

The machine frame that combines design and functionality



flex
frame  häwa

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Well Conceived



The häwa group has established itself as an innovative and highly competent supplier to machinery and facility equipment companies in the electrical and electronic industries, far beyond the borders of Europe. We develop, manufacture, and deliver standard and custom solutions – economically & reliably – for a great variety of applications. Many decades of experience in the enclosu-


re business and close cooperation with end customers, guarantee optimal benefits for our customers. Our comprehensive services range from initial discussions to concept development, to design, construction, assembly and, finally to detailed logistical support. We create value-added solutions for our customers through problem solving, and develop

reliable, trusted partnerships. „Made in Germany” is – for us – the yardstick in quality. We are a highly motivated and qualified team of over 400 associates who together with our exclusive business partners serve an ever increasing range of international customers.


	Cabinets Systems	Free Standing and Modular Cabinets in Steel and Stainless Steel, PC Cabinets
	IT Solutions	Server and Distribution Racks, Cabinets and Enclosures
	Enclosures	Wall Mount Enclosures, Junction Boxes and Small Housings in Steel, Stainless Steel, Plastic and Aluminum
	Fire Protection	Safety in Steel: Maintaining Function and Escape Safety
	Thermal Components	Heating, Ventilating and Cooling
	Cable Ducts, Accessories	Enclosed Cable Ducts, Complete Cabinet Accessories
	fleX-frame	Machine enclosures, machine frames
	Tools	Portable Tools, Shop Equipment and Factory Automation



The fleX-frame system

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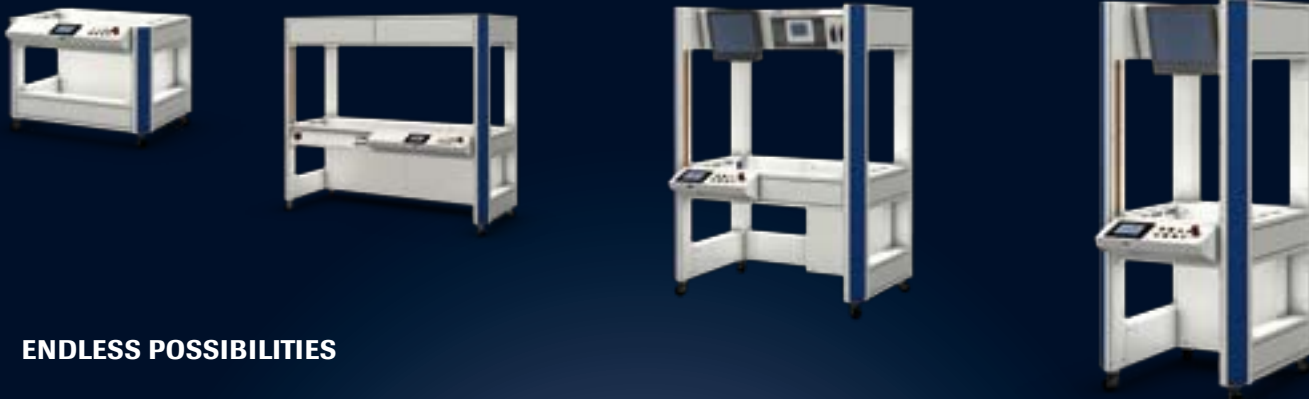
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The fleX-frame system



ENDLESS POSSIBILITIES

Many manufacturers of machines and applications today use aluminum profile technology for their products.

All these different profile based systems are designed around the extreme flexibility of these profiles. But at the same time, this advantage is also the biggest downside of these systems. The reason being is that you can imagine them equal to a skeleton – it carries the strain of mounted components, but doesn't add any further functionality to the system in itself. All components such as wiring or pneumatic ducts, etc. have to have mounting plates or additional attachment support.

häwa designed the fleX-frame system completely differently. It combines the flexibility of aluminum profiles with the advantages of standardized modules. The cabinet design modules are manufactured out of rugged steel, and allow the optimal implementation of your application paired with its own professional appearance – even for quantity ONE.

fleX-frame is not a fixed design, but rather a variable construction concept that continuously expands and evolves. The advantage is obvious: Maximum flexibility and perfect adaptation within a very short time period at the best price.

SYMBIOSIS

fleX-frame is designed to allow the combination with aluminum profiles. Many fleX-frame components provide direct mounting ability with different profiles. Furthermore the design allows for the accessories from many different profile manufacturers to be combined with the fleX-frame components. This widens the flexibility to use many different accessories for a diverse group of applications.

THE WELL-THOUGHT-OUT MACHINE FRAME

The fleX-frame concept is based on the principles: **Standardized and flexible!** Complex machine frames can be built out of very few components in a very short time period.

BENEFITS

- No stockpiling of materials
- No further machining of frames necessary
- Much shorter assembly times
- Installation can start parallel to the construction process
- Professional design and quality even with customized solutions
- Extensive range of accessories available



International patented-
and brand protected
European patent nr: 2124 3 02



MODULAR SINGLE CELLS

The design and manufacturing of single cells for e.g. test systems, assembly stations, or laser cells is very simple with fleX-frame. Within a very short time frame these cells are assembled and can be expanded and upgraded at any time.

Through additions of further fleX-frame components, widths from 600 to 3000 mm can be achieved. With the usage of additional vertical struts, the width can basically be expanded indefinitely. Multiple cells can be extended and combined to create complete facilities.

LINEAR APPLICATIONS

For the construction of linear applications, fleX-frame components are lined-up. This can be achieved with single and double elements.

ROTARY APPLICATIONS

Several options are available within fleX-frame for the design of rotary applications. 6- and 8-octagonal systems can be built.

PRO-X FOR HEAVY DUTY APPLICATIONS

For extreme dynamic and static loads, the PRO-X version of fleX-frame will be used.

Each component...

... is a supporting element

... is a duct channel

... is a pneumatic channel

... includes optimized properties

... is customizable to your wishes



Modular single cells

Modular single cells



Key features

- Ideal for the production of single cells, e.g.: manual assembly stations, test systems, or laser cells
- Low-cost standard solutions
- Easily expandable
- Full usability with extensions

Product Description

With just a few optimized components, customized solutions for your individual applications will be created.

All fleX-frame components are based on function

modules, as each component is a supporting element, a wire way, and a pneumatic channel. Each function module includes optimized features and can be adapted to your wishes.

- Select your width, height, and depth from the standard drawing supplied with values, or insert individual dimensions required for your application.
- On pages 8 and 9, individual applications can be drafted. Select the appropriate modules for level 1 to 3.
- For every component select color, material, and position. If, in level 2, the Control Panel Touch is selected for side A, this module will be on the front side, as shown in the drawing to your right (see marking **X**). Each side per level can only be occupied once.

Technical data

- Width = width of the component without vertical struts.
- Height = height of the vertical struts without feet.
- Depth = depth of the component without vertical struts.

Further technical information → on Page 7

Note

On the following pages you will find a selection of customer solutions that already have been designed. Talk to us about your specific requirements!

Accessories

- Accessories can be found on pages 28-35.

Modular single cells

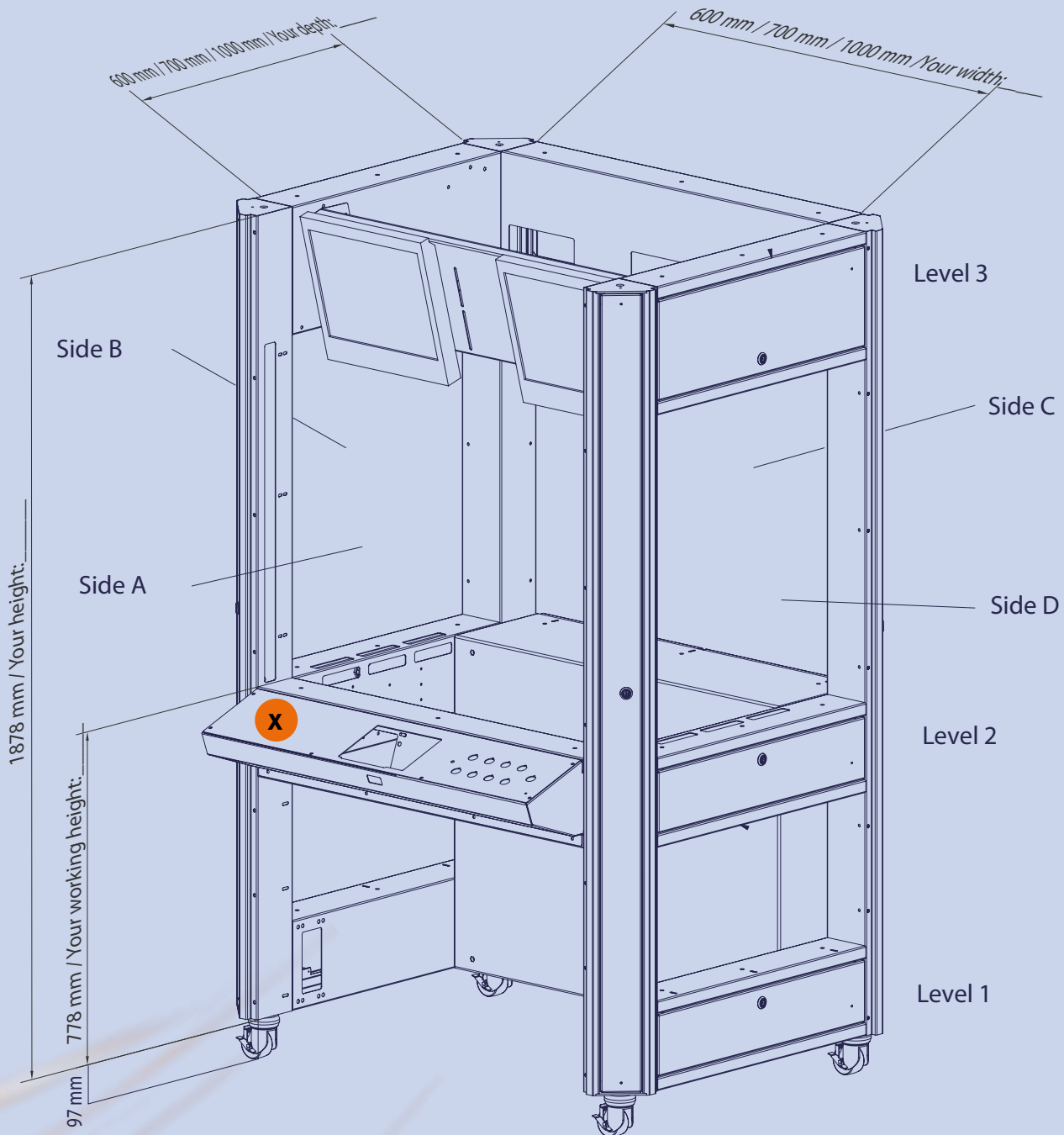
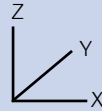
Technical information

Load:

Static

Dynamic

x (A;C) = ____ N; Y (B;D) = ____ N; Z = ____ N

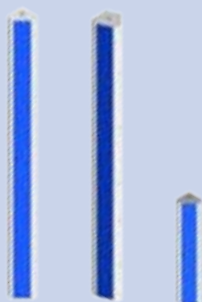


With rollers on request.

With adjustable feet.

Modular single cells

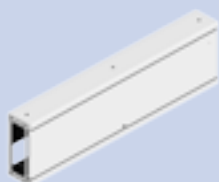
Vertical strut



Vertical strut → Page 24 - 25

- Material: Sheet steel
 Stainless steel
- Body color: RAL 9003
 Other: RAL _____
- Door color: RAL 5010
 Other: RAL _____
- Other: Without cut-out for light curtain.
 With cut-out for light curtain.
 Pro-X design

Level 1



Horizontal strut → Page 26

- Material: Sheet steel
 Stainless steel
- Color: RAL 9003
 Other: RAL _____
- Ausbrüche: Standard
 Cutouts according to your drawing.
- Position: Side A Side B
 Side C Side D
- Other: Pro-X design

Enclosure → Page 28

- Design: 1 wing door
 2 wing doors
- Height: 778 mm
(from level 1 to 2)
 1878 mm
(from level 1 to 3)
- Material: Sheet steel
 Stainless steel
- Cut-outs: Standard
 Cutouts according to your drawing.
- Color: RAL 9003
 Other: RAL _____
- Position: Side A Side B
 Side C Side D
- Other: Pro-X design

Level 2



Horizontal strut → Page 26

- Material: Sheet steel
 Stainless steel
- Color: RAL 9003
 Other: RAL _____
- Cut-outs: Standard
 Cutouts according to your drawing.
- Position: Side A Side B
 Side C Side D
- Other: Pro-X design

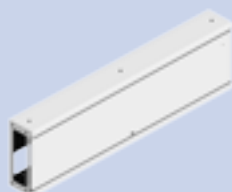
Touch control panel → Page 27

- Material: Sheet steel
 Stainless steel
- Color: RAL 9003
 Other: RAL _____
- Cut-outs: 9 holes, 22, 5 mm each + 1 x control panel (Siemens TP).
 Other _____
- Position: Side A Side B
 Side C Side D
- Other: Pro-X design

Keypad control panel → Page 27

- Material: Sheet steel
 Stainless steel
- Color: RAL 9003
 Other: RAL _____
- Cut-outs: 10 cut-outs, 22,5 mm
 Other _____
- Position: Side A Side B
 Side C Side D
- Other: Pro-X design

Level 3



Horizontal strut → Page 26

- Material: Steel sheet
 Stainless steel
- Color: RAL 9003
 Other: RAL _____
- Cut-outs: Standard
 Cutouts according to your drawing.
- Position: Side A Side B
 Side C Side D
- Other: Pro-X design

LCD monitor cover → Page 35

- Material: Steel sheet
 Stainless steel
- Color: RAL 9003
 Other: RAL _____
- Position: Side A Side B
 Side C Side D
- Other: Pro-X design

Door systems → Page 32-34

Finish	Side				Between levels		electrical	mecha-nical	contact-free
	A	B	C	D	1 & 2	2 & 3			
Pneumatic door system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manual vertical door system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manual horizontal swing door system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manual vertical swing door system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manual sliding door system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Light curtain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Cover plate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

Linear applications

Linear applications



Key Features

- Low-cost standard solutions
- Easily expandable
- Full usability with extensions

Product Description

With just a few optimized components, customized solutions for your individual applications will be created.

All fleX-frame components are based on function

modules, as each component is a supporting element, a wire way, and a pneumatic channel. Each function module includes optimized features and can be adapted to your wishes.

- Select your width, height, and depth from the standard drawing supplied with values, or insert individual dimensions required for your application.
- On pages 12 and 13, individual applications can be drafted. Select the appropriate modules for level 1 to 3.
- For every component select color, material, and position. If, in level 2, the Control Panel Touch is selected for side B, this module will be on the front side, as shown in the drawing to your right (see marking **X**). Each side per level can only be occupied once.

Technical data

- Width = width of the component without vertical struts.
- Height = height of the vertical strut without feet.
- Depth = depth of the component without vertical struts.

Further technical information

→ Page 11

Note

On the following pages you will find a selection of customer solutions that already have been designed. Linear applications consisting of more than 3 cells or L-forms are possible. Talk to us about your specific requirements!

Accessories

- Accessories can be found on pages 28-35

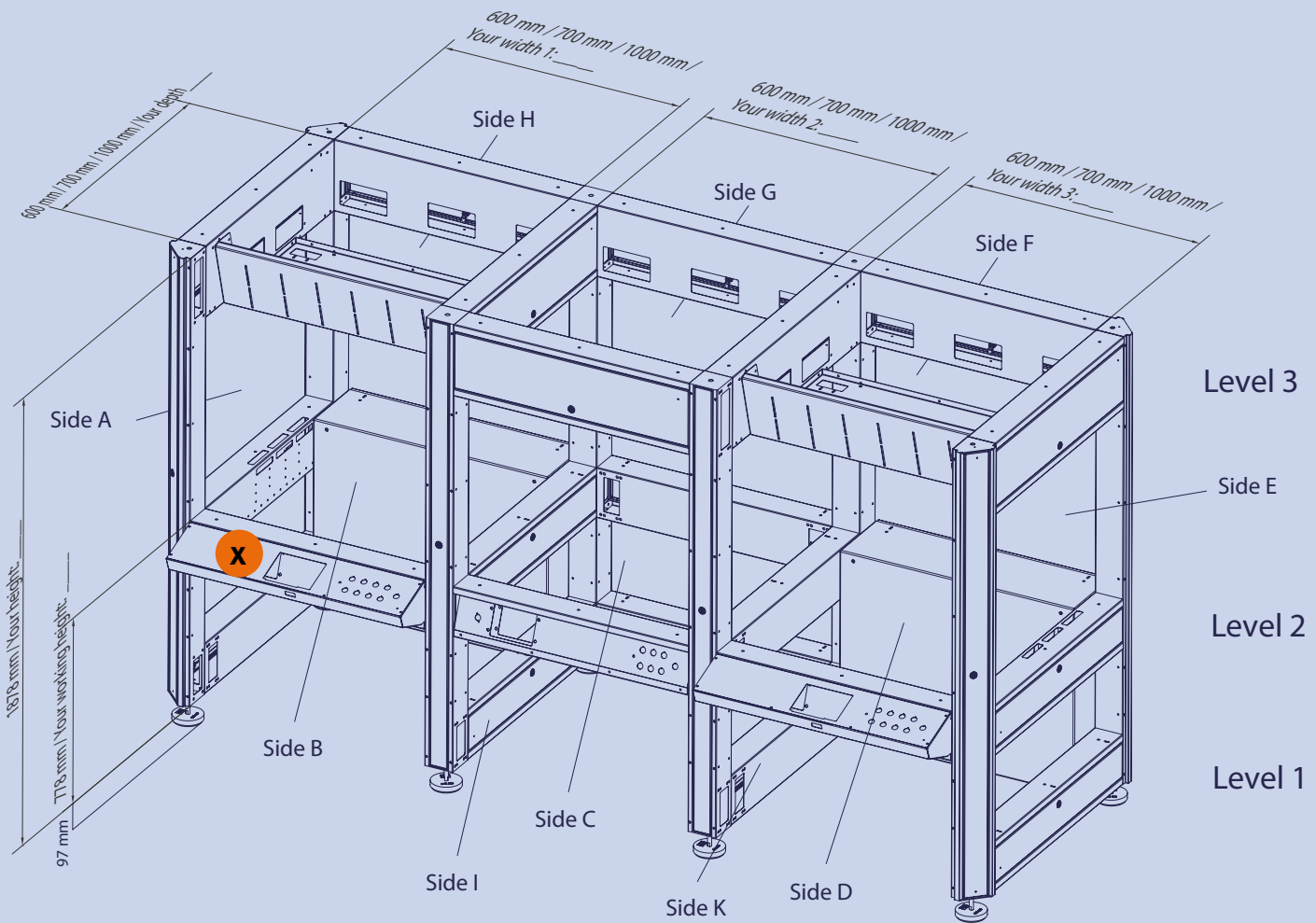
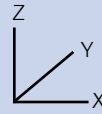
Technical information

Load:

Static

Dynamic

x (A:C) = ____ N; Y (B:D) = ____ N; Z = ____ N



With rollers on request.

With adjustable feet.

Linear applications

Vertical strut



Vertical strut → Page 24 - 25

- Material: Sheet steel.
 Stainless steel.
- Body color: RAL 9003.
 Other: RAL _____
- Door color: RAL 5010
 Other: RAL _____
- Other: Without cut-out for light curtain.
 With cut-out for light curtain.
 Pro-X design.

Level 1



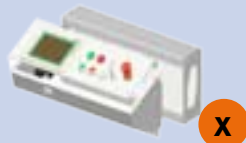
Horizontal strut → Page 26

- Material: Sheet steel
 Stainless steel
- Color: RAL 9003
 Other: RAL _____
- Cut-outs: Standard
 Cutouts according to your drawing
- Position: Side A
 Side B
 Side C
 Side D
 Side E
 Side F
 Side G
 Side H
 Side I
 Side K
- Other: Pro-X design

Enclosure → Page 28

- Design: 1 wing door
 2 wing doors
- Height: 778 mm
 (from level 1 to 2)
 1878 mm
 (from level 1 to 3)
- Material: Sheet steel
 Stainless steel
- Cut-outs: Standard
 Cutouts according to your drawing.
- Color: RAL 9003
 Other: RAL _____
- Position: Side A Side B
 Side C Side D
 Side E Side F
 Side G Side H
- Other: Pro-X design

Level 2



Horizontal struts → Page 26

- Material: Sheet steel
 Stainless steel
- Color: RAL 9003
 Other: RAL _____
- Cut-outs: Standard
 Cutouts according to your drawing.
- Position: Side A Side B
 Side C Side D
 Side E Side F
 Side G Side H
 Side I Side K
- Other: Pro-X design

Touch control panel → Page 27

- Material: Sheet steel
 Stainless steel
- Color: RAL 9003
 Other: RAL _____
- Cut-outs: Holes, 22, 5 mm
+ 1 control panel (Siemens TP).
 Other _____
- Position: Side A Side B
 Side C Side D
 Side E Side F
 Side G Side H
- Other: Pro-X design

Keypad control panel → Page 27

- Material: Sheet steel
 Stainless steel
- Color: RAL 9003
 Other: RAL _____
- Cut-outs: 10 holes,
22,5 mm
 Other _____
- Position: Side A Side B
 Side C Side D
 Side E Side F
 Side G Side H
- Other: Pro-X design

Level 3



Horizontal strut → Page 26

- Material: Steel sheet
 Stainless steel
- Color: RAL 9003
 Other: RAL _____
- Cut-outs: Standard
 Cutouts according to your drawing.
- Position: Side A Side B
 Side C Side D
 Side E Side F
 Side G Side H
 Side I Side K
- Other: Pro-X design

LCD monitor cover → Page 35

- Material: Steel sheet
 Stainless steel
- Color: RAL 9003
 Other: RAL _____
- Position: Side A Side B
 Side C Side D
 Side E Side F
 Side G Side H
- Other: Pro-X design

Door Systems & light curtain → Page 32-34

Finish	Sides								Between levels		electrical	mechanical	contact-free
	A	B	C	D	E	F	G	H	1 & 2	2 & 3			
Pneumatic door system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manual vertical door system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manual horizontal swing door system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manual vertical swing door system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manual sliding door system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Light curtain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Cover plate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			13

Rotary applications

Hexagonal rotary applications



Key features

- Low-cost standard solutions
- Easily expandable
- Full usability with extensions

Product Description

With just a few optimized components, customized solutions for your individual applications will be created.

All fleX-frame components are based on function

modules, as each component is a supporting element, a wire way, and a pneumatic channel. Each function module includes optimized features and can be adapted to your wishes.

- Select your width, height, and depth from the standard drawing supplied with values, or insert individual dimensions required for your application.
- On pages 16 and 17, individual applications can be drafted. Select the appropriate modules for level 1 to 3.
- For every component select color, material, and position. If, in level 2, the Control Panel Touch is selected for side A, this module will be on the front side, as shown in the drawing to your right (see marking **X**). Each side per

level can only be occupied once.

Technical data

- Width = width of the component, without vertical strut.
- Height = height of the vertical strut, without feet.

Further technical information

→ Page 15

Note

On the following pages you will find a selection of customer solutions that already have been designed. Talk to us about your specific requirements!

Accessories

- Accessories can be found on pages 28-35.

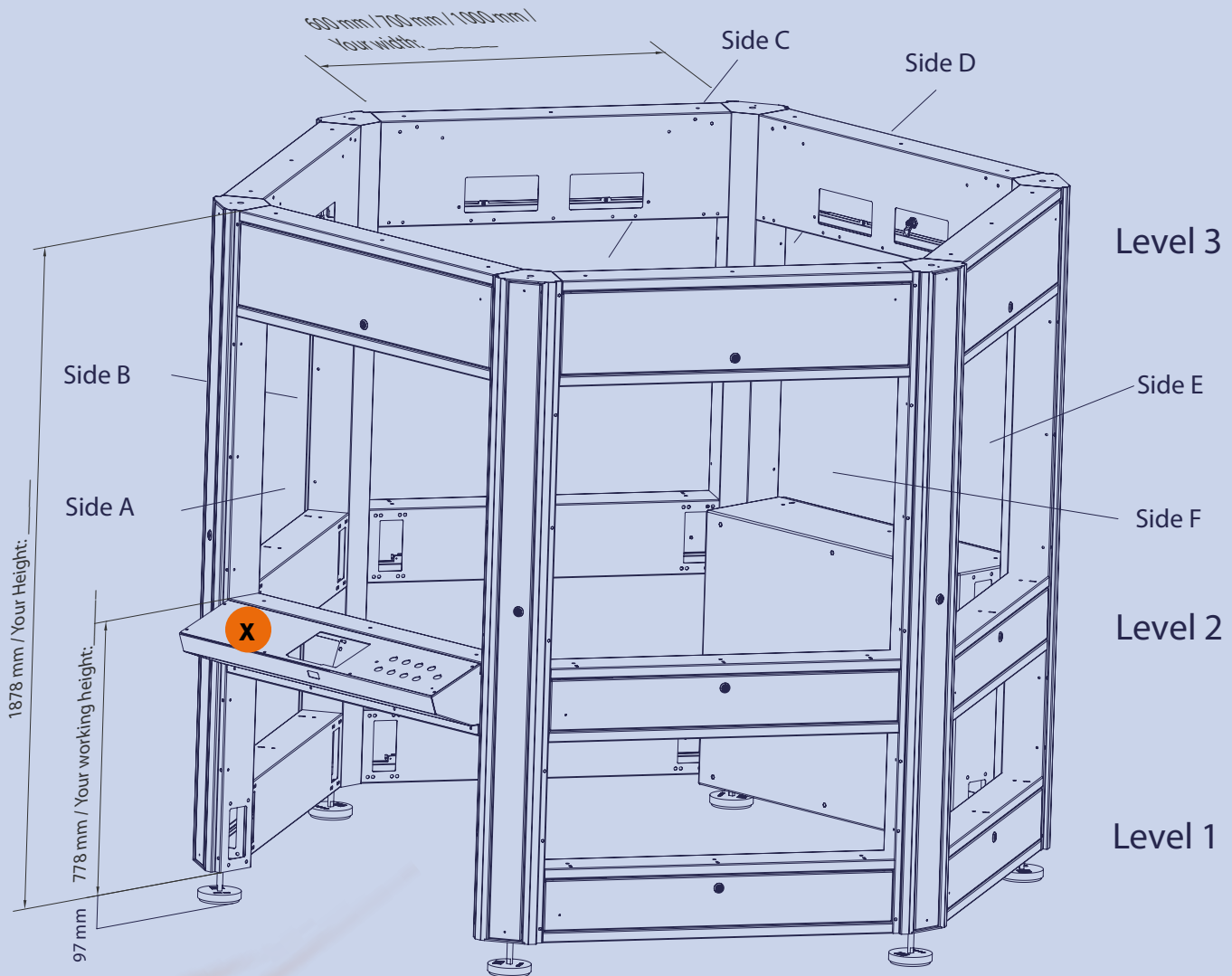
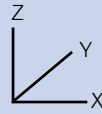
Technical information

Load:

Static

Dynamic

x (A;C) = ___ N; Y (B;D) = ___ N; Z = ___ N

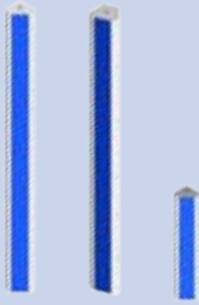


With rollers on request.

With adjustable feet.

Rotary applications

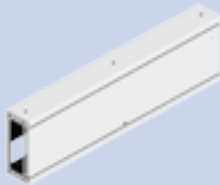
Vertical struts



Vertical strut → Page 24 - 25

- Material: Sheet steel.
 Stainless steel.
- Body color: RAL 9003
 Other: RAL _____
- Door colors: RAL 5010
 Other: RAL _____
- Other: Without cut-outs for light curtain.
 With cut-outs for light curtain.
 Pro-X design.

Level 1



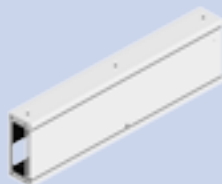
Horizontal strut → Page 26

- Material: Sheet steel.
 Stainless steel.
- Color: RAL 9003
 Other: RAL _____
- Cut-outs: Standard
 Cutouts according to your drawing.
- Position: Side A
 Side B
 Side C
 Side D
 Side E
 Side F
- Other: Pro-X design.

Enclosure → Page 28

- Design: 1 wing door
 2 wing door
- Height: 778 mm
 (from level 1 to 2)
 1878 mm
 (from level 1 to 3)
- Material: Steel sheet
 Stainless steel
- Cut-outs: Standard
 Cutouts according to your drawing.
- Color: RAL 9003
 Other: RAL _____
- Position: Side A Side B
 Side C Side D
 Side E Side F
- Other: Pro-X design

Level 2



Horizontal strut → Page 26

- Material: Sheet steel
 Stainless steel
- Color: RAL 9003
 andere: RAL _____
- Cut-outs: Standard
 Cutouts according to your drawing.
- Position: Side A Side B
 Side C Side D
 Side E Side F
- Other: Pro-X design

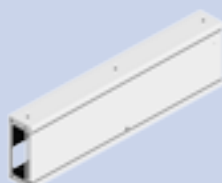
Touch control panel → Page 27

- Material: Sheet steel
 Stainless steel
- Color: RAL 9003
 andere: RAL _____
- Cut-outs: 9 Holes, 22, 5 mm + 1 control panel (Siemens TP)
 Other _____
- Position: Side A Side B
 Side C Side D
 Side E Side F
- Other: Pro-X design

Keypad control panel → Page 27

- Material: Sheet steel
 Stainless steel
- Color: RAL 9003
 andere: RAL _____
- Cut-outs: 10 holes, 22,5 mm
 Other _____
- Position: Side A Side B
 Side C Side D
 Side E Side F
- Other: Pro-X design

Ebene 3



Horizontal strut → Page 26

- Material: Sheet steel
 Stainless steel
- Color: RAL 9003
 Other: RAL _____
- Cut-outs: Standard
 Cutouts according to your drawing.
- Position: Side A Side B
 Side C Side D
 Side E Side F
- Other: Pro-X design

LCD monitor cover → Page 35

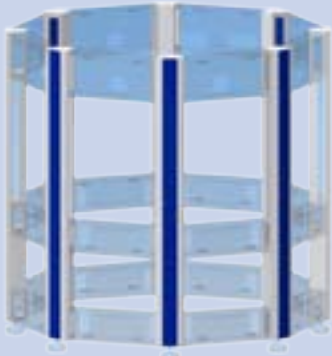
- Material: Sheet steel
 Stainless steel
- Color: RAL 9003
 Other: RAL _____
- Position: Side A Side B
 Side C Side D
 Side E Side F
- Other: Pro-X design

Door Systems & light curtains → Page 32-34

Finish	Side						Between levels		electrical	mecha- nical	contact free
	A	B	C	D	E	F	1 & 2	2 & 3			
Pneumatic door system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Manual vertical door system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Manual horizontal swing door system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Manual vertical swing door system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Manual sliding door system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Light curtain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Cover plate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		17	

Rotary applications

Octagonal rotary applications



Key features

- Low-cost standard solutions
- Easily expandable
- Full usability with extensions

Product Description

With just a few optimized components, customized solutions for your individual applications will be created.

All flex-frame components are based on function

modules, as each component is a supporting element, a wire way, and a pneumatic channel. Each function module includes optimized features and can be adapted to your wishes.

- Select your width, height, and depth from the standard drawing supplied with values, or insert individual dimensions required for your application.
- On pages 20 and 21, individual applications can be drafted. Select the appropriate modules for level 1 to 3.
- For every component select color, material, and position. If, in level 2, the Control Panel Touch is selected for side A, this module will be on the front side, as shown in the drawing to your right (see marking **X**). Each side per level can only be occupied once.

Technical data

- Width = width of the components, without vertical struts.
- Height = height of the vertical struts, without feet.

Other technical information

→ Page 19

Note

On the following pages you will find a selection of customer solutions that already have been designed. Talk to us about your specific requirements!

Accessories

- Accessories can be found on pages 28-35.

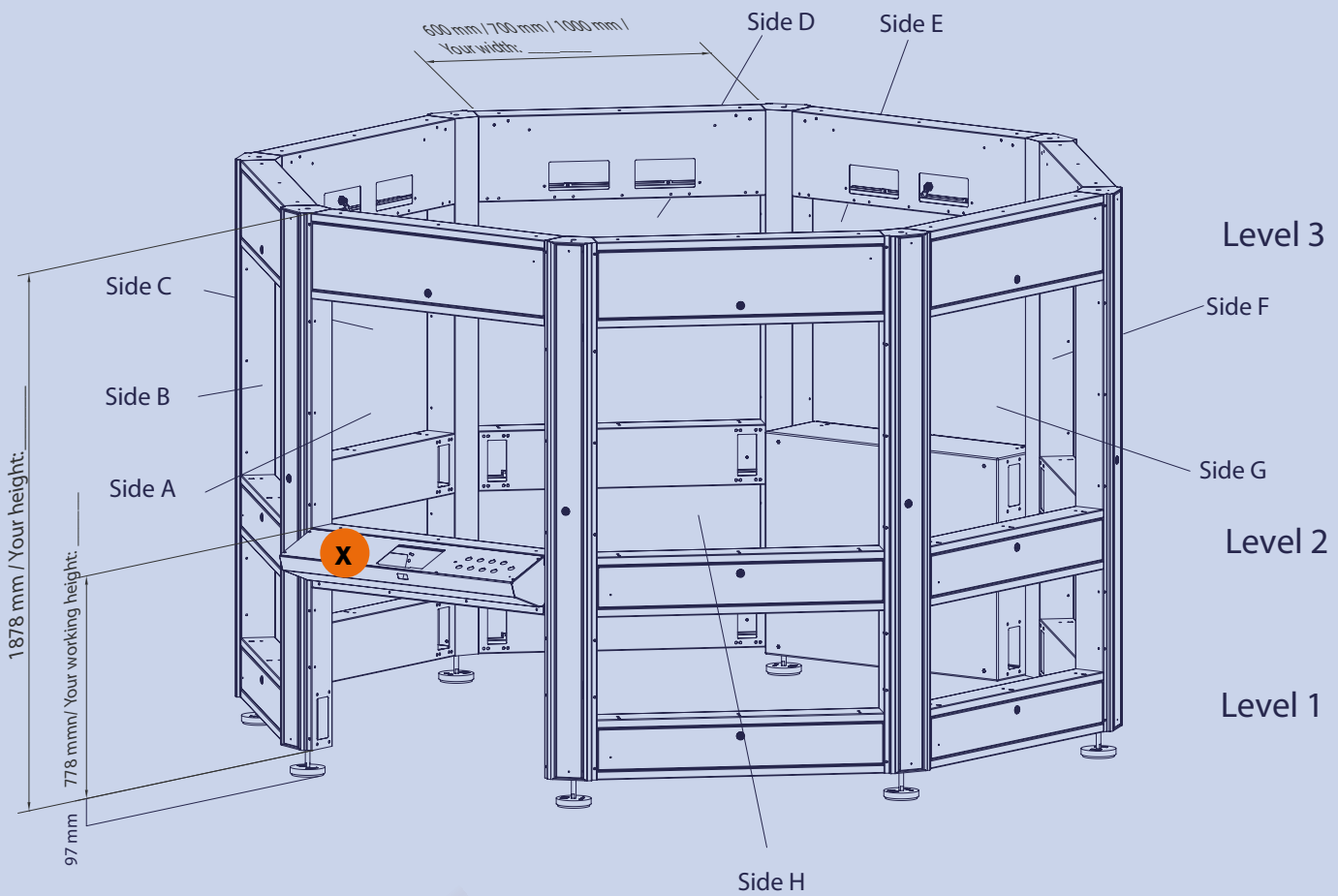
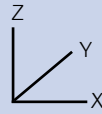
Technical information

Load:

Static

Dynamic

x (A;C) = ____ N; Y (B;D) = ____ N; Z = ____ N

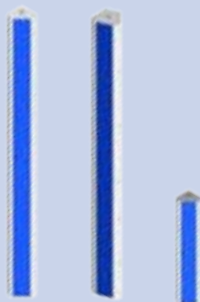


With rollers on request.

With adjustable feet.

Rotary applications

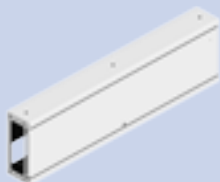
Vertical struts



Vertical strut → Page 24 - 25

- Material: Sheet steel
 Stainless steel
- Body color: RAL 9003
 Other: RAL _____
- Door color: RAL 5010
 Other: RAL _____
- Other: Without cut-out for light curtain and door systems.
 With cut-out for light curtain and door systems.
 Pro-X design.

Level 1



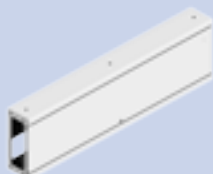
Horizontal struts → Page 26

- Material: Steel sheet
 Stainless steel
- Color: RAL 9003
 Other: RAL _____
- Cut-outs: Standard
 Cutouts according to your drawing.
- Position: Side A
 Side B
 Side C
 Side D
 Side E
 Side F
 Side G
 Side H
- Other: Pro-X design.

Enclosure → Page 28

- Design: 1 wing door
 1 wing door
- Height: 778 mm
 (from level 1 to 2)
 1878 mm
 (from level 1 to 3)
- Material: Sheet steel
 Stainless steel
- Out-outs: Standard
 Cutouts according to your drawing.
- Color: RAL 9003
 Other: RAL _____
- Position: Side A Side B
 Side C Side D
 Side E Side F
 Side G Side H
- Other: Pro-X design.

Level 2



Horizontal strut → Page 26

- Material: Sheet steel
 Stainless steel
- Color: RAL 9003
 Other: RAL _____
- Cut-outs: Standard
 Cutouts according to your drawing.
- Position: Side A Side B
 Side C Side D
 Side E Side F
 Side G Side H
- Other: Pro-X design

Touch panel → Page 27

- Material: Sheet steel
 Stainless steel
- Color: RAL 9003
 Other: RAL _____
- Cut-outs: 9 Holes, 22, 5 mm + 1 control panel (Siemens TP)
 Other _____
- Position: Side A Side B
 Side C Side D
 Side E Side F
 Side G Side H
- Other: Pro-X design

Key panel → Page 27

- Material: Sheet steel
 Stainless steel
- Color: RAL 9003
 Other: RAL _____
- Cut-outs: 10 cut-outs, 22,5 mm
 Other _____
- Position: Side A Side B
 Side C Side D
 Side E Side F
 Side G Side H
- Other: Pro-X design

Level 3



Horizontal strut → Page 26

- Material: Sheet steel
 Stainless steel
- Color: RAL 9003
 Other: RAL _____
- Cut-outs: Standard
 Cutouts according to your drawing.
- Position: Side A Side B
 Side C Side D
 Side E Side F
 Side G Side H
- Other: Pro-X design

LCD monitor cover → Page 35

- Material: Sheet steel
 Stainless steel
- Color: RAL 9003
 Other: RAL _____
- Position: Side A Side B
 Side C Side D
 Side E Side F
 Side G Side H
- Other: Pro-X design

Door Systems & light curtains → Page 32-34

Finish	Side								Between levels		electrical	mechanical	contact-free
	A	B	C	D	E	F	G	H	1 & 2	2 & 3			
Pneumatic door system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manual vertical door system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manual horizontal swing door system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manual vertical swing door system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manual sliding door system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Light curtain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Cover plate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			21

Components

YOUR FAVORITE X-FRAME

Due to the modular, object-oriented design and the variability within the fleX-frame system, it can easily be expanded in all directions. Based on the fleX-frame components, it allows the design of customized solutions at the very best price point. The result is a solutions tailored to your needs. Corporate identity – even with quantity ONE. häwa will gladly assist in designing your solution!

VERTICAL STRUTS



For the construction of applications, vertical struts are required. Please note, that the struts are available in different designs and finishes. We distinguish between struts with and without cut-outs for light curtains or door systems.

HORIZONTAL STRUTS



Horizontal struts serve to connect the vertical struts. All struts are constructed with a lid and quick release. Two different types are distinguished: Horizontal struts with a height of 210 mm are used on level 1 and 2, and horizontal struts with a height of 300 mm, to be used on level 3.

CONTROL ELEMENTS



häwa offers several fleX-frame operating systems. These control systems follow the design and requirements of the application. In this catalog we feature control panels with 2 or 3 components. The horizontal strut, the front panel, and depending on the application, an enclosure. Your design options here are endless – häwa will gladly make the cut-outs to your specifications.

SWITCH CABINETS / ENCLOSURES



häwa enclosures blend seamlessly into the system. Cables can enter through 4 or 5 different openings per side. Special attention was paid to position 2 of these openings per side exactly in line with the mounting plate, so that the cables can run directly into the wire duct channel inside the enclosure.

ENCLOSURE ACCESSORIES



Different accessories for excess heat removal and locking options.

Additional climate control options and enclosure accessories can be found in the catalogs "Enclosures" and "Climate Control".

PENDENT ARM SYSTEMS



Pendant arm systems for the fleX-frame system.

Additional pendant arm systems can be found in the häwa catalog "Pendant arm systems & control enclosures".

EXTERNAL ACCESSORIES



In this catalog you will find a selection of external accessories like different door systems and light curtains. We will gladly deliver your solutions fully assembled with your selected accessories.

ACCESSORIES



Here you will find additional accessories, like e.g. mounting systems for monitors.

CHOICES OF COLOR

fleX-frame offers customized color solutions

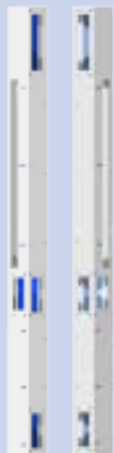
fleX-frame powder-coating is standard in the RAL colors 9003 and 5010, but customizations with the colors of your choice are possible.

fleX-frame is also offered in stainless steel.



Vertical struts

Vertical angle strut 90°



Key features

- For rectangular applications
- In sturdy sheet steel or stainless steel
- Cut-outs for casters, support feet, and lifting lugs already integrated

Product Description

90° vertical strut with or without cut-out for light curtain and integrated door system. Short strut (778 mm height) is suitable for hand- and table applications.

Options:

- With cut-outs for light curtain and integrated door system left (see picture)
- With cut-outs for light curtain and integrated door system right (see picture)
- Without cut-outs for light curtain and integrated door system

Designation	Dimensions (WxHxD)		Design	Art. No.
	mm	inch		
Vertical angle strut 90°	134 x 1878 x 134	5.28 x 73.94 x 5.28	without cut-out	201002
	134 x 1878 x 134	5.28 x 73.94 x 5.28	with cut-out left	201012
	134 x 1878 x 134	5.28 x 73.94 x 5.28	with cut-out right	201013
	134 x 778 x 134	5.28 x 30.36 x 5.28	without cut-out	201018

Vertical strut 90° and 180° (for linear applications)



Key features

- For extending linear applications
- In sturdy sheet steel or stainless steel
- Cut-outs for casters, support feet, and lifting lugs already integrated

Product Description

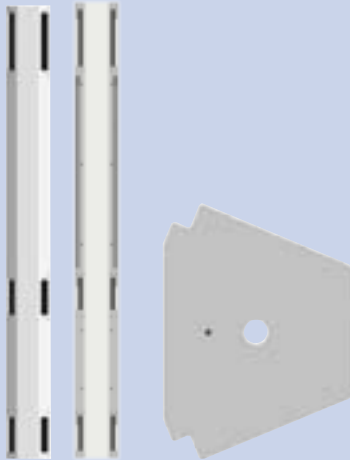
90° and 180° vertical strut; light-proof design. With or without cut-out for light curtain and integrated door system. Used as connection between modules.

Options:

- With cut-outs for light curtain and integrated door system
- Without cut-outs for light curtain and integrated door system (see picture)

Designation	Dimensions (WxHxD)		Design	Art. No.
	mm	inch		
Vertical strut 90° and 180°	196 x 1878 x 138	7.72 x 73.94 x 5.43	without cut-out	201005
	196 x 1878 x 138	7.72 x 73.94 x 5.43	with 2 cut-outs	201017

Vertical angle strut 45° (for rotary applications)



Key features

- For construction of octagonal systems
- In sturdy sheet steel or stainless steel
- Cut-outs for casters, support feet, and lifting lugs already integrated

Product Description

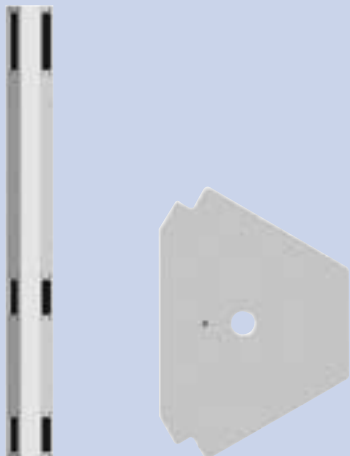
45° vertical strut; light-proof design. Strut with or without cut-out for light curtain and integrated door system. Suitable for octagonal applications.

Options:

- With cut-outs for light curtain and integrated door system (see picture)
- Without cut-outs for light curtain and integrated door system (see picture)

Designation	Dimensions (WxHxD)		Design	Art. No.
	mm	inch		
Vertical angle strut 45°	138 x 1878 x 138	5.43 x 73.94 x 5.43	without cut-out	201003
	138 x 1878 x 138	5.43 x 73.94 x 5.43	with 2 cut-outs	201015

Vertical angle strut 60° (for rotary applications)



Key features

- For construction of hexagonal systems
- In sturdy sheet steel or stainless steel
- Cut-outs for casters, support feet, and lifting lugs already integrated

Product Description

60° vertical strut; light-proof design. Strut with or without cut-out for light curtain and integrated door system. Suitable for hexagonal applications.

Options:

- With cut-outs for light curtain and integrated door system.
- Without cut-outs for light curtain and integrated door system (see picture)

Designation	Dimensions (WxHxD)		Design	Art. No.
	mm	inch		
Vertical angle strut 60°	196 x 1878 x 138	5.43 x 73.94 x 5.43	without cut-out	201004
	196 x 1878 x 138	5.43 x 73.94 x 5.43	with 2 cut-outs	201016

Horizontal struts

Horizontal strut level 1 & 2



Key Features

- For connecting the vertical struts
- With cover and snap-in locking
- In sturdy sheet steel or stainless steel
- To be used for bottom and middle levels

Product Description

This strut can be incorporated in the lower and middle levels. The strut can be turned to accommodate cover opening position upwards or downwards. With two cut-outs in back side.

Accessories

- Dummy panels → page 35

Designation	Dimensions (WxHxD)		Art. No.
	mm	inch	
Horizontal strut level 1 & 2	600 x 210 x 120	23.62x 8.27 x 4.72	201021
	700 x 210 x 120	27.56 x 8.27 x 4.72	201025
	1.000 x 210 x 120	39.37 x 8.27 x 4.72	201031

Horizontal strut level 3



Key features

- For connecting the vertical struts
- Additional cut-outs for positioning additional components
- In sturdy sheet steel or stainless steel
- To be used for upper level

Options

- With one cut-out
- With two cut-outs
- With three cut-outs

Accessories

- Dummy panels → page 35

Product Description

This strut is designed for the upper level. Large cut-outs allow for ample access to upper level.

Designation	Dimensions (WxHxD)		Design	Art. No.
	mm	inch		
Horizontal strut level 3	600 x 300 x 120	23.62x 11.81 x 4.72	2 cut-outs	201020
	700 x 300 x 120	27.56 x 11.81 x 4.72	1 cut-out	201028
	1.000 x 300 x 120	39.37 x 11.81 x 4.72	3 cut-outs	201030

Control Panel Touch



Key features

- Consists of a horizontal strut, a case, and a front panel.
- Front panel with 9 x 22.5 mm cut-outs for push buttons and one cut-out for HMI (Siemens TP)
- Case with cut-out for API
- In sturdy sheet steel or stainless steel
- To be used in middle level

Product Description

Control panel with integrated horizontal strut. Panel with 9 x 22.5 mm cut-outs for push buttons and a touch panel (type Siemens TP). Programming gateway externally accessible.

Designation	Dimensions (WxHxD)		Art. No.
	mm	inch	
Control Panel Touch	600 x 210 x 309	23.62x 8.27 x 12.17	201023
	1.000 x 210 x 309	39.37 x 8.27 x 12.17	201033

Control Panel Push



Key features

- Consists of a horizontal strut and a front panel.
- Front panel with 10 x 22.5 mm cut-outs for push buttons
- In sturdy sheet steel or stainless steel
- To be used in middle level

Product Description

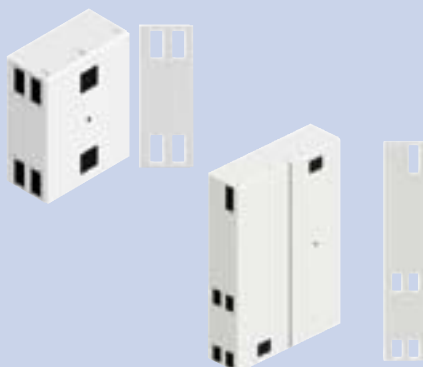
Control panel with integrated horizontal strut. Panel with 10 x 22.5 mm cut-outs for push buttons. With integrated opening to exchange defective parts.

Designation	Dimensions (WxHxD)		Art. No.
	mm	inch	
Control Panel Push	600 x 210 x 120	23.62x 8.27 x 4.72	201029
	1.000 x 210 x 120	39.37 x 8.27 x 4.72	201032

Switch Cabinets/Enclosures

Enclosure accessories

Enclosures



Key Features

- Cable insertion through 4 or 5 cut-outs per side
- In sturdy sheet steel or stainless steel

Product Description

Control panel with 4 or 5 per side. Single- or double- door design; with cut-out for filter fan and diagram pocket. With integrated mounting plate.

Reference

More cabinets and enclosures can be found in the häwa cabinet and enclosure catalogs.

Designation	Dimensions (WxHxD)		Design	Art. No.
	mm	inch		
Enclosures	600 x 778 x 300	23.62 x 30.63 x 11.81	4 Cut-outs; 1 door	201102
	1.000 x 778 x 300	30.37 x 30.63 x 11.81	4 Cut-outs; double doors	201103
	1.000 x 1.878 x 300	39.37 x 73.94 x 11.81	5 Cut-outs; double doors	201104

Latch locks, completely pre-mounted



Key features

- Latch lock complete with gasketing, not installed

Product Description

- Locking height 18 mm
- Closing path: 90°, 12-9 clock position
- Latch length L = 45 mm
- For right-hinged doors, but easily convertible for left-hinged doors
- Easy installation without disassembly

Scope of delivery

- 1 latch lock with fastening nut

Note

By rotating the latch 90° it is suitable for left-hinged doors

Lock	Art. No.			
	Chrome plated die L = 45 mm	Zinc die, black L = 45 mm	Stainless steel sheer L = 45 mm	Synthetic, black L = 45 mm
6 mm square	3070-7504-11-00	3070-7504-11-01	3070-7504-11-05	
7mm square	3070-7504-12-00	3070-7504-12-01	3070-7504-12-05	3070-7504-12-03
8 mm square	3070-7504-13-00	3070-7504-13-01	3070-7504-13-05	3070-7504-13-03
3mm double-bit	3070-7504-14-00	3070-7504-14-01	3070-7504-14-05	3070-7504-14-03
5 mm double-bit	3070-7504-18-00	3070-7504-18-01	3070-7504-18-05	3070-7504-18-03
Daimler-Benz	3070-7504-16-00	3070-7504-16-01	3070-7504-16-05	3070-7504-16-03
7 mm triangular	3070-7504-17-00	3070-7504-17-01	3070-7504-17-05	3070-7504-17-03
8 mm triangular	3070-7504-15-00	3070-7504-15-01	3070-7504-15-05	3070-7504-15-03
Slot 2 mm	3070-7504-19-00	3070-7504-19-01	3070-7504-19-05	3070-7504-19-03
T- handle				3070-7504-73-03
Star grip				3070-7504-84-03

Compact handle



Key features

- For safe locking of enclosure – installation without additional drilling
- Easy installation in existing cut-out of latch lock

Product Description

Compact handle equipped for key lock insert

- Side-ward key insertion – minimizes risk of breakage
- Vandalism-proof
- Protection class: IP55 / NEMA 12

Technical Data

The hawa compact handle accommodates the following key lock inserts:

- all per DIN 18252:2006-12 with dimension A = 30 mm – equivalent to overall length of 40 mm +/- 1, R15
- 8-way adjustable locking thumb.

- fixed locking thumb, between 3 and 5 o'clock locking position
- Various models from leading manufacturers. Locking systems examples: VW E1 E17; Ronis ACE and special lock EDF; Southco standard lock for example CH 751; Siemens E012; Lowe Locks 92 series; Spain special lock 220 and 221; No. Japan. 0200; standard locks from Emka and DIRAK.

Scope of delivery

- 1 compact handle.

Reference

Maximum achievable protection after installation: IP65.

Accessories

- Key lock insert → below

Designation	Art. No.
Compact handle	3070-0908-00-01

Key Lock Insert



Product Description

Key lock insert from die-cast zinc, chrome-plated, alternatively with nickel-plated brass, suitable for compact handle. Lock key 1333, only removable in locked position.

- Fixation with only one screw
- Self-locking

Scope of delivery

- 1 key lock insert

Suitable for

hawa compact handle

Note

Fixing screws included in delivery of the compact handle

Designation	Lock	Art. No.
Key Lock Insert	7 mm square	3070-0900-12-00
	8 mm square	3070-0900-13-00
	3 mm double-bit	3070-0900-14-00
	5 mm double-bit	3070-0900-18-00
	Daimler-Benz	3070-0900-16-00
	1333	3070-0933-30-00

Enclosure accessories

Fix-Filter Fan FL1



Key features

- Low profile; grill on outside is only 4-6 mm
- Easy installation & maintenance

Product Description

Foamed gasket ensures rating of IP44 / IP54 (with G4 filter mat). Easy changing of mats from outside

- Snap-in assembly with safe stop through integrated V2A springs
- No additional screw-fixing necessary

Technical Data

- Airflow:
 - Unimpeded flow (50/60Hz): 160/180 m³/h / 94/105 cfm
 - with filter pad G3 (50/60Hz): 40/43 m³/h / 24/27 cfm
 - with filter pad G4 (50/60Hz): 26/30 m³/h / 16/18 cfm
 - G3 w/o F (50/60Hz): 42/47 m³/h / 25/28 cfm (refers to exhaust filter without pad)
- Motor connection: flat pin 2.8 x 0.5 (24VDC: 300 mm wires)
- Material: PC/ABS; RAL 7035; self-extinguishing UL94 V-0

- Protection Class: IP44 / IP54
- Certification: CE, UL
- Noise level: 50Hz – 46 dB(A); 60Hz – 50 dB(A)
- Temperature range: -10 to 55 °C / 14 to 131 °F

More technical information is available in the häwa climate control catalog.

Scope of delivery

- 1 piece.
- filter pad G3

Note

Airflow data applies to filter fan and exhaust filters of equal size and with same filter pad.

Accessories

- Exhaust filter AF1 → See below
- Connection cable for motor → See below


Designation	Color	Weight		Voltage	frequency	Power consumption	Art. No.
		kg	lbs				
Fix-Filter Fan FL1	RAL 7035	0,72	1,59	230 AC	50/60	19 W 230 V/AC/50 Hz 15 W 230 V/AC/60 Hz	3159-0128-23-71
	RAL 7035	0,72	1,59	115 AC	50/60	19 W 115 V/AC/50 Hz 15 W 115 V/AC/60 Hz	3159-0128-11-71
	RAL 7035	0,72	1,59	24 DC		7,4 W 24 V/DC	3159-0128-24-71

Accessories

Exhaust filter AF1

	Weight		Color	Art. No.
	kg	lbs		
	0,12	0,26	RAL 7035	3159-0128-00-71

Connection cable for motor

	Description	Design	Length	Art. No.
			m	
	With molded connectors, PVC, black.	2-pole	1	3140-0000-01-00
	Customized cable with completely insulated faston connectors 2.8 x 0.5 and earthing wire, with ring cable lug.	3-pole	3	3140-0000-03-00

More thermo components, such as heaters, heat exchangers, cooling devices, thermostats etc. can be found in the häwa Thermo components catalog.

Mounting arm system



Product Description
Mounting arm to incorporate control unit, LCD monitor and keyboard.

Designation	Art. No.
Mounting arm system	201051

Mounting arm for control enclosures



Product Description
Articulated arm for incorporating control enclosures.

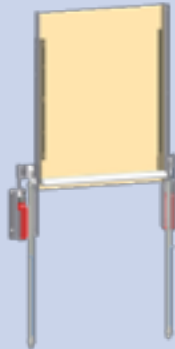
Note
More mounting arm systems can be found in the häwa Mounting arm systems- and Control enclosures catalog.

Designation	Art. No.
Mounting arm for control enclosures	201053

More mounting arms systems can be found in the häwa Mounting arms systems- and Control enclosures catalog.

External accessories

Pneumatic door systems



Key features

- Pneumatic door systems automatically lift and lower the operating doors

Product Description

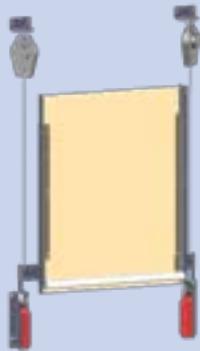
Pneumatic door system available with different locks. Pneumatic actuation is carried out via ISO cylinders. The assemble includes the complete door system with cylinders, but not the control and the door switch. Suitable for door systems for up to 2000 mm / 79" width.

Note

Pay attention when selecting the appropriate vertical struts. Struts are designed to work with door systems from the Cirris Solutions GmbH.

Designation	Design	Art. No.
Pneumatic door systems	electrical lock	202002
	mechanical latch	202004
	contact-free	202003

Manuel vertical door systems



Key features

- In contrast to the pneumatic door systems, the manual door system uses springs instead of pneumatic cylinders.

Product description

Manual door system with spring as weight balance. Equipped for limit switch systems. Locking pin for shipping included. Standard maximum door width 2000 mm.

Note

Pay attention when selecting the appropriate vertical struts. Struts are designed to work with door systems from the Cirris Solutions GmbH.

Designation	Design	Art. No.
Manuel vertical door systems	electrical lock	202022
	mechanical latch	202024
	contact-free	202023

Manuel horizontal swing door systems



Key features

- Highly suitable as service doors.
- For occasional activity.
- 3 massive metal hinges included.

Product description

Manual swing door system. Equipped for limit switch systems. Magnet included. Standard maximum door width 1000 mm.

Note

This door system can be mounted on any vertical strut at any stage.

Designation	Design	Art. No.
Manual horizontal swing door systems	electrical lock	202062
	mechanical latch	202064
	contact-free	202063

Manuel vertical swing door systems



Key features

- Door opening angle rests outside application workspace.

Product description

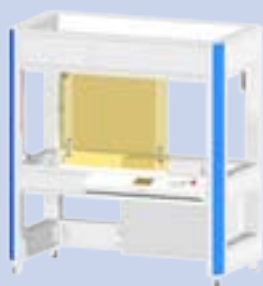
Manual vertical swing door system. Equipped for limit switch systems. Standard maximum door width 1000 mm.

Note

Door opens to half of the size of the body outwards. Pay attention to select appropriate vertical struts. The struts are constructed for Cirris Solutions GmbH door systems.

Designation	Design	Art. No.
Manual vertical swing door systems	electrical lock	202102
	mechanical latch	202104
	contact-free	202103

Manuel sliding door systems



Product description

Manual horizontal sliding door system consisting of 2 pieces. Equipped for limit switch systems. Standard maximum door width 2000 mm.

Note

Pay attention when selecting the appropriate vertical struts. Struts are designed to work with door systems from the Cirris Solutions GmbH.

Designation	Design	Art. No.
Manual sliding door systems	electrical lock	202082
	mechanical latch	202084
	contact-free	202083

External accessories

Light curtain mounting



Product description

Mounting kit for mounting a light curtain, consisting of the required angles and bolts.

Note

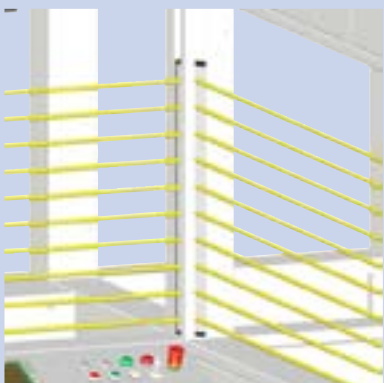
Pay attention to select the appropriate vertical struts!

The struts are constructed for mounting kits, like example some of „Sick“ and „Wenglor“.

We are happy to assist you in selecting a suitable light curtain.

Designation	Design	Art. No.
Light curtain mounting	to attach a Sick light curtain	202121
	to attach a Wenglor light curtain	202131

Corner mirror for light curtain



Product description

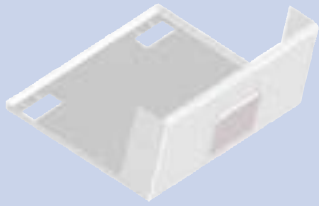
Corner mirror to redirect a light curtain 90°, including all fasteners and screws.

Note

Pay attention to select the appropriate vertical struts! The struts are constructed for corner mirrors, like some of „Sick“ and „Wenglor“.

Designation	Art. No.
Corner mirror for light curtain	202141

LCD monitor cover



Key features

- To incorporate monitors, test systems, lighting and accessories.

Product description

Cover made from steel sheet for level 3 with mounting kit for LCD monitors.

Designation	Width		Design	Art. No.
	mm	inch		
LCD monitor cover	600	23.62	for one LCD monitor	211112
	1000	39.37	for two LCD monitors	201113

Casters with locking brake



Key Features

- Caster with locking brake; load per caster approx. 160 kg / 353 lbs.

Designation	Art. No.
Casters with locking brake	5706-1200-00-000

Leveling feet M16



Key Features

- Leveling foot with anti-slip and cushioning base; load per leveling foot approx. 1600 kg / 3527 lbs.

Designation	Art. No.
Leveling feet M16	5706-1104-16-125

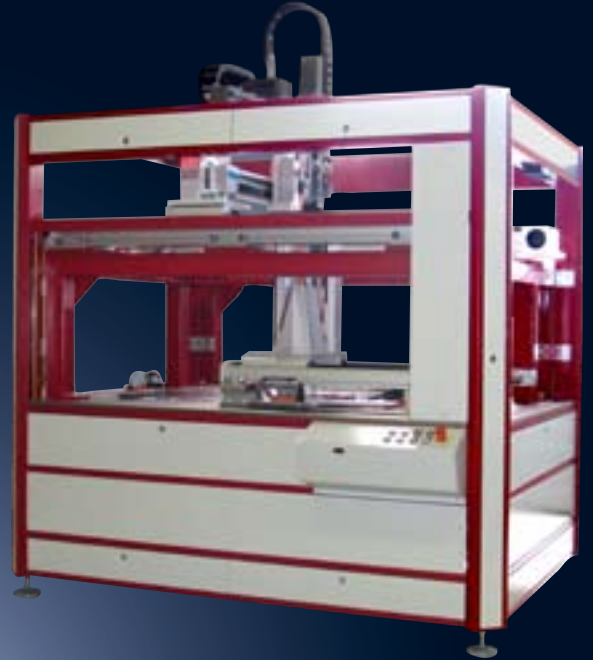
Dummy panel

Key Features

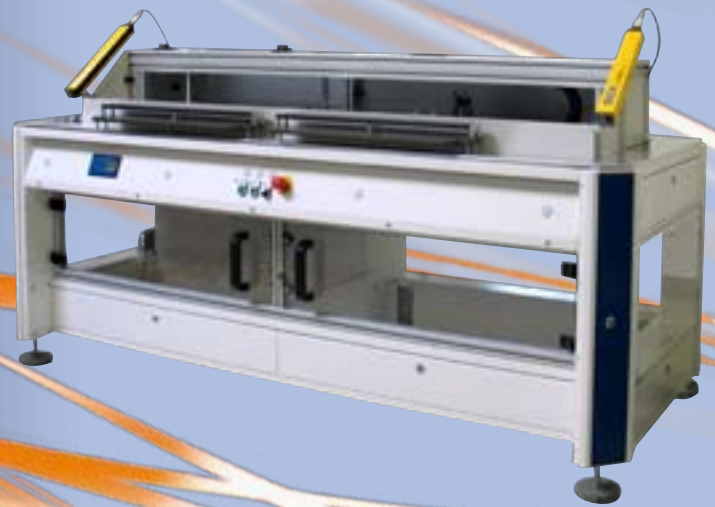
- Cover for cut-outs of the horizontal struts

Designation	type	Art. No.
Dummy panel	for horizontal strut level 1 & 2	211754-02
	for horizontal strut level 3	211755-02

Customer solutions



flex 
frame



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