BOPLA

A Phoenix Mecano Company

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“

www.bopla.de/60

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

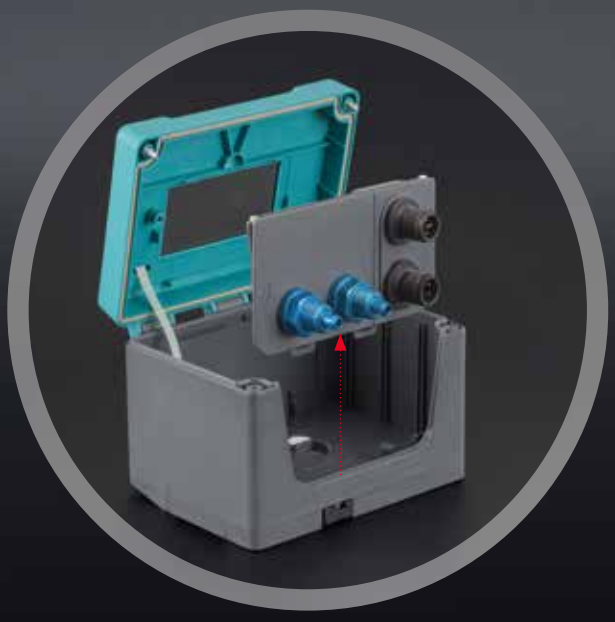
- Reliable even under extreme conditions
- High impact resistance, stability and ingress protection
- Resistant to chemicals and temperature
- Very good heat dissipation
- Good EMC screening

Plastic enclosures

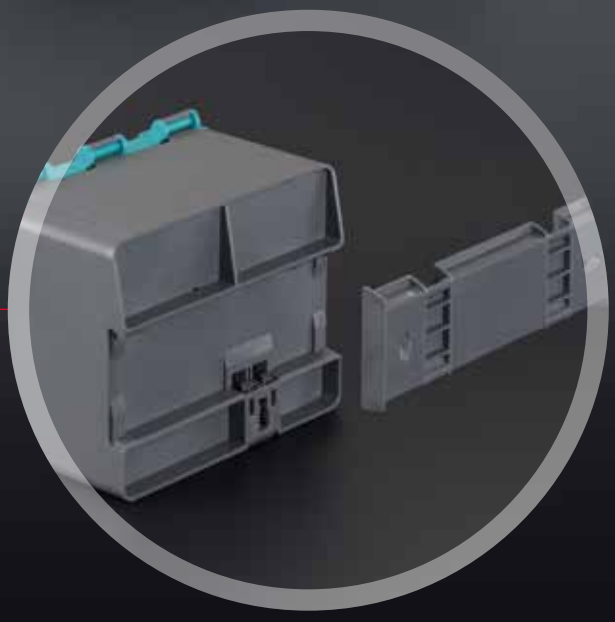
Digital pressure switch / transmitter to monitor overpressure and negative pressure.

Multicoloured enclosure with hinged cover.

Cover with integrated display and membrane keypad



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.

Polished product name on top

Display strip cover with black "disappearing effect" panel

Snap-lock mechanism – no visible screw connections

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.

Seamless safety control.

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

Front panel and ventilation caps – pushed on and locked in place

Integrated light guide

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.

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

Modified standard enclosure (Bocube) with customised enclosure base.

Plastic covers with mounting contours for connecting fibre optic cables

Lockable using padlock

Screwless closure using integrated hinge lock technology

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

Rear-fitted pole mount, 180° reversible, also for use as wall fitting

Metal enclosures using stamping & bending

Multi-part enclosure for use in material testing.
Enclosure design made of welded and chamfered sheet metal.

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

Surface finished in high-gloss powder lacquer

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

Two-part lid version for mounting connectors

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

The welded enclosure was enhanced with powder coating and screen printing

Desktop enclosure for use in dermatology.

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.

The removable lid ensures easy access to the electronics

The cable glands are concealed under the battery tray

abs Sicherheitstechnik Vertriebs- und Service GmbH
www.abs-brandschutz.de

Metal enclosures using stamping & bending

Console enclosure for medical technology.
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

Various connections
are provided on the rear

**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.

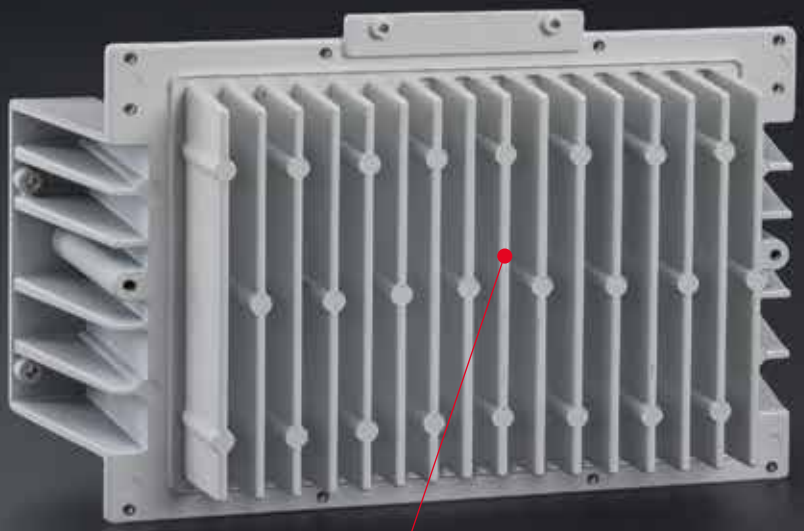
Enclosure bodies
made of aluminium profiles

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!

Conception
Consulting / Specification /
Preliminary costing

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

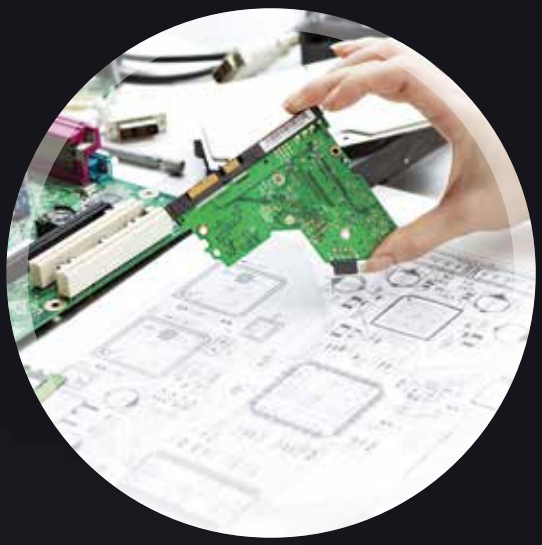
Production
Plastic injection moulding / Aluminium profile extrusion /
Aluminium die-casting / Zinc die-casting /
Stamping and bending technology

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

In-house test laboratory

IP test / IK test / Climatic test / EMC test

Packaging

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

Your personal contact:

Worldwide

#110

www.bopla.de/110

Bopla Gehäuse Systeme GmbH I Borsigstraße 17-25 I D-32257 Bünde
Tel. +49 (0) 5223-969-0 I Fax +49 (0) 5223-969-100
info@bopla.de I www.bopla.de

BOPLA
A Phoenix Mecano Company

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