X-frame – the patented modular machine frame

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häwa GmbH, Industriestraße 12, D-88489 Wain
Our Company

- High quality supplier of control enclosures, cabinets and customized enclosure solutions for the installation of electrical components

- häwa 360 degree service: From our first contact or the conception, design, production and assembly up to our own logistics service

- Annual turnover more than 65 million Euro

- More than 450 employees
häwa customers buy standard. Everybody has got his own individual one.

- Our basis: We base all our customer specific solutions on our thousand times tried-and-tested standard products.

- Your requirements: We find together with you and the experience from numerous projects the perfect solution for your requirements.

- Our common goal: From a simple adaption for a better space utilization or optimized ventilation for your technical applications up to a complete customer specific development, häwa is your specialist for unique solutions.
Our Products
Our patented modular X-frame system with functional frame

Use the volume in your frame for cable routing and component installations
Our patented X-frame system for your modular machine frames.
X-frame: combines design, form, function, modular structure and stability in one system

Functional sheet steel profiles: without additional processing (e.g.: milling and drilling) cut-outs, attachments, holes and threads are already provided in the production process
The machine frame with integrated assembly and service flaps in all struts – Diverse machine frame with useful struts, for a wide variety of uses
Windows, doors and trim panel systems upon request.
Easy integration of bought-in or existing door systems
The machine frame for easy integration of light curtains, switches, monitors and many other control elements offering special machinery solutions
Cabinets with cable routing in accordance with protection class IP 54.
Customized cabinets integrated in the frame and adapted to your specific requirements.
The machine frame with cable ducts in all struts. Support arm and swivel arm systems can be integrated without any problems.
Manual workstations with additional storage for components in all struts.

Stand and sit workstations with usable struts and integrated control cabinets, detachable and reusable for the next product generation.
One System with different designs for all applications: laser, automation, dispersion, feeding, separation etc.
Sturdy and torsion-resistant machine frames for highest dynamic and static loads

The individual struts are optimized to your requirements. Variable use of sheet and stainless steel struts.
Option: 3 mm Pro-X struts and 1.5 mm X-frame struts
Different forms for space-saving and specific applications

Polygon machine frames, hexagonal, octagonal... for an optimum weight distribution
The modular design allows the machine frames and encasements to be customized flexibly to your requirements.

Easy assembly of large plants even in difficult accessible areas.
The machine frame with service and assembly flaps in all struts
Completely assembled frame with turning table and three robots that fold fabric napkins
Light-proof booths for laser and measuring technology
Detailed implementation of the planning, completely assembled booth with all desired add-on components
Common planning and its subsequent implementation e.g.:

napkin folding machines

Walk-in booth with a continuous cable routing concept between cabinets and frames
X-frame booths with integrated welded frames
Combined structure of welded frames and an X-frame encasement – Precision with function and design
The machine frame made of stainless steel
All machine frames are also manufactured in stainless steel
The machines frame with additional storage for components in all struts

Examples for line production by MüKo with different assembly and control workstations
The machine frame with integrated cable ducts in all struts
Modular machine frames with integrated conveyor belt systems
Individual customer solutions by häwa
Switchboards for tunnel boring machines, control panels, milling plants, … – häwa can do it all!
The machine frame with additional storage for components in all struts
Interlinked machine frames in a line production
X-frame application examples
Standardized machine frames for individual applications in your own design
The machine frame with additional storage for components in all struts

Different examples for modular machine frames
Individual customer solutions by häwa

Machine frames for housing tools machinery and a workstation for a special crane, … – häwa can do it all!
The machine frame with service and assembly flaps in all struts

Different application potentials for modular machine frames including add-on components
Individual customer solutions by häwa
Machine frames, control panels, milling plants of stainless steel (V2), customized control cabinets, … – häwa can do it all!
Your advantages of häwa`s X-frame machine frames and housings
(Our patented X-frame system for your modular machine frames)

Design:

1) Individual choice of colors according to customer specification.
2) Surface finish: powder coated or made of stainless steel.
3) Attractive design which makes you stand out from competitors.

Stability and load capacity:

1) X-frame machine frames are manufactured in sheet and stainless steel.
2) High rigidity through a wide strut cross sectional area.
3) For booths above 1.5 tons we use Pro-X struts made from 3 mm sheet steel.
4) Large supporting surface area for your basic model due to a frame width of 120 mm.
Cost advantages, added value

1) Save time:
Concentrate on your core business. Entrust us with the construction of your machine frame.

2) Innovations and Know-how:
Take advantage of our experience and our innovation for your competitiveness.

3) No appliances and resources necessary:
The simple and modular assembly of the booth does not require additional resources.

4) Reuseability of struts:
In case of product changes, the X-frame struts can be used for new frames and extensions.

5) Economic one-off production:
Through its simple structure, the X-frame system is the optimum solution for an economic manufacturing of special or single orders.

6) Integrate control cabinets and save:
The integration of control cabinets is possible on all three levels. The control cabinet becomes a load-bearing part of the booth and replaces the existing crossbars.
Cost advantages, added values

7) No cable ducts:
The consistently open structure of the X-frame frame is a cable duct. A time-consuming installation of additional cable ducts is no longer necessary.

8) A one-stop service including assembly:
We assemble your booth; including foundation, windows, doors, protection switches, light curtains and many other components.

Modular structure:

1) Modular system for an internal standard:
Through its modular structure, X-frame system is the ideal standard for different product ranges, single productions and special customer requirements. It can be used flexibly, quickly and easily adapted to all necessities. Your basic concept serves as internal standard for the assembly of many different applications. X-frame grows with your requirements. It can be easily and quickly adapted to your needs.

2) Changes and extensions:
X-frame can also quickly be adapted to new customer requirements at a later stage.
Function, added value and use of struts

1) Quadruple function:
Every strut of the machine frame is at the same time a load-bearing part, a cable duct and an enclosure to store components. Every strut can be replaced by a control cabinet.

2) Easy access:
Every strut has a door which can be opened with a key and opens to the front.

3) No cable ducts necessary:
The whole X-frame frame is one big cable duct. There are recesses on the joints of the struts to allow easy passage of cables to adjacent struts and control cabinets. This way cables can be routed to any point of the frame.

4) Optimized cable laying and shorter assembly times:
All struts are easily accessible through their front doors, therefore cables can be routed quickly, neatly and tidy within the frame.

5) Subsequent assembly:
Cables and components can also be laid and installed in the struts at a later stage.
Function, added value and use of struts

6) Quick assembly of components:
As every strut can be accessed easily through a door which opens to the front, cables and components can be quickly and easily installed in the struts.

7) Protection for components:
The cables and components are covered by the struts. The components are in our frame protected from external influences!

8) Maintenance and extension:
Repairs and extensions can quickly take place through the doors on the frames. All struts are freely accessible from the front.

9) Additional use of struts:
Additional components can be added into the struts. They are excellently suited to take valves, maintenance units, electric modules, 19“-slide-in units and many other components.

10) Individual struts: Your struts are laid by us to meet your individual requirements.

11) Integrated light curtains: Light curtains are integrated in the vertical struts of the booth. They become invisible and are protected by the frame.
Technical requirements

1) Potential equalization:
The struts of the frame are all grounded. The doors of the frames are prepared for potential equalization.

2) ESD compatible surfaces:
Frames, doors and covers can be manufactured in ESD version by arrangement. The ESD powder coating will be in your choice of color.

3) Doors and covers:
Different types of doors and cover systems can be integrated in the X-frame frame. Types, forms and materials can be freely chosen.

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Ideen leben

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