit	Approx. 3.5 kg
Marking speed (depending on character height 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 marking 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	230 V AC $\pm$ 10 %, 50/60 Hz or
With connection cable	120 V AC $\pm$ 10 %, 50/60 Hz, switchable
Compressed air connection (supply pressure)	Min. 5 bar (min. 75 psi)
With technically conditioned compressed air	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)

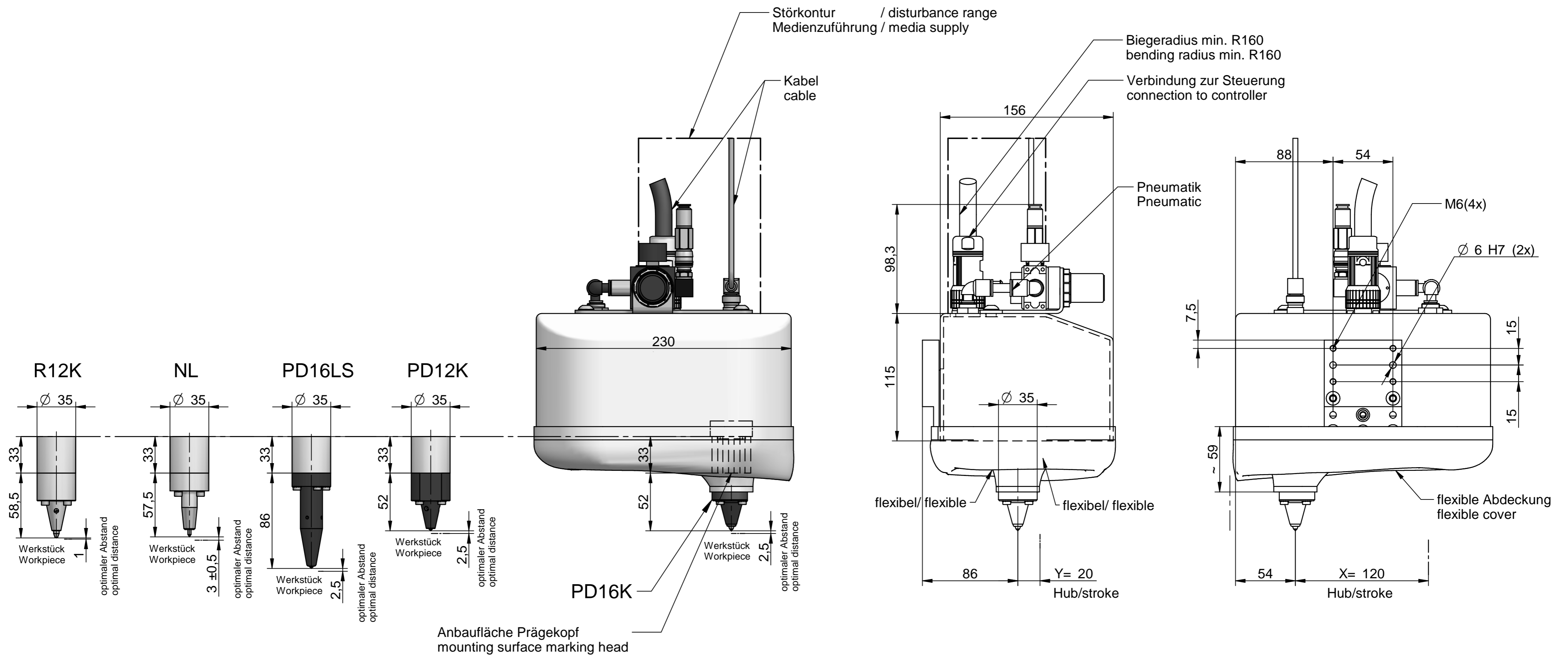
Subject to technical changes.

313A Basiseinheit + Prägeköpfe  
 313A base unit + marking head



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

313A Basiseinheit + Schmutzabdeckung + Prägeköpfe  
 313A base unit + dirt cover + marking head



Maßangaben/dimensions in mm,  
 Technische Änderung vorbehalten  
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