



Patent pending

The free-standing column CS-4000 *next*

Suspension system for enclosed IPCs – Unique on the market

Since 70 successful years – **always there for you**

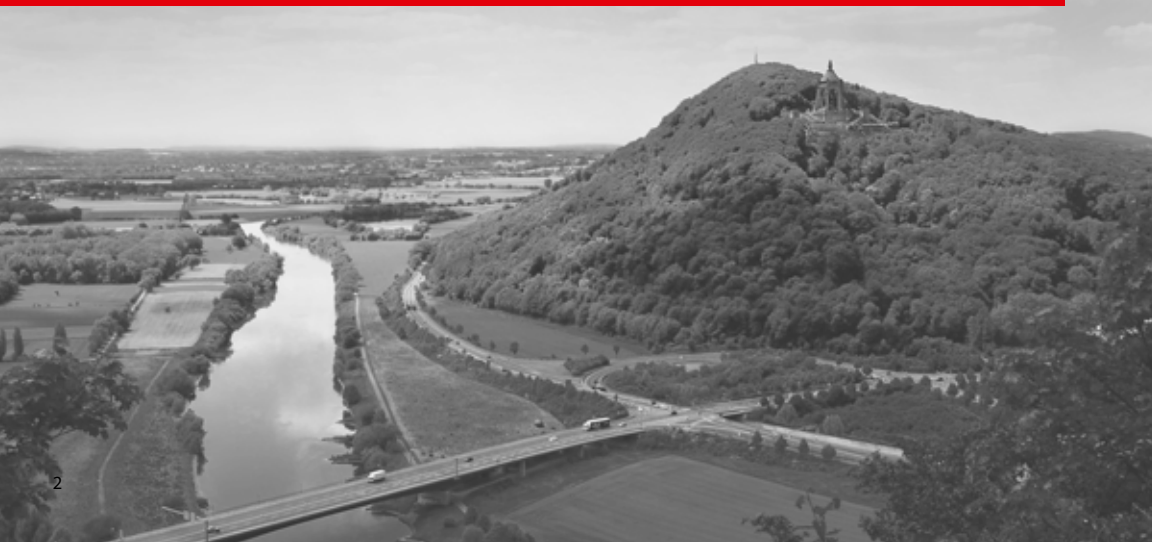
The BERNSTEIN AG, headquartered on the banks of the River Weser in Porta Westfalica - the “Westfälische Pforte” (Westfalian Gate) between the Weser and Wiehengebirge mountains – looks back on an eventful past that is directly linked to Germany’s most recent history. In 1947 here Hans Bernstein founded the company “Hans Bernstein Spezialfabrik für Schaltkontakte”, from which the BERNSTEIN AG – today operates internationally – emerged. The family owned company is now in the third generation and today employs more than 500 people in 10 countries.

In-depth market knowledge, the close proximity to end users as well as years of experience in mechanical engineering and electronics are reflected down to the last detail in our products. Against this backdrop, BERNSTEIN ranks among the world’s leading providers of industrial safety and enclosure technology. With our comprehensive range of switches, sensors, enclosures and operator terminals and suspension systems, we offer our customers effective and versatile solutions. By conforming to international safety and machine guidelines, our products perfectly integrate in individual system solutions.

The evolution of the market is creating new driving forces that lead to continuous and innovative development. Bernstein meets these changing needs through the provision of superior technical expertise, excellent market knowledge and customer relationships built on trust. Customer Satisfaction is our number one priority. For us, Quality is more than making a good product: it’s about designing it to perfectly match all of your needs.



Your progress is our motivation.





Technically innovative. Personally specific. **Individually special – just like you**

Customised Solutions are fully integrated into our business and form part of our everyday working life. Employees are treated as our greatest asset as they are responsible for the quality and success of our products. All BERNSTEIN TEAM members are trained and educated to the highest possible standard so they can deliver “Best in Class” Service and Support. The BERNSTEIN TEAM will support you both personally and professionally, working together we will provide you with the best Safe Solution – for any size of project.

Individual system solutions

We keep safe your visions

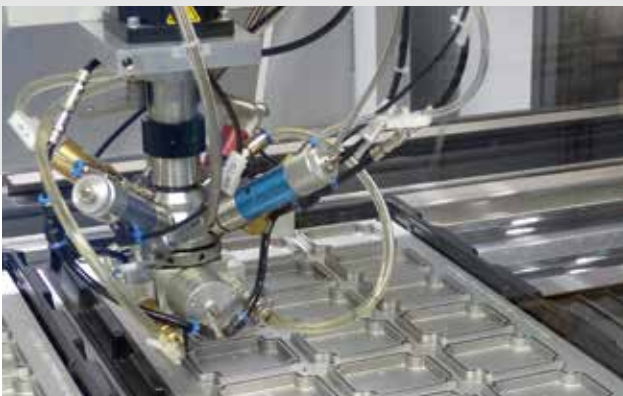


BERNSTEIN offers:

- A finished product from one source
- Individual adaptation / Customised configuration
- Perfect integration into your specific machines and systems
- Coordination of external customising providers' no longer necessary
- Simplified logistics chain
- High quality standard
- Short lead times
- Turnkey delivery solutions

The optimum application solution completely wired-up with ...

- Control and signalling devices
- Emergency stop devices
- Main switches
- Machine operator identification systems
- Key switches
- Keyboards
- IPCs/displays
- Supply lines and data cables
- Ethernet components





**We keep safe
your visions.**

You know BERNSTEIN as a supplier of innovative and reliable enclosures and suspension arm system solutions for industrial applications. But as of now we offer you even more space:

- The right product for your application
- Competent technical advice
- Engineering and project management offered as a one-stop service
- Best and constantly monitored quality
- Customer specific developments and approvals

The new suspension system CS-4000 neXt offers a new approach through system integration (e.g. customising and installation of emergency stop devices), all in accordance with the requirements of the Machine Directive. Convince yourself and allow our expert team to advise you.



Flexible concept as console or column configuration

Unlike standard suspension system solutions with individual screens or IPCs, the CS-4000 neXt meets the requirements of the Machinery Directive by the possibility of integrating emergency stop devices. Due to its two-chamber design and clever construction, an IP65 solution can be achieved.

Product features

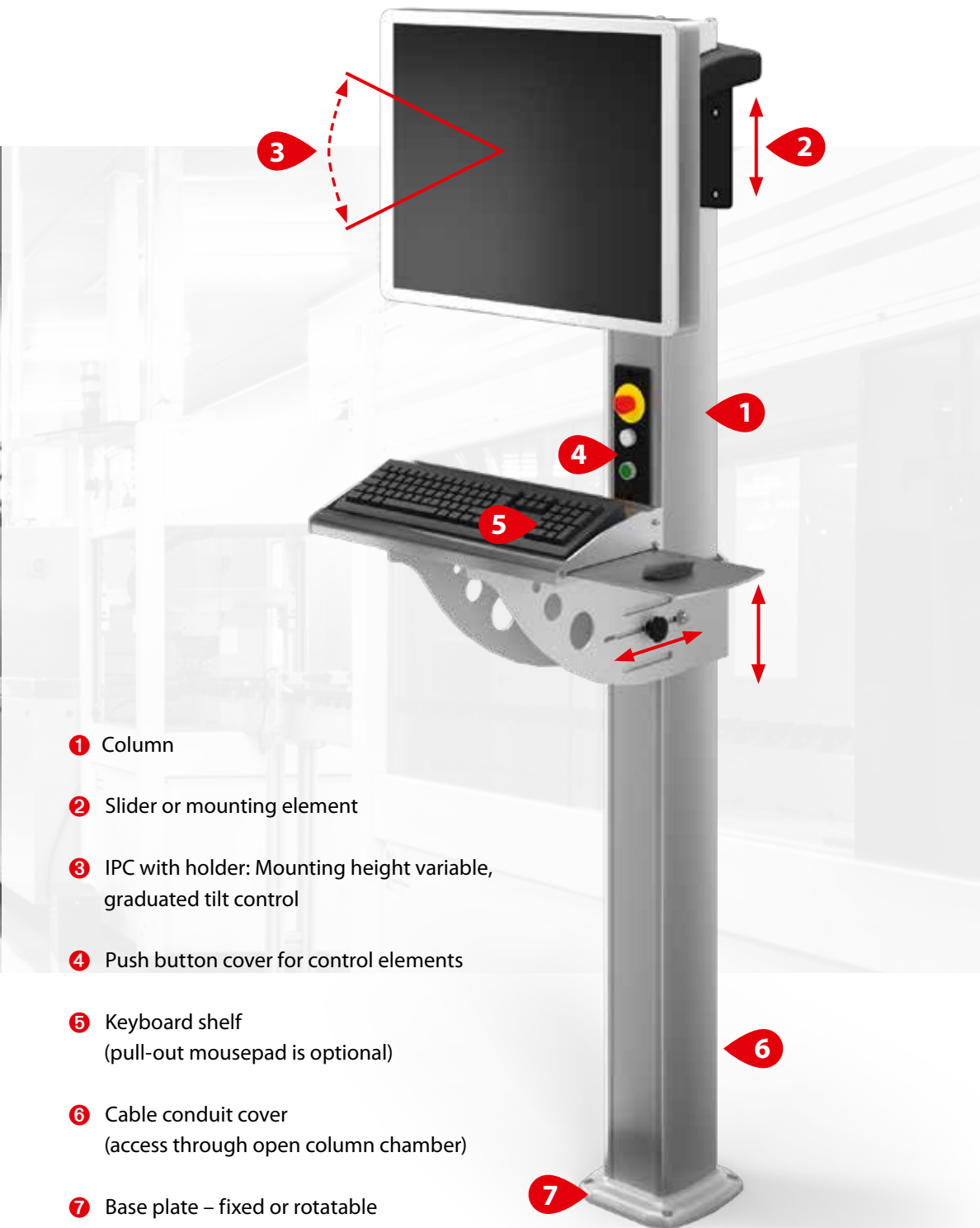
- High protection class IP65 at area of closed column chamber
- Internal cable routing
- IPC and keyboard shelf holder can be positioned individually
- IPC holder with graduated tilt control
- Optional integrated control elements (to fulfil the Machine Directive 2006/42/EG)
- Column of high-quality extruded aluminium sections (naturally anodised, 2-chamber column)
- Customer-specific length of the column possible

Scopes of application

- Production lines in the automotive industry
- Plant and machine construction with decentralised controlling concept
- Decentralised display or HMI positioning

CS-4000
neXt





- ❶ Column
- ❷ Slider or mounting element
- ❸ IPC with holder: Mounting height variable, graduated tilt control
- ❹ Push button cover for control elements
- ❺ Keyboard shelf
(pull-out mousepad is optional)
- ❻ Cable conduit cover
(access through open column chamber)
- ❼ Base plate – fixed or rotatable

Extensive accessories see on pages 20–21

The compact console version

Fixed or tiltable



Fixed tilt angle

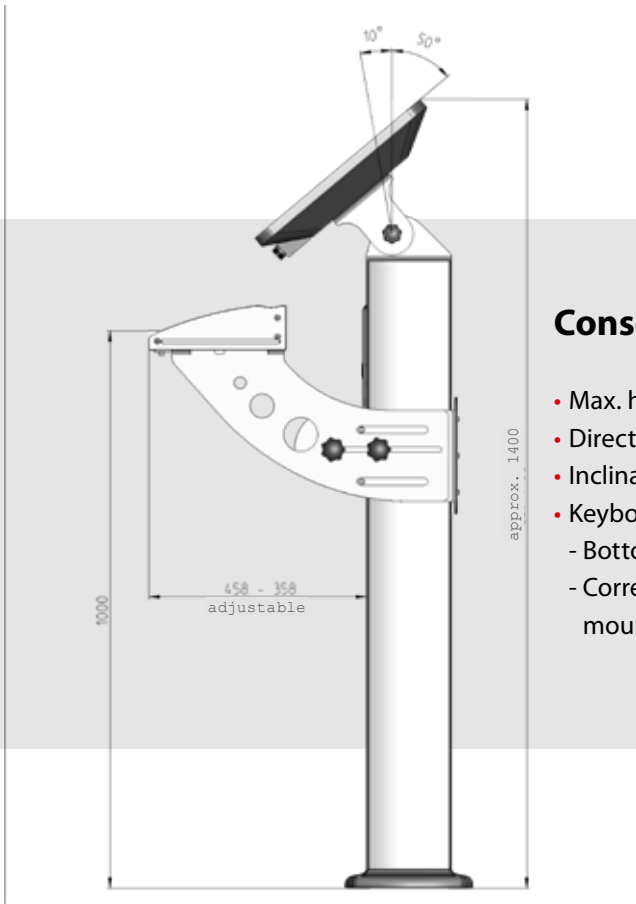
- Fixed tilt angle of 35°
- Suitable for VESA 75/100, 48 mm round tube (customer specific attachment on request)



Tilt adapter flex for console column

- For the adjustment of the IPC tilt angle for console configurations
- Inclination in 5° steps adjustable from 0° to 60°
- Star grip for locking the selected position
- Suitable for VESA 75/100, 48 mm round tube (customer specific attachment on request)
- Optional gaiter for IPC with open connection area

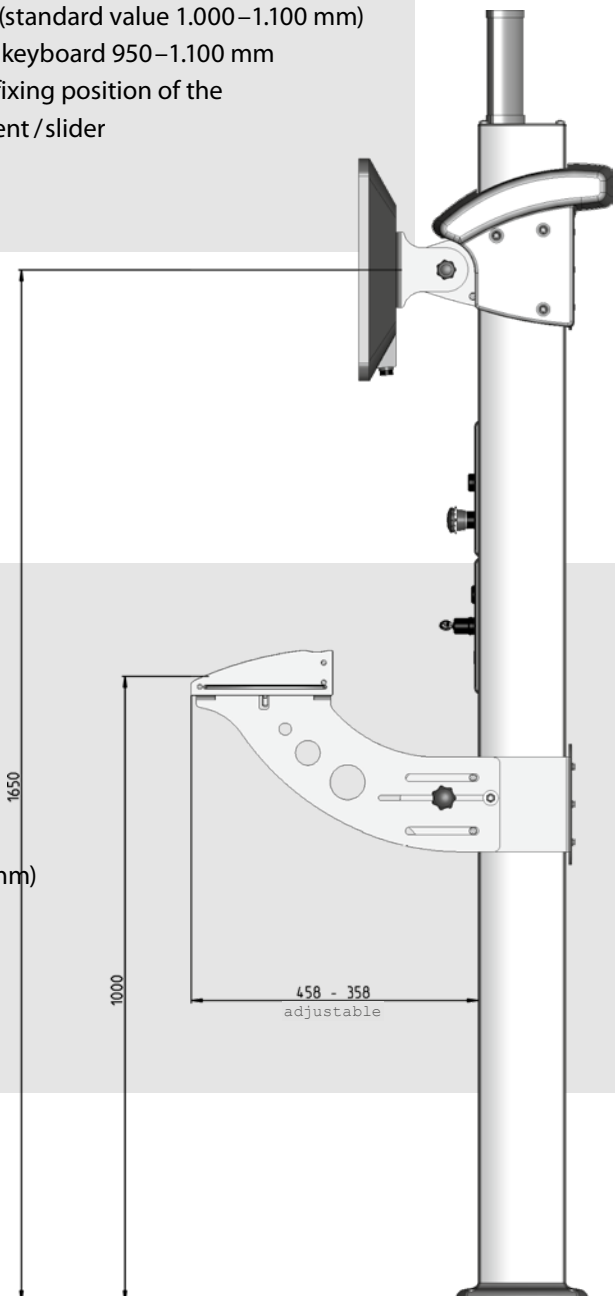
Ergonomic measurements according to DIN 33402-2



Console version

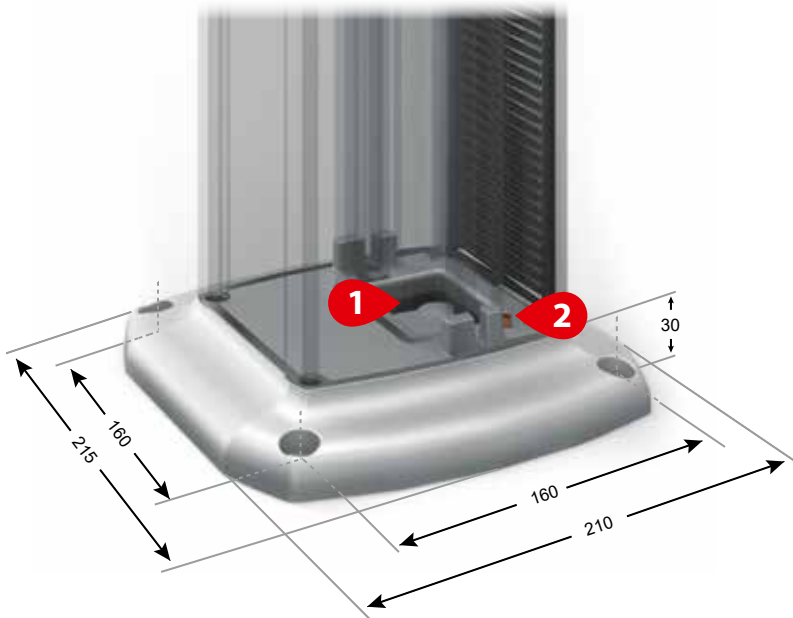
- Max. height 1350 mm for 35°
- Direct assembly of the IPC on tilt adapter
- Inclination in 5° steps adjustable from 0° to 60°
- Keyboard height (standard value 1.000–1.100 mm)
 - Bottom edge of keyboard 950–1.100 mm
 - Corresponding fixing position of the mounting element / slider

- ## Column version
- Visualisation height (standard value 1,650 mm)
 - Centre of the screen $1,650 \pm 50$ mm
 - Corresponding fixing position of the mounting element / slider
 - Desk area height (standard value 1,000 - 1,100 mm)
 - Lower edge of the keyboard 950 - 1,100 mm
 - Corresponding fixing position of the mounting element / slider



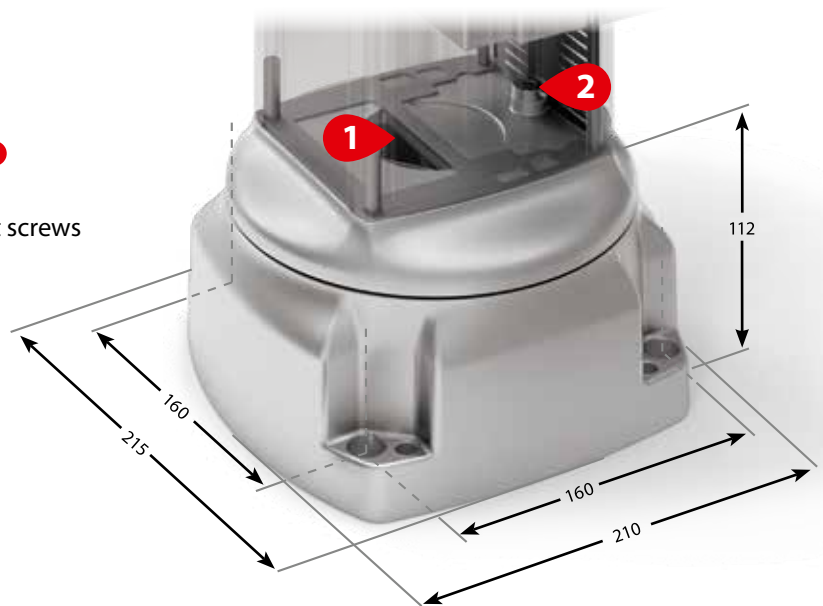
Base plate

Fixed and rotatable



Fixed base plate

- Cable entry into the open column chamber ①
- Connection for potential equalisation ②
- Optionally supplied with levelling adjustment screws



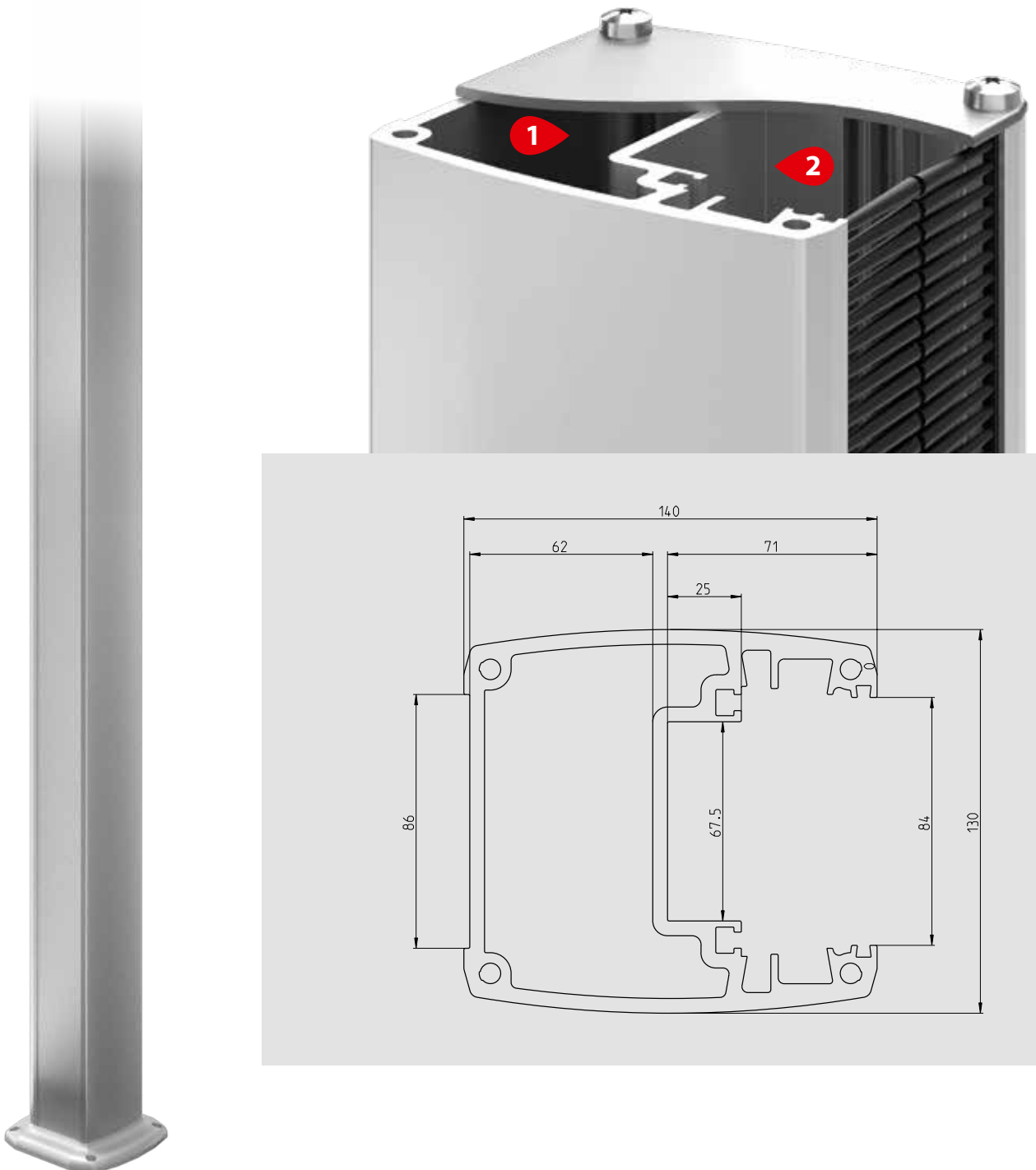
Rotatable base

- Angle of rotation 300° with limit stop
- Protection class IP65
- Installation area for mounting the cable entry system (e.g. Icotek KEL, Contaclip KDSClick) for cable entry into the closed column chamber ①
- Connection for potential equalisation ②
- Optionally supplied with levelling adjustment screws

Aluminium column with double chamber system



- Closed column chamber ❶ (IP65)
- Open column chamber ❷ for IPC and keyboard shelf holder positioning and cable routing
- Cable routing via open column chamber
- Open column chamber (back side) optically closed through brush strip

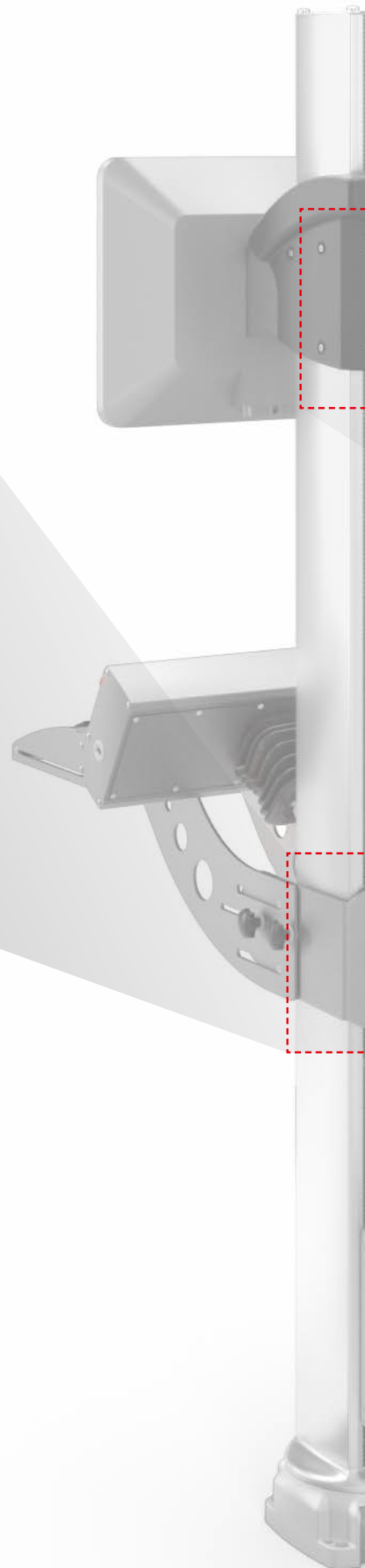
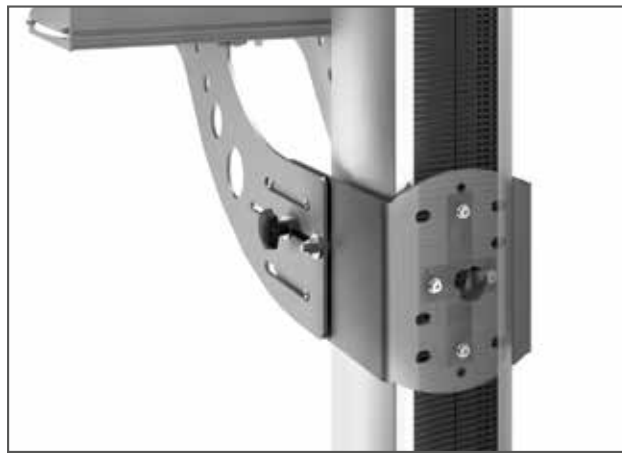


Slider

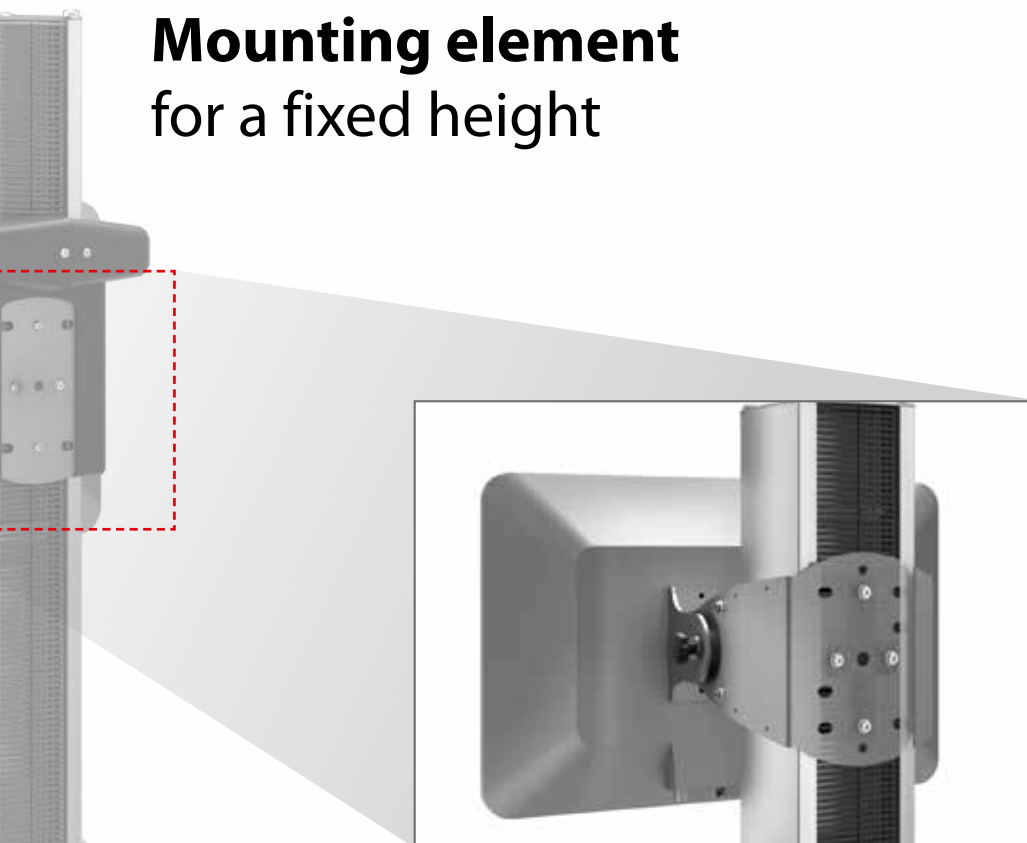
Individual height adjustment

Product features

- Height adjustable without tools
- Simple fixing of the adjusted position through star grip
- Linear guide with sliding elements
- Limit stops for constraining and securing adjustment travel



Mounting element for a fixed height



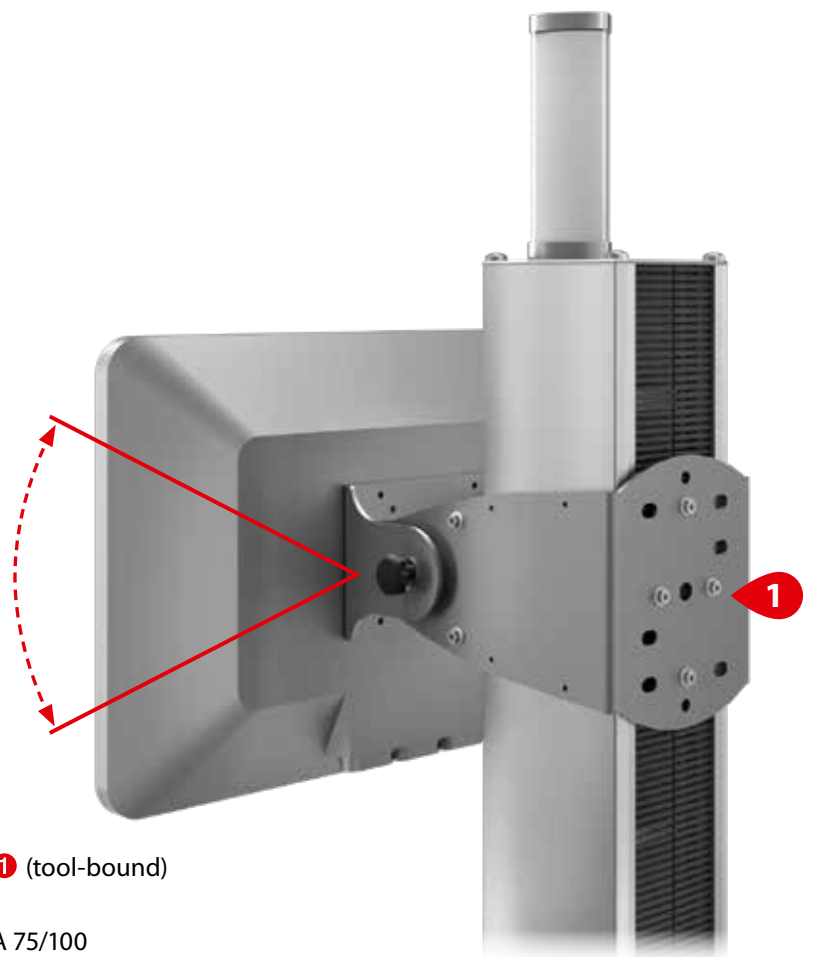
Product features

- Mounting element for IPC and keyboard shelf holder positioning
- Subsequent change of position only by tool
- Limit stops for constraining and securing adjustment travel

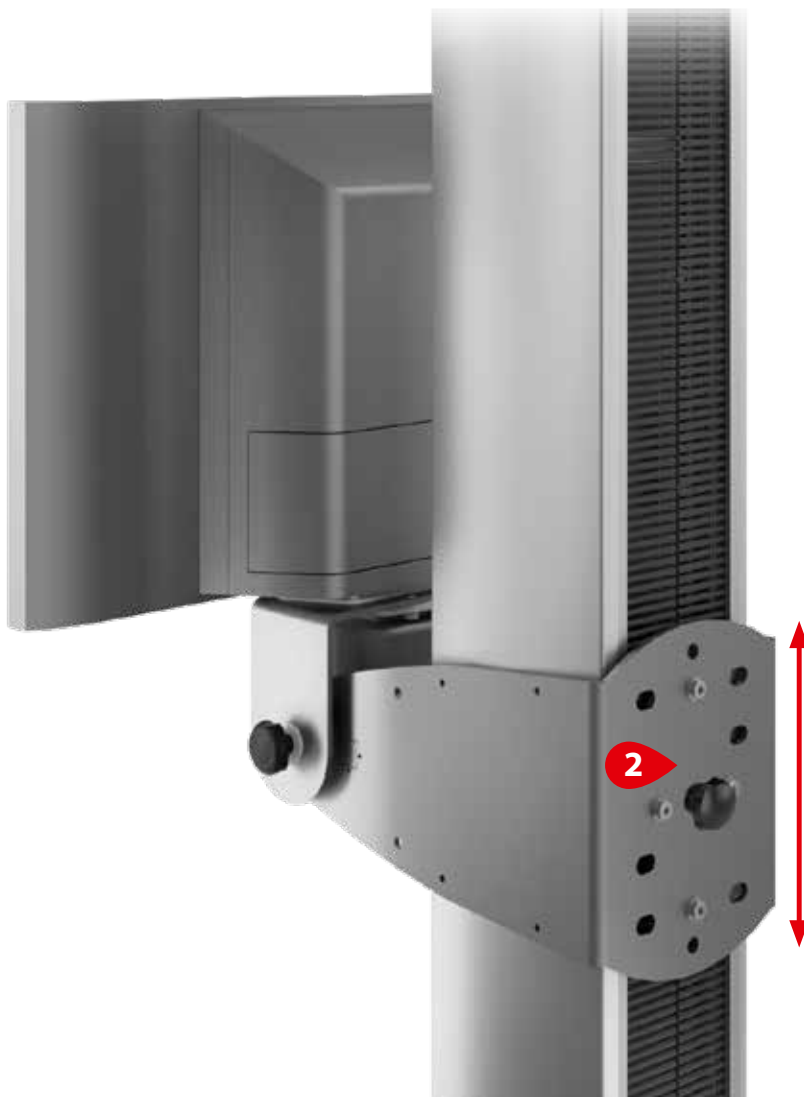


IPC holder

Variable height and tilt adjustment

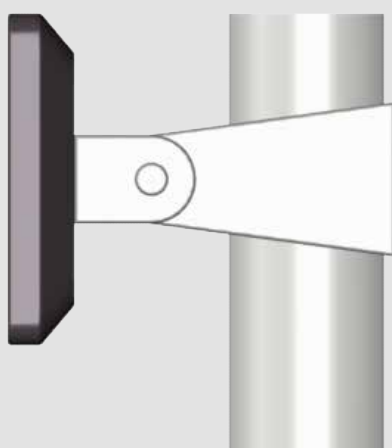


- Height variable through mounting element ❶ (tool-bound) or slider ❷ (without tools) freely selectable
- Connection of IPC/display/monitor with VESA 75/100 or Ø 48 round tube
- Maximum inclination $\pm 24^\circ$ (depending on connection type)

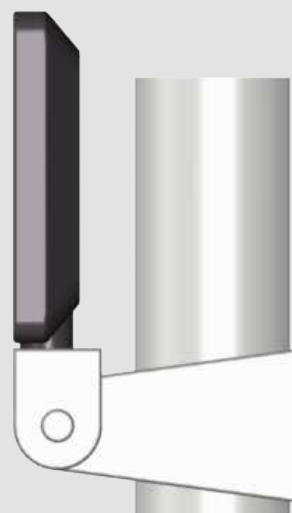


Possible connection type

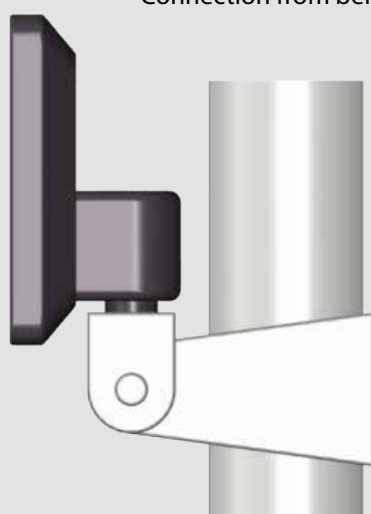
VESA 75/100
Connection from behind



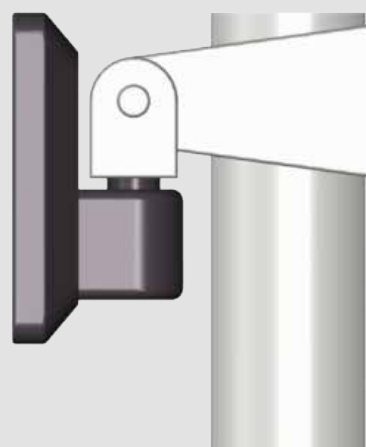
Siemens Pro
Connection from below



Round tube Ø 48 mm
Connection from below



Round tube Ø 48 mm
Connection from above



Keyboard shelf

Choice of two versions

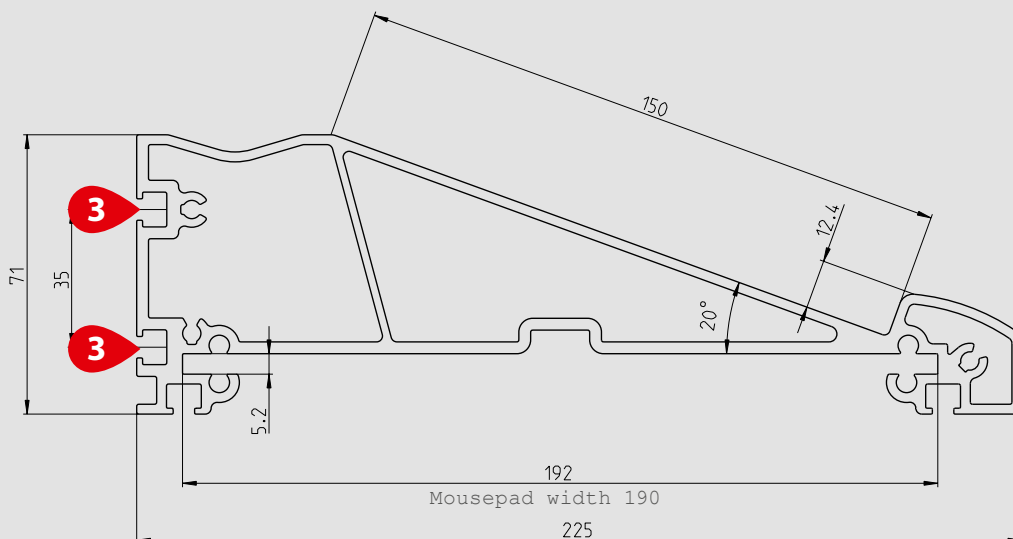
Fixed keyboard shelf

- Height variable through mounting element/slider
- Extruded aluminium sections (naturally anodised)
- Optional mousepad to be pulled out to the right or left side ❶
- Fastening option in the back cover ❸



Adjustable keyboard shelf

- Height variable through mounting element/slider
- Extruded aluminium sections (naturally anodised)
- Optional mousepad to be pulled out to the right or left side ❶
- Maximum possible depth adjustment 100 mm ❷
- Fastening option in the back cover ❸



Control console



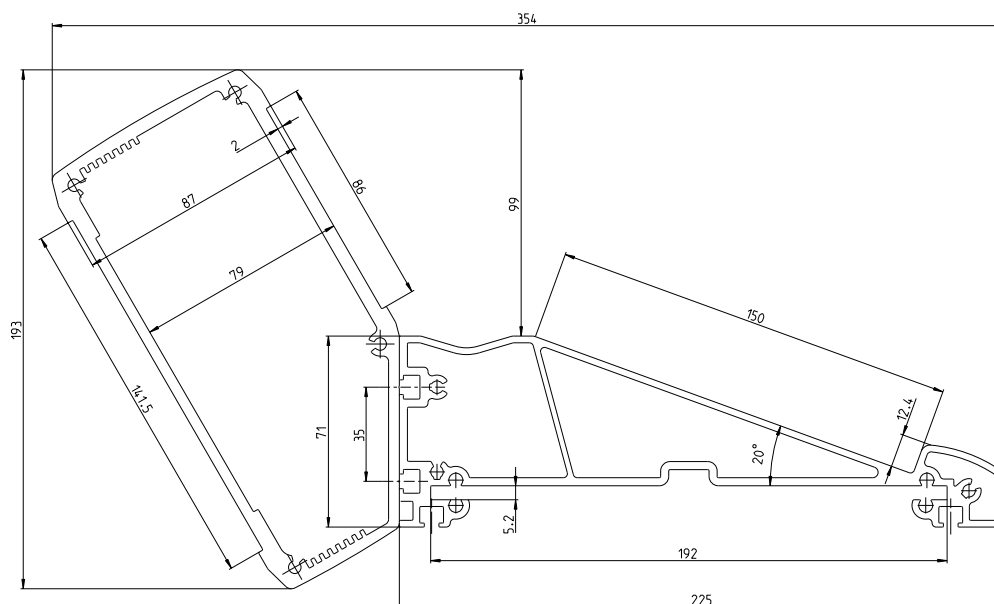
Integration of all necessary
command modules and
signal units



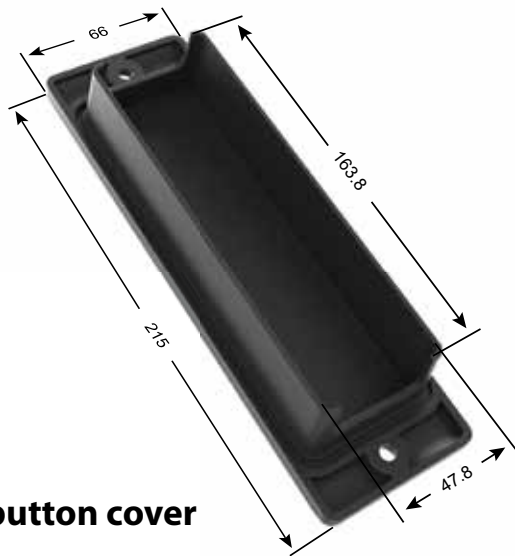
The emergency stop function is still fully
guaranteed in case of necessary replacement
of the IPC.

For the installation of ...

- Command and signalling devices such as push buttons, emergency stop buttons, etc.
- Main switches, key switches
- *Electronic Key System (EKS)* – Transponder-based read/write stations
- Adaptable in width individually
- Extruded aluminium sections (naturally anodised)
- Adaptation to keyboard shelf
- Screw-fixed rear panel

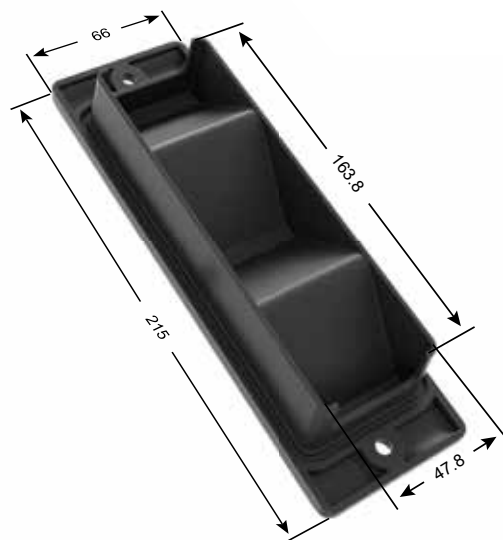


Covers and inspection window with various equipment variants



Push button cover

- Cover for control elements
- Optional integrated emergency stop device and key switch
- Maximum of 5 push buttons or 3 push buttons with identification label
- Installation from the front
- IP65 due to foamed sealing
- Installation area 165 × 60 mm



Cable conduit cover

- Cable conduit cover with 45-degree bevelled curve for optimum bending radius
- Cable entry into the closed column chamber ①
- IP65 due to foamed sealing
- Maximum installation area 2 × M25



Different examples for customer-specific solutions

Inspection window cover

- For monitoring and control of signalling and built-in devices such as MURR compact module
- Aluminium cover with acrylic glass cover
- Compatible with CS-4000 neXt column section
- Adaptable to AIDA mixing module



Aluminium cover

- Main switches
- Machine operator identification systems
- Key Panels

Accessories

For even more individuality

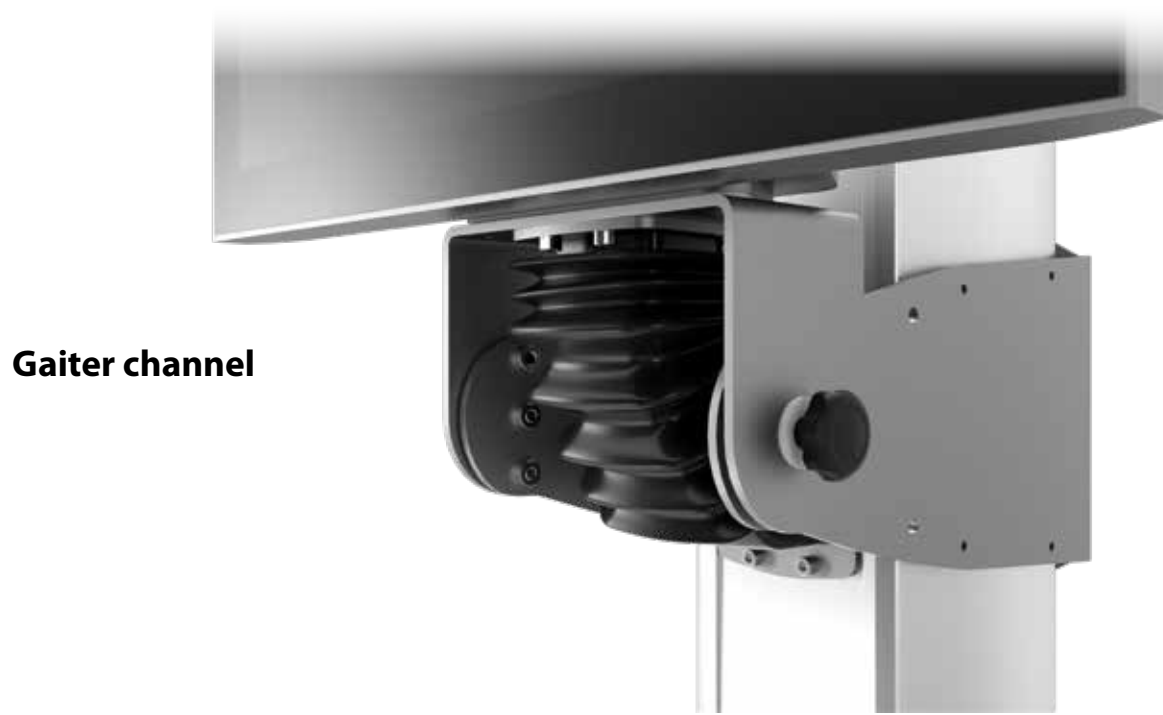
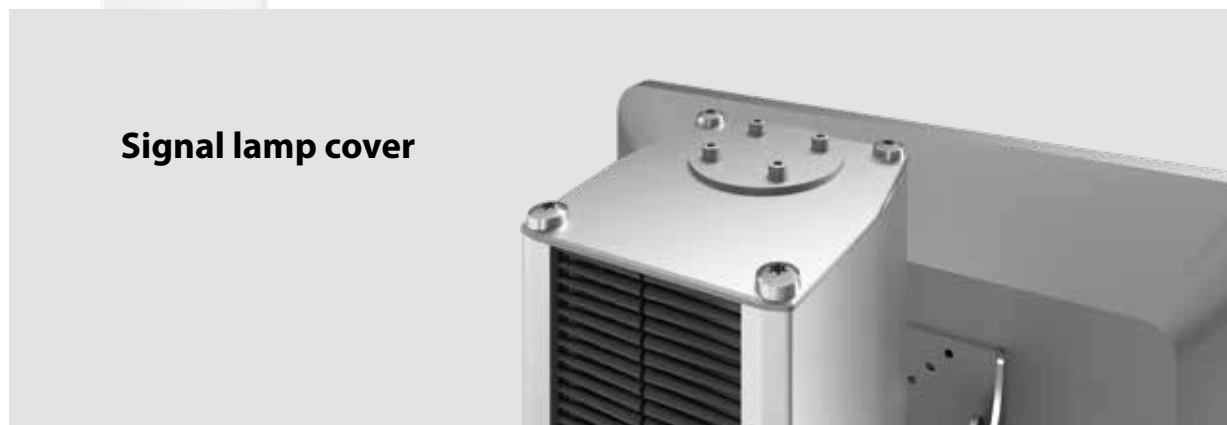
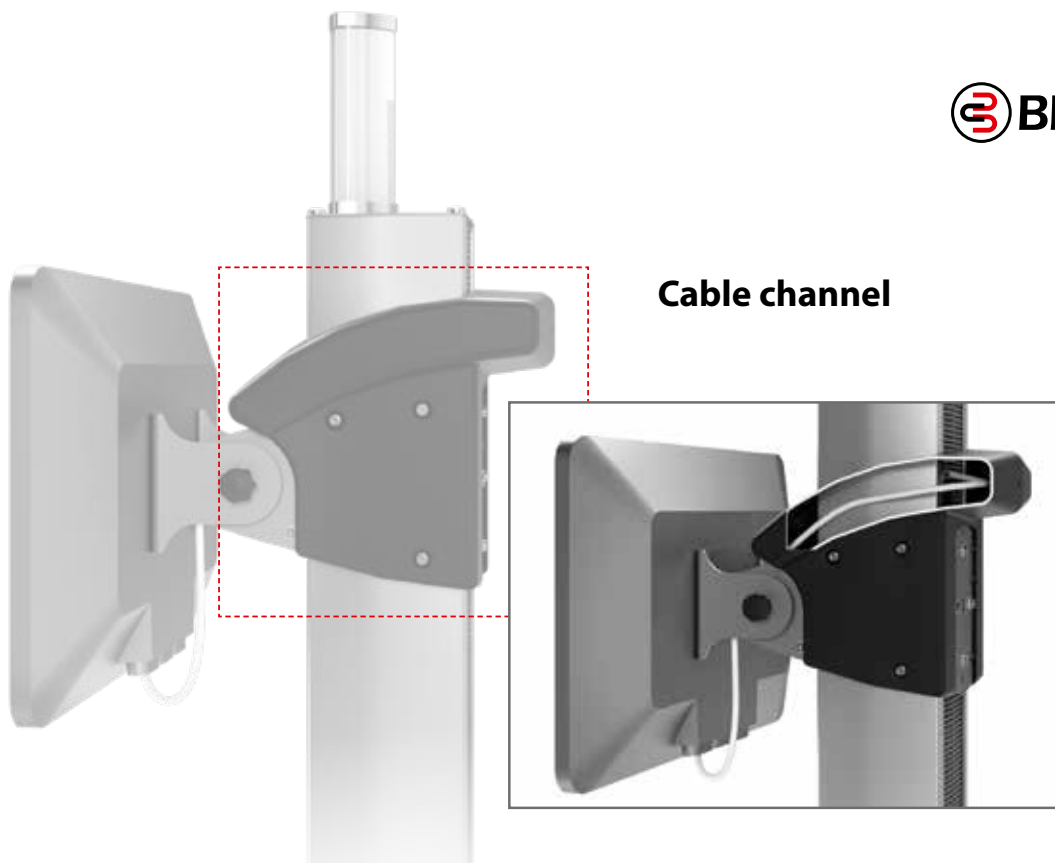


Universal tray

- Safe storage area for printers, PC hardware or similar periphery units
- Fixing to the assembling element or slider on the back side of the column
- Individual mounting on left, on right or even on both sides
- Storage area 450 × 300 mm (adjustable according to your wish)

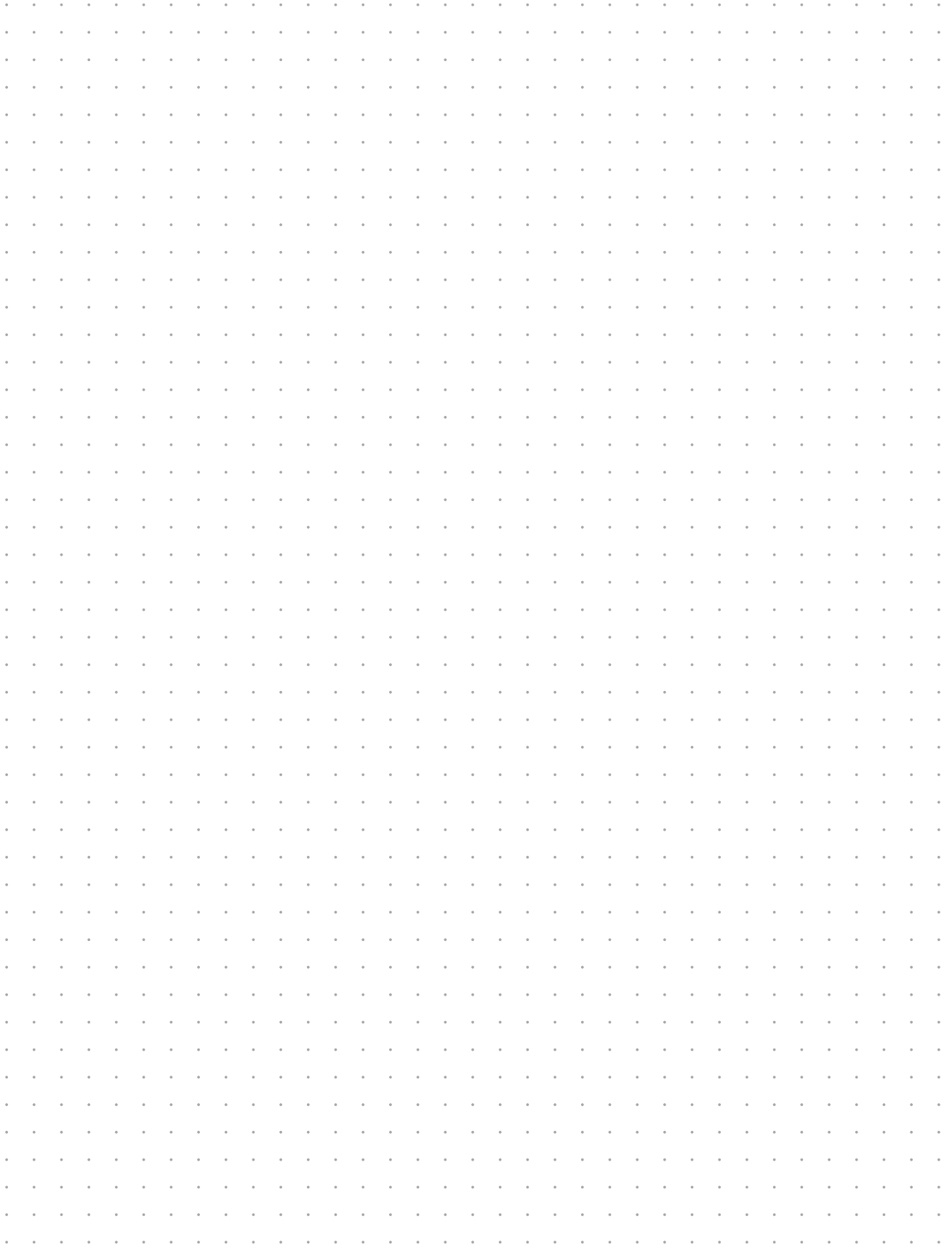
Box PC holder

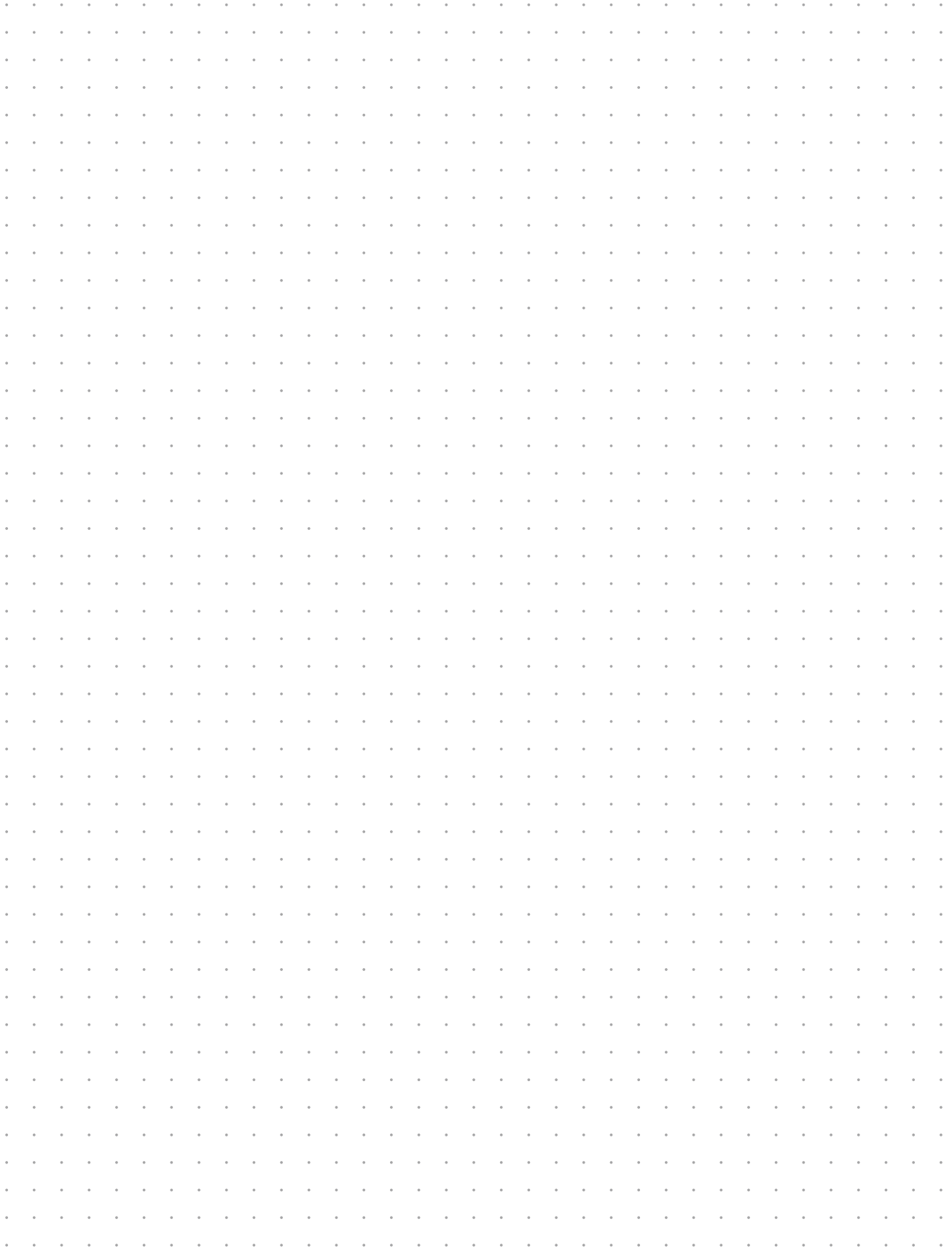
- For safe storage of customary box PCs
- Front side with opening flap – lockable with customary sash locks, e.g. two-way bit
- Protection degree IP65
- Cable entry via closed column chamber
- Inside dimensions (L×W×H): 210 × 60 × 215 mm



Notes

Plans. Drafts. Ideas – and everything else.





**DETECT****We make
safety happen.****PROTECT****We keep safe
your visions.**

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