



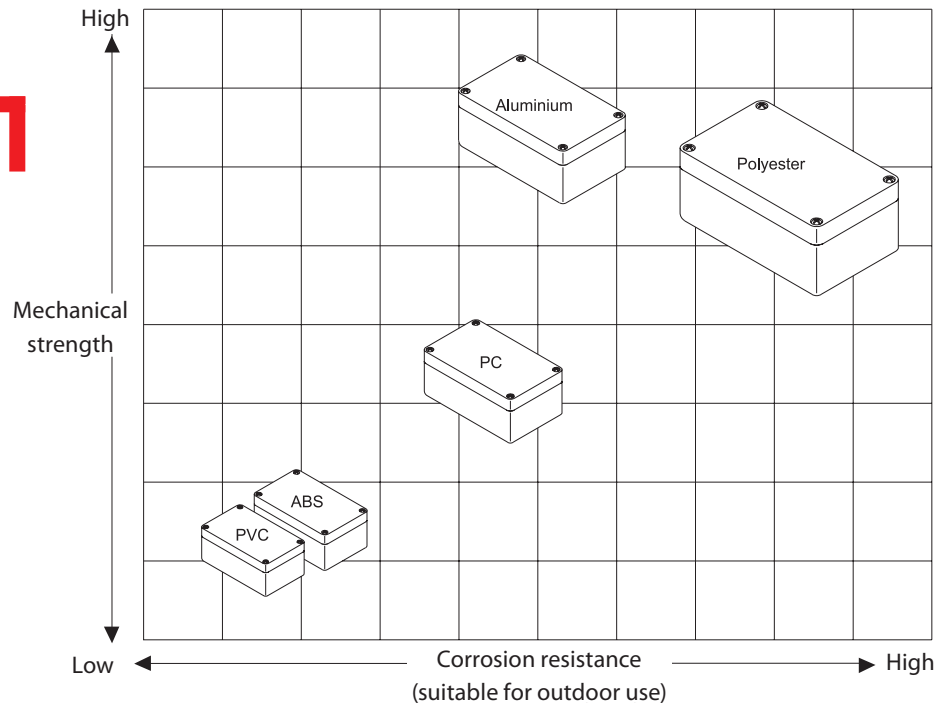
Aluminium, polycarbonate, ABS and polyester
Standard enclosures

The Evergreen of Enclosure Technology

Standard enclosures

Material / type selection

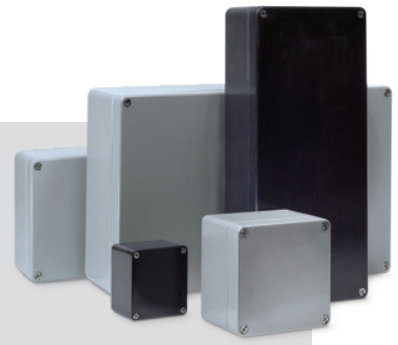
The illustration shows the suitability of different enclosure materials (standard) for mechanical load and corrosion-protecting conditions.



Aluminium **Type CA**



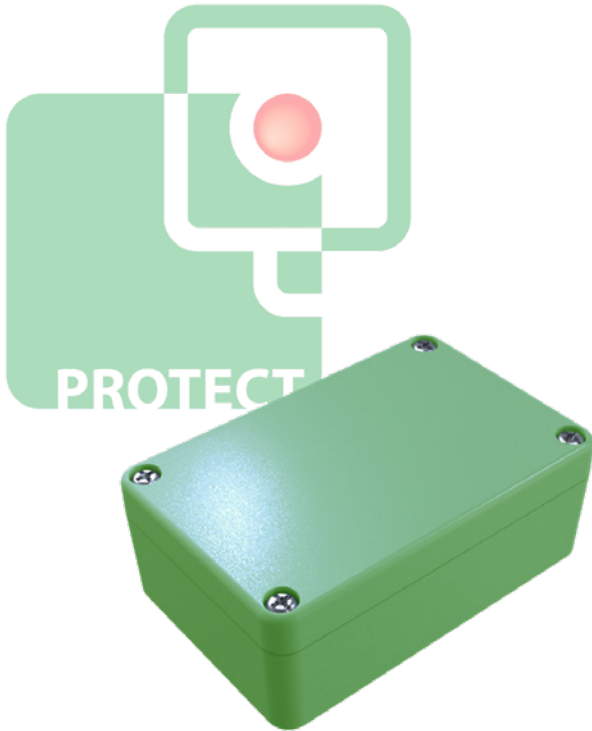
Polycarbonate **Type CT** ABS **Type CT**



Polyester **Type CP**

Material property	Standard	Unit	Aluminium	Polycarbonate	ABS	Polyester
Density	DIN 53479	g/cm ³	2,65	1,2	1,05	1,8
Impact resistance	DIN 53453	mJ/mm ²	150–300	65	60	80
Impact strength	DIN 53453	mJ/mm ²	90–200	20	10	4
Tensile strength	DIN 53455	N/mm ²	180–300	65	43	45
Elongation at break	DIN 53455	%	60–90	90	20	20
Modulus of elasticity (bending test)	DIN 53457	N/mm ²	75000	2300	2100	6500
Limiting flexural stress	DIN 53452	N/mm ²		95	90	100
Flammability	UL 94	Klasse		V 2	HB	V 0
Volume resistivity	DIN 53482	Ohm × cm		10 ¹⁵	10 ¹³	3 × 10 ¹⁴
Surface resistance	DIN 53482	Ohm × cm		≥ 10 ¹⁵	4 × 10 ¹⁴	> 10 ¹² (< 10 ⁹)
Dielectric strength	DIN 53481	kV/mm		25–40	24	18 (>2Kv/cm)
Heat conductivity (20 °C)	DIN 52612	W/mK	120–160	0,21	0,18	0,25
Electrical conductivity (20 °C)		m/Ohm mm ²	15–22			

Our evergreen of enclosure technology



Terminal box, enclosure or connection box? Standard enclosures have many different names and meanings to our customers. Enclosures can contain electrical, electronic, pneumatic, control devices and many other items that require protecting from harsh environments.

Whether it be in aluminium, polyester, polycarbonate or ABS, BERNSTEIN has the right solution for you.

**Personally special. Individually special.
Technically innovative.**

— as well as the requirements of our customers. These are the strengths of our “Evergreen”.

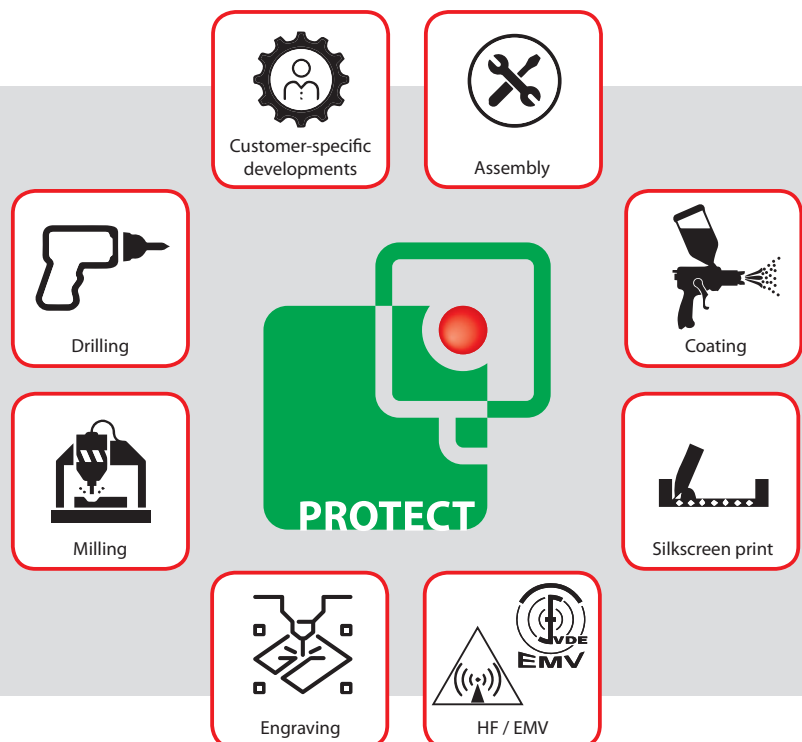
Including; machining, finishing, pre-assembly of rails, terminals, assembly, to a complete wired solution, BERNSTEIN can satisfy your every need.

Your idea – Our solution.

OUR ADDED VALUE SERVICES

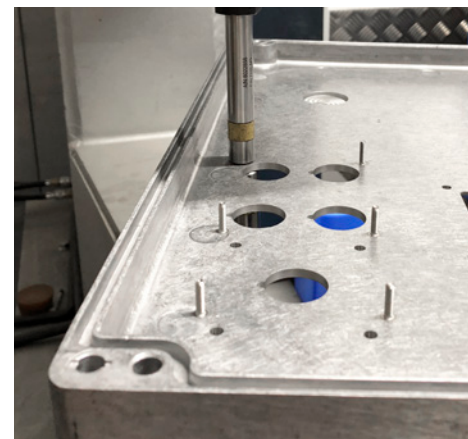
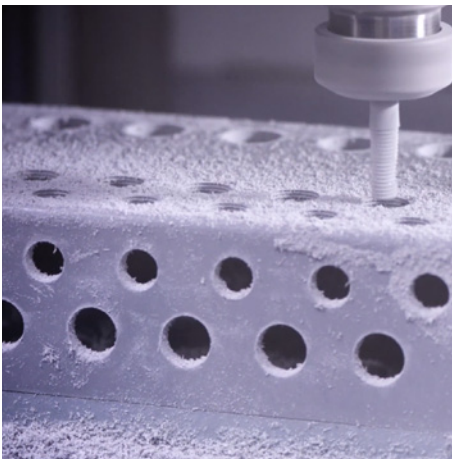
You know BERNSTEIN as a supplier of innovative and reliable enclosure products? We offer you even more!

Benefit from the economic advantage of BERNSTEIN: Because we support you with a complete enclosure solution, fully machined, wired, assembled and individually coated.



Standard enclosures

Infinite processing possibilities



OUR MACHINING SERVICE

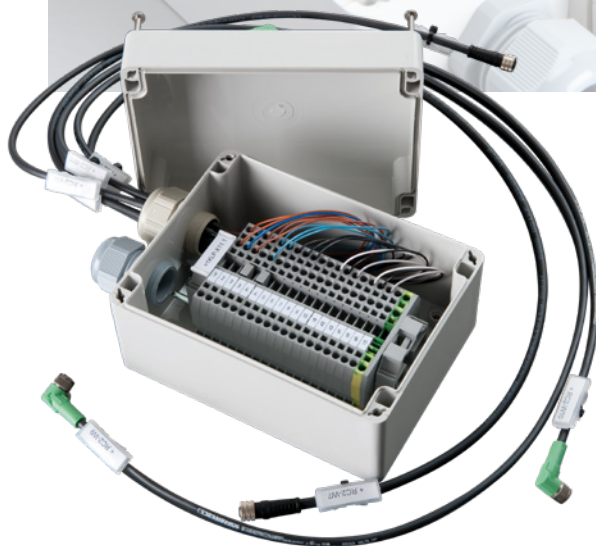
As a solutions specialist, BERNSTEIN has core competencies in mechanical engineering, this coupled with an extensive ultra-modern machining and Powder-coating facility, BERNSTEIN can deliver any solution to meet your exacting needs. Whether it's CNC machining, pre-treatment or specialised finishes, we have the right solution for you.

We are not only a solutions provider, we are also the right partner to assist in your design process. With our in-house design team, we can advise on simple things like colours, printing etc., or even assist in the design and production of bespoke enclosure solutions.

BERNSTEIN offers customer service

- Customisation of standard products according to your wishes
- A finished product from a "one stop" solution

Standard enclosures in practice

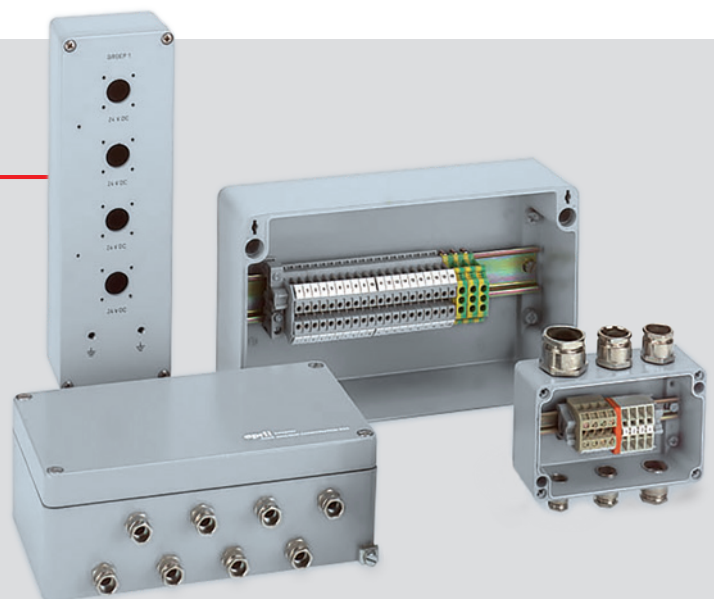


Custom-made wiring and component assembly is directly integrated into our enclosure production facility.

Starting with the pre-assembly of mounting rails and terminals, through to component procurement and complete enclosure assembly, BERNSTEIN can manage this process for you, saving you time and money.

YOUR ADVANTAGES

- Shortened assembly time
- No coordination of bought out components
- Labour savings thanks to assembled products from one supplier
- Simplified logistics chain
- Reduced inventory and overheads





**We make
safety happen.**



**We keep safe
your visions.**

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