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

BORRIES MARKING-SYSTEMS

Handheld marking unit 312V

Technical data sheet

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

Fig. shows option with positive stop

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

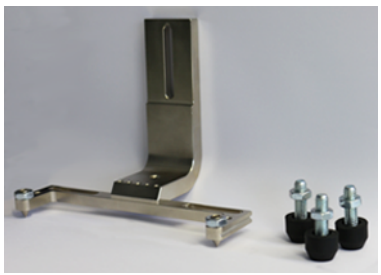
This easily transportable, hand-operated marking unit for dot-peening, stylus marking and DataMatrix coding is ideally suited for many areas of trade and industry in which legible markings are required on materials such as steel and aluminium. Thanks to its good ergonomic properties and easy operation, the marker is excellently suited for use in workshops, quality assurance and warehouse management. The 312V marker is a portable marking system and is manually operated. Single-line or multi-line markings are also possible in larger font heights. The 312V portable marking system is also available with table and column as a stationary workshop unit. As a lightweight with approx. 5.5 kg, the 312V mobile marker sets new standards. With its small dimensions, it offers a writing area of 51 x 51 mm. Quick-change, optional workpiece supports enable adaptation to almost all workpiece geometries. The compact marking controller offers extensive possibilities for data input via PC, barcode scanner, PLC or the integrated membrane keyboard. It is also used for the simple creation and selection of marking jobs. The character heights and font width can be freely scaled.

Options

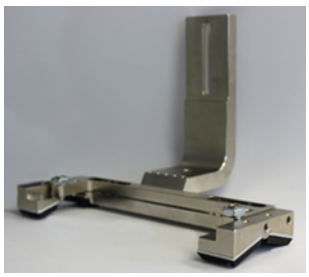
- Covering of the underside of the marker with a dirt cover
- Table and column with mechanical quick-change unit with fine adjustment (Z direction)

Fig. shows the optional table with double column, EK2 box with peripheral devices holder

- Application-dependent positive stop (vacuum) and adapter for round components



Positive stop for flat components



Positive stop for round components optional

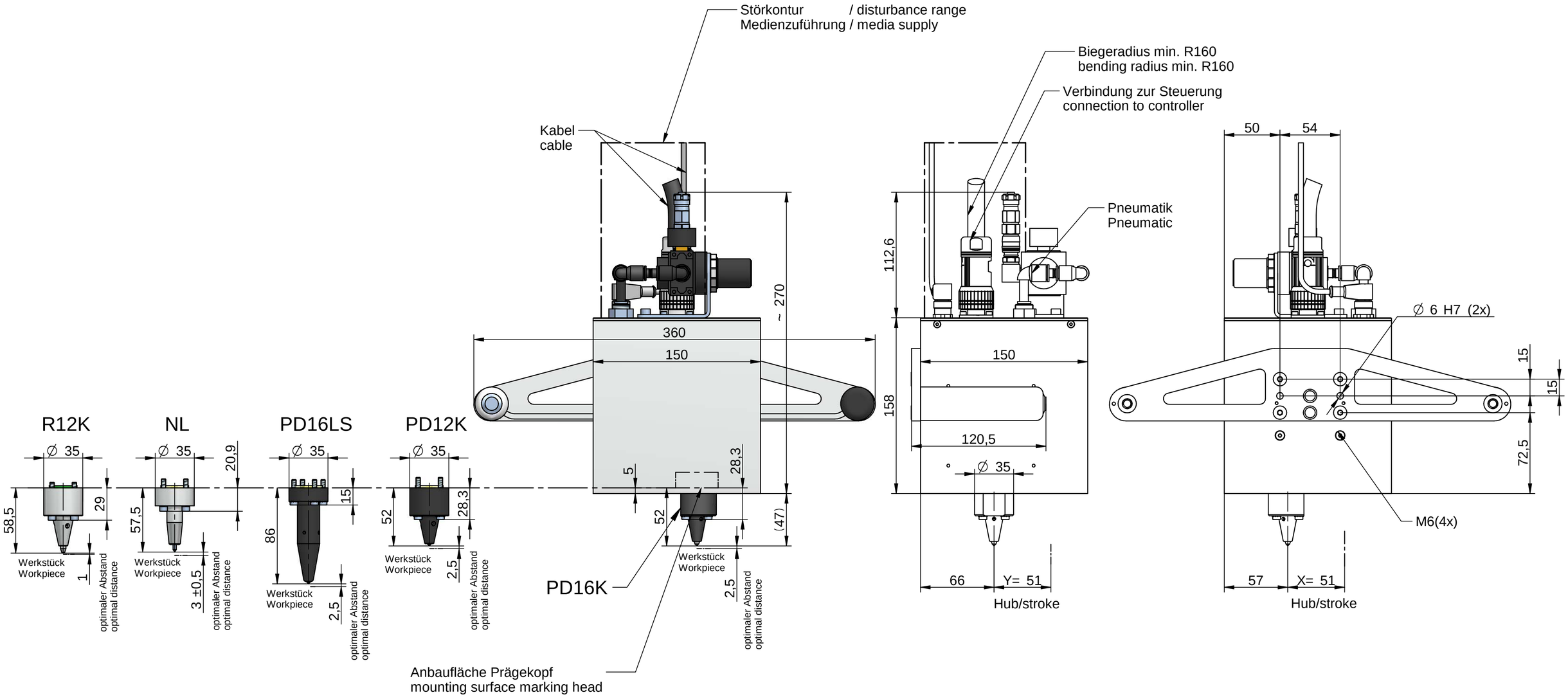
Technical data

Properties	Dimensions, unit, explanation
Dimensions of built-in unit (W x D x H)	360 x 160 x 270 mm
Marking area size (X, Y)	51 x 51 mm
Weight of built-in unit (without controller)	Approx. 5.5 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)
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, stylus marking, Vibropeening, DataMatrix code, other fonts optional
Special characters, logos	Optional according to the template
Writing direction	Straight, angled or circular

Media supply	
Voltage supply via power supply unit with connection cable	230 V AC ± 10 %, 50/60 Hz or 120 V AC ± 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 µm
Working pressure (marking pressure)	Min. 2 bar up to max. 4 bar (30 psi to max. 60 psi)

Subject to technical changes.

312T Basiseinheit + Handgriff + Prägeköpfe
312T base unit + hand grip + marking head



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

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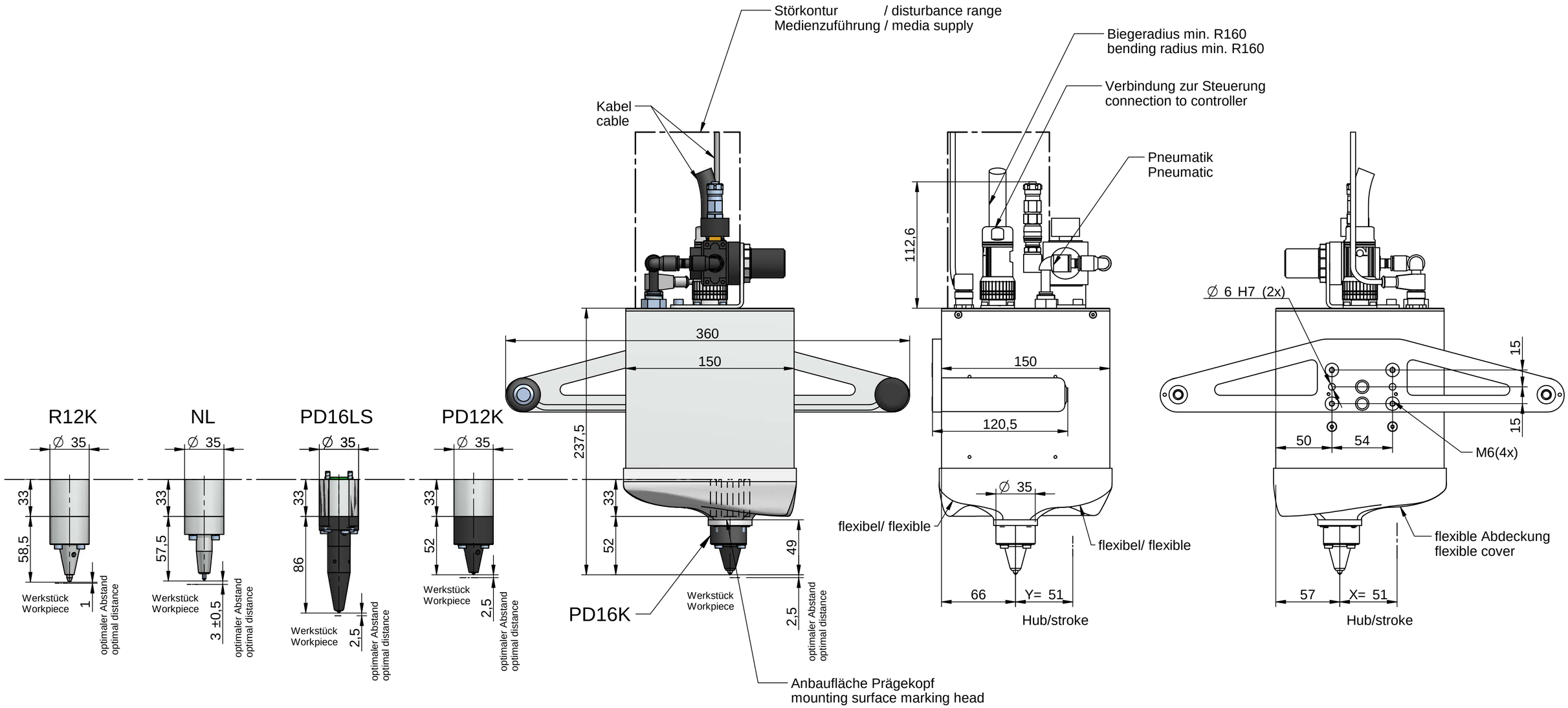
312T Basiseinheit + Handgriff + Schmutzabdeckung + Prägeköpfe
312T base unit + hand grip + dirt cover + marking head



Maßangaben/dimensions in mm,
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