

CUSTOM-DESIGNED ENCLOSURES Made of plastic and metal.

BOPLA enclosures
Content matters

Do you want your electronics to be individually-protected? We are the right partner for you!

The enclosure is your product's business card, so its design is extremely important. Our team of experts is here to support you from the initial idea and start of your new product. The following pages show you a small selection of customers' existing projects. Together with you, we determine the optimal manufacturing process for your application and convert your idea into your product!



The manufacturing technologies

Characteristics and advantages of plastic.



Plastic injection-moulding technology

- Very high level of design freedom
- Integration of function elements (hinge, locking function, ...)
- Radio permeable
- Perfect coordination between material and application is possible
- Corrosion-resistant
- Low weight
- Low unit costs for large quantities

Watch now: Custom-designed enclosures "live"



Characteristics and advantages of metal.



Metal enclosures using stamping & bending technology

- Often no need for investment in tools
- Good opportunities for EMC screening and conductive connections
- Ideal for use in difficult environments (high chemical and temperature resistance)
- Low-cost alterations to the enclosure design are possible
- Very good stability



Metal enclosures using profile technology

- Lengths are variable (a "family" of enclosures can easily be created)
- Ideal for use in difficult environments (high chemical and temperature resistance)
- Good opportunities for EMC screening and conductive connections
- Very good heat dissipation
- Low tool costs
- High level of impact resistance
- Very good stability



Metal enclosures using diecast technology

- Reliable even under extreme conditions
- High impact resistance, stability and ingress protection
- Resistant to chemicals and temperature
- Very good heat dissipation
- Good EMC screening



Plastic enclosures

Digital pressure switch / transmitter to monitor overpressure and negative pressure.

Multicoloured enclosure with hinged cover.

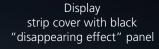


Modular connection plate IP65, for use with the required configuration

For snapping onto a design-integrated top hat rail

Power unit for tattooing machine.

Design-oriented enclosure incl. electronics manufacture, mounting, final inspection and packing.





artyst

Snap-lock mechanism – no visible screw connections

MADE FOR ARTISTS

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Polished product name on top

CHEVELIN

Tip-up foot in end position



Tip-up foot with magnets – closed position on the rear

Sophisticated customised packing, with slide-in insert and contour-foamed inlay



Plastic enclosures

Processor unit for elevator control.

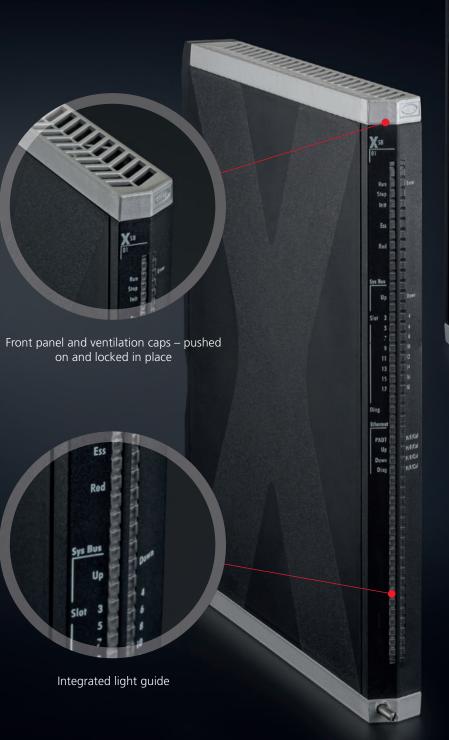
With variable connections options.



Integrated snap-lock foot for top hat rail mounting

Seamless safety control.

Five-piece enclosure concept – mounted complete, without screws.





Integrated connectors for contacting the individual frame-type plug-in units on a backplane



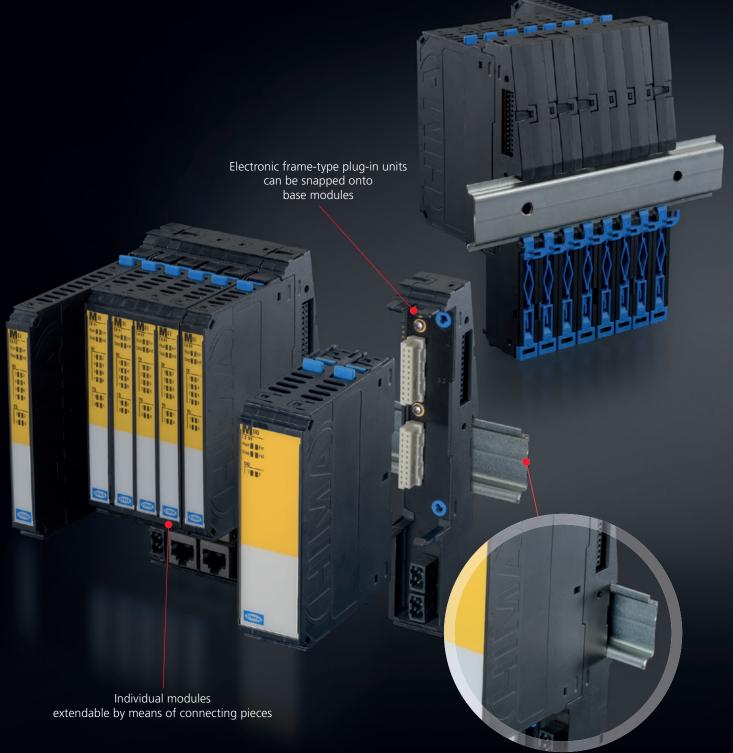
Installation in a 19" rack



Plastic enclosures

Safety controller for process control.

In the modular-design control enclosure, the modules are stackable and contacted to each other.



Sub-assemblies for mounting on a top hat rail

Control of decentralised video monitoring e. g. in public places.

Modified standard enclosure (Bocube) with customised enclosure base.

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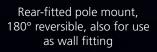
Plastic covers with mounting contours for connecting fibre optic cables

Lockable using padlock

Rear-side integrated two-part heat sink with seal guaranteeing IP66/67 protection

PHOENIX

Screwless closure using integrated hinge lock technology



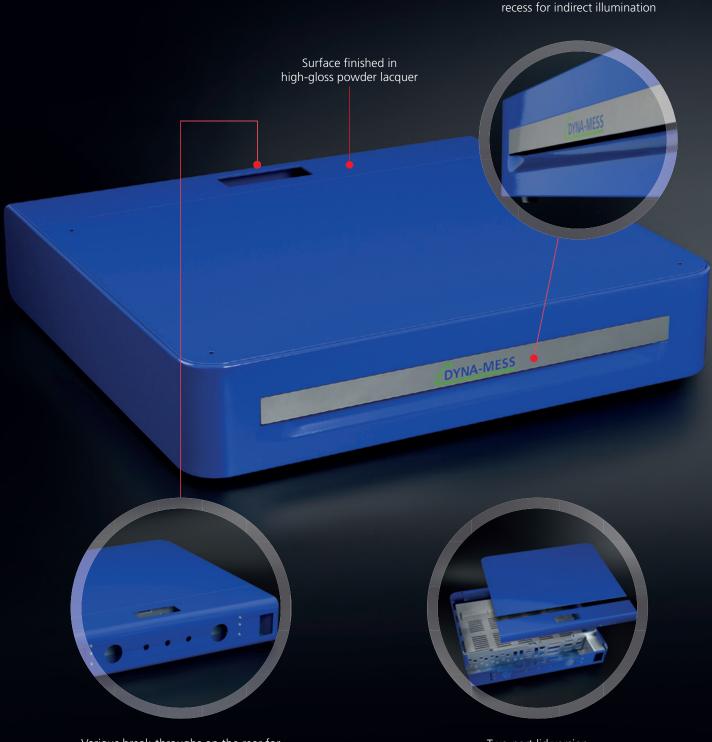


Metal enclosures using stamping & bending

Stainless steel design strip, with screen printing, fitted in a recessed area; additional stamped

Multi-part enclosure for use in material testing.

Enclosure design made of welded and chamfered sheet metal.



Various break-throughs on the rear for mounting a range of components

Two-part lid version for mounting connectors

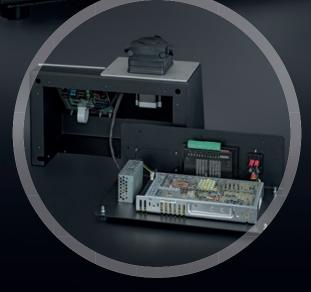
technology

The lid and base are screwed on the rear

Hose pump control with a modern design.

Welded enclosure body with screw-on base and flush integrated glass pane incl. touch screen.





The L-shaped base houses a large part of the electronics

Metal enclosures using stamping & bending

Rear cut-outs for through-feed of cables and connectors

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The welded enclosure was enhanced with powder coating and screen printing

Desktop enclosure for use in dermatology.

SKIN-O-MAT

The sheet steel enclosure consists of three parts. Its display area is angled, which improves display readability.

technology

Arrest system for fire protection closures as part of track-bound conveyor systems.

Powder-coated wall-mounted enclosure with recessed area for a membrane keypad.





Metal enclosures using stamping & bending

Console enclosure for medical technology.

E SGRAP

The welded central part of the enclosure is glued to the stainless steel lid.

A self-adhesive sponge rubber panel ensures the necessary stability



Access to the electronics is via the screw-on base

technology

The removable lid provides fast access to the electronics



2 U enclosure for installation in a 19" rack used in audio technology.

Black anodised steel sheet enclosure with front panel enhanced with digital printing.



Metal enclosures using profile technology

Mobile data logger for diagnosing switchgear problems.

Anodised aluminium profile with recessed area for membrane keypads and powder-coated end caps with moulded diecast handles.



F3



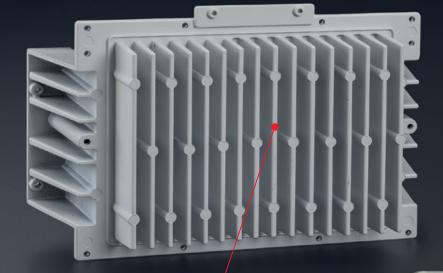
DIN rail support on the enclosure rear



Metal enclosures using diecast technology

Heat sink for installation in a plastic enclosure.

Powder-coated diecast aluminium element.



Control unit for sound management system exhaust characteristics in motor vehicles.

Diecast aluminium enclosures with screw connection through the middle of the enclosure.



Diecast heat sink with tailor-made fixing points and slot for sealing contour



Moulded brackets for wall mounting



Here are the solutions:

From the idea to the product!



Processing • Machining CAD/CAM / Milling / Drilling / Countersinking / Punching / Sawing

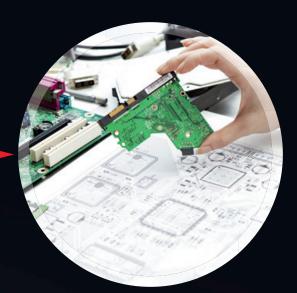
Conception Consulting / Specification / Preliminary costing

Production

Plastic injection moulding / Aluminium profile extrusion / Aluminium die-casting / Zinc die-casting / Stamping and bending technology

Construction Product design / Prototype construction / Manufacturing and cost analysis **Tools** Tool design / Production analysis / Tool manufacture





Refinement Printing / (powder) Lacquering / Engraving / Laser marking / EMC screening

Integration of electronics

Development support & advice / Manufacture & mounting / Full service / Testing

Mounting

HMI integration / Assembly / Wiring / Cable assembly / Final test / Function test

Prüfstand für Schutzartprüfungen nach EN 60529 utzart : IPX 3, 4, 5 u. 6

Packaging ESD-compliant packaging / Customised packaging / Returnable packaging / Logistics concept

In-house test laboratory IP test / IK test / Climatic test / EMC test

> Your personal contact: Worldwide





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