

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

310 Built-in Unit

Technical data sheet

- Marking area size 51 x 26 mm (X/Y)
- Marking process: Dot matrix marking
- DataMatrix coding (ECC200)
- Small and lightweight built-in unit for flexible component marking
- Y-axis: innovative, newly developed parallelogram guide (four-bar linkage)
- X-axis: Belt drive with carriage and revolving ball guides
- Actuators/sensors permanently installed, thus no moving cable routing and no cable breakage
- Drive with powerful stepper motors



Application area

The built-in unit 310 was designed for compact production lines. The marker is ideal for use on robots, e.g. in welding cells, and marks plain text in dot peening and DataMatrix coding on steel, aluminium or plastic. The marking unit is delivered as standard with the VisuMark 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.

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



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

Options

- Pneumatic adjustment unit (50 mm, 80 mm or 100 mm stroke)
- Electrical adjustment unit (100 mm stroke)
- Component probing via stylus tip (only in combination with the electrical adjustment unit)
- Covering of the underside of the marker with a dirt cover

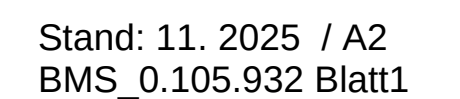
Technical data

Properties	Dimensions, unit, explanation
Dimensions of built-in unit (W x D x H)	120 x 71 x 179.5 mm (without marking head)
Marking area size (X, Y)	51 x 26 mm
Weight of built-in unit (without controller)	Approx. 2 kg
Character height	from 1 mm (in 0.1 mm steps)
Installation position	Freely selectable
Documentation	German, English 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
Font	7 x 5 dot matrix DataMatrix code Other fonts optional
Special characters, logos	Optional according to the template
Writing direction	Straight, angled or circular

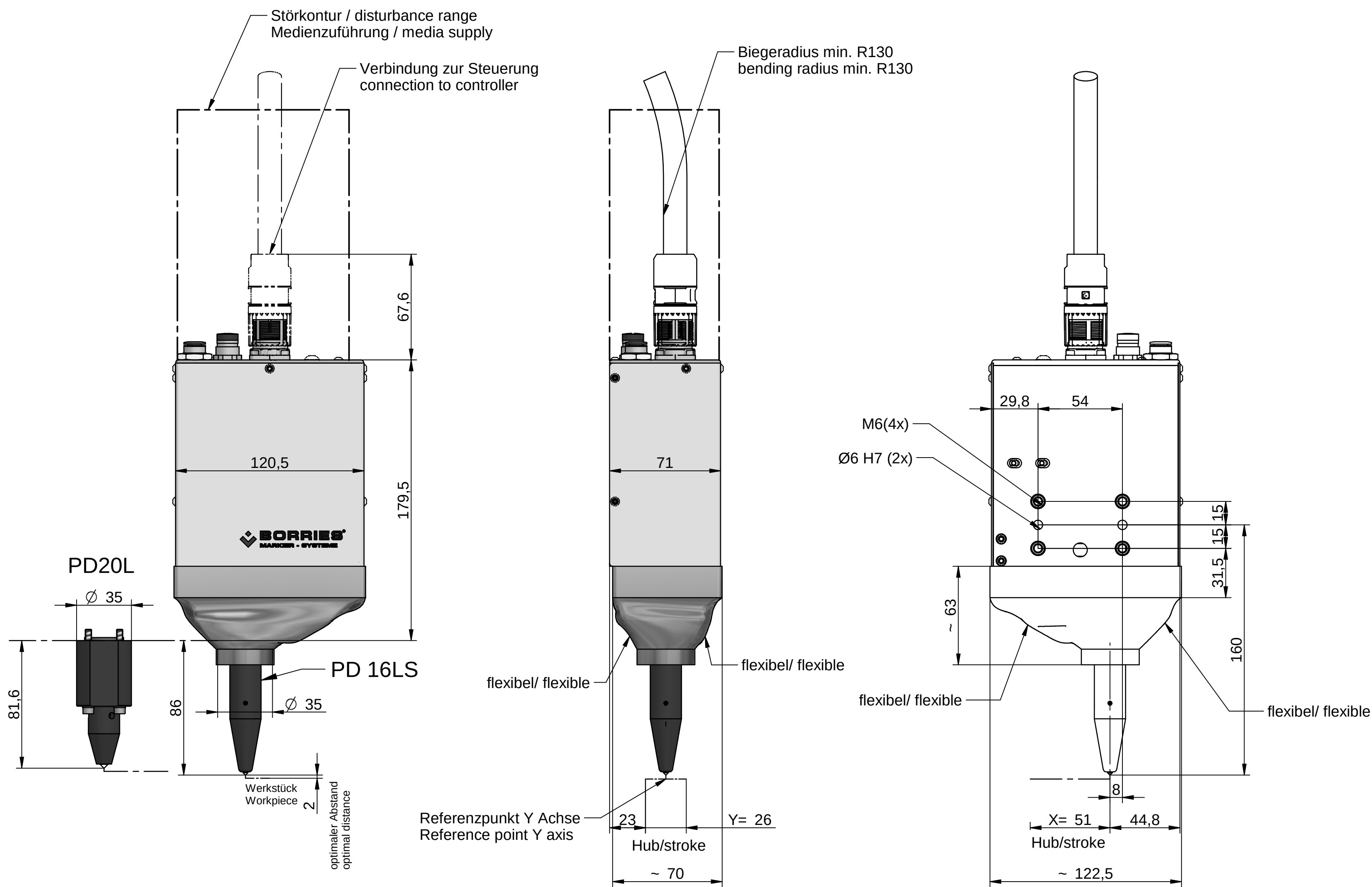
Media supply

Voltage supply via BMC supply unit with connection cable	Wide-range power supply integrated in the controller
Compressed air connection (supply pressure)	Min. 5 bar (min. 75 psi)
With technically conditioned compressed air	Dried, oil-free, filtered with 50 µm
Working pressure (marking pressure)	Min. 2 bar up to max. 4.5 bar (30 psi to max. 65 psi)

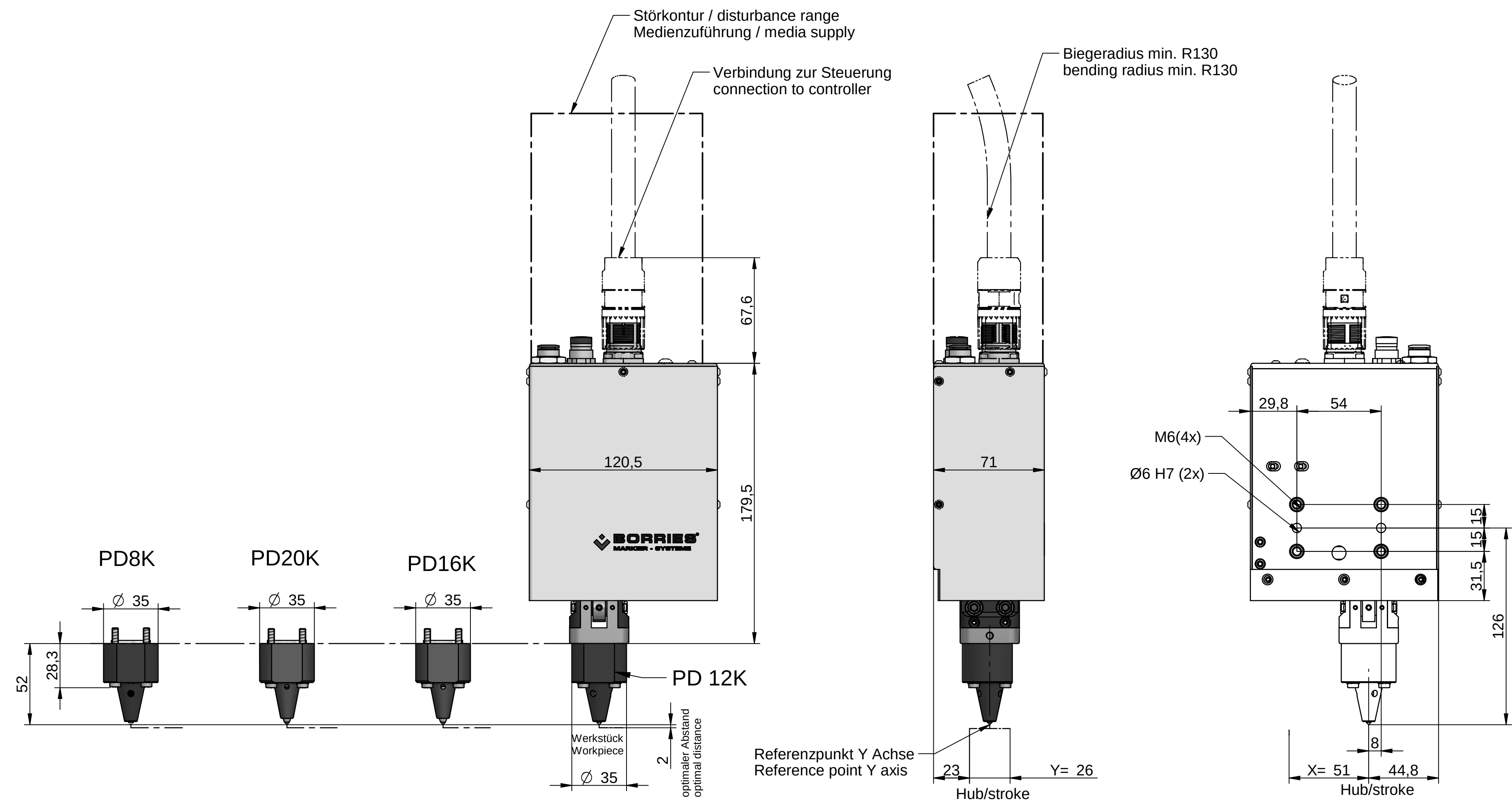
Subject to technical changes.



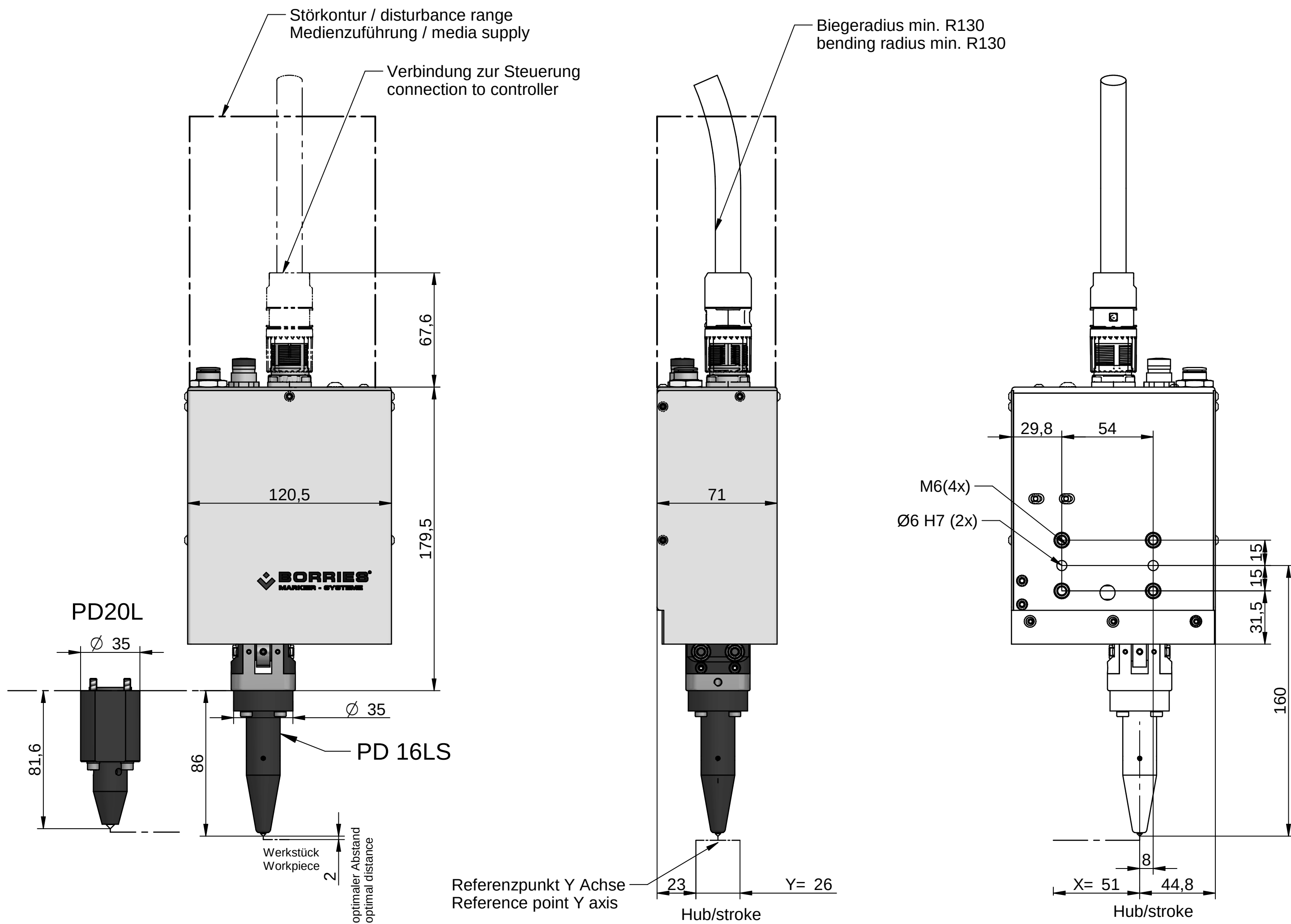
Optional / options:
310 Basiseinheit + Schutzabdeckung + Prägeköpfe PD16LS, PD20L
310 base unit + dirt cover + marking head PD16LS, PD20L



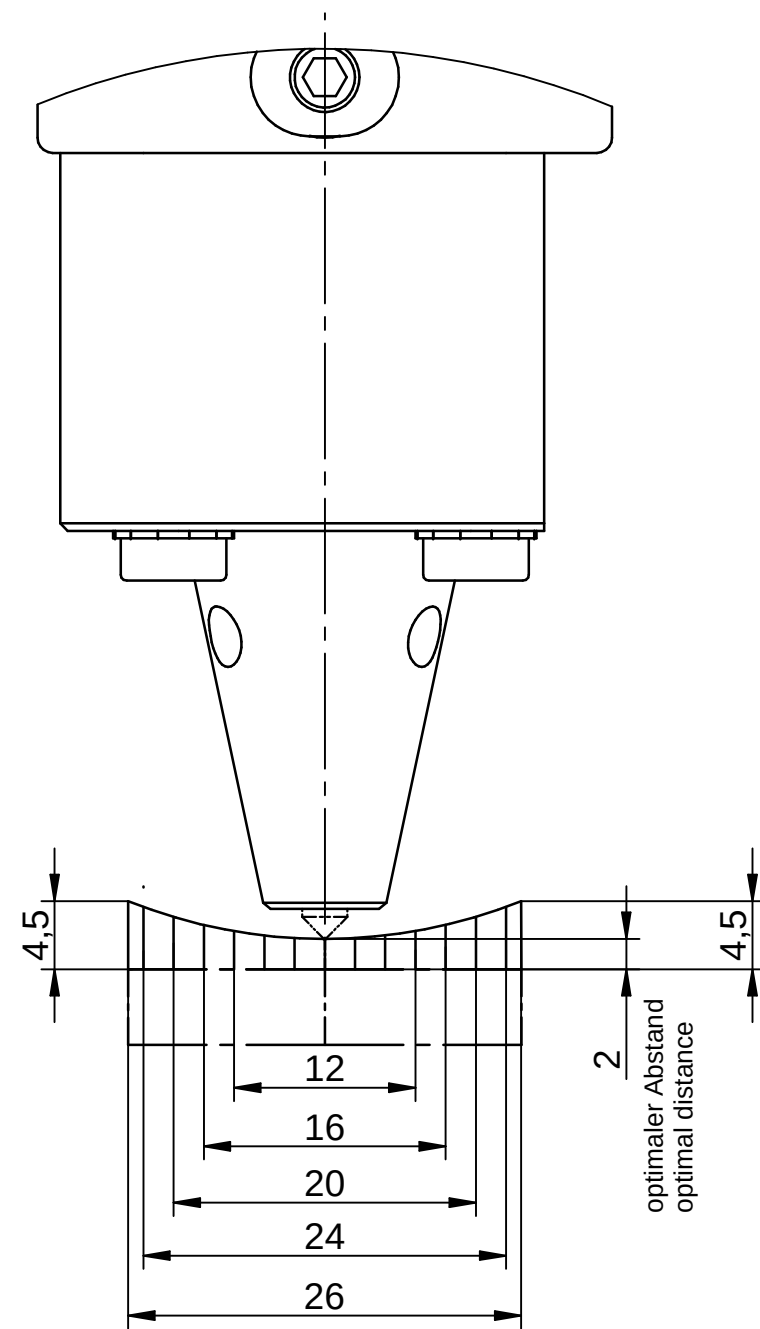
Maßangaben/dimensions in mm,
Technische Änderung vorbehalten
technical modifications reserved



Optional / options:
310 Basiseinheit + Prägeköpfe PD16LS, PD20L
310 base unit + marking head PD16LS, PD20L



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



Einzelheit Z
detail Z
2:1

Radius / radius =35 mm	
Prägebereich Y-Achse (mm) marking area y-axis (mm)	Höhendifferenz (mm) elevation (mm)
26	2,50
24	2,12
22	1,77
20	1,46
18	1,17
16	0,93
14	0,71
12	0,52
10	0,36
8	0,23
6	0,13
4	0,05

