

A Standard **Alternative** to
Locally Manufactured **Enclosures**

Smartline Modular Enclosures



Contemporary, highly flexible modular enclosure system made through most modern manufacturing facilities for versatile applications. Ideally suited for Automation Control / Power Distribution and for Industrial Controls. As the name suggests the construction is fully modular and offers flexibility of flatpack shipment. There is a separate robust subframe, covered with Doors and Covers protected against ingress by highly resilient foamed-in PU gasket. The mounting plate is depth adjustable.



BCH ELECTRIC LIMITED



Top quality and economy characterise Smart Line TME

The bend profiles with extruded pattern hole is one of the core features of our Smart Line modular enclosure.

It offers top quality combined with maximum useful internal space, unlimited assembly options due to slots and holes on a 25 mm DIN pitch pattern, does not require manual machining due to approximately 1000 M6 tapped extruded hole and 1000 round hole (for medium sized enclosures) where assembly work is required. No additional hardware or Cage Nut required for universal installation.

Superior Quality

- High corrosion protection.
- 10 Tank fully automated pretreatment process using spray jets and cascade rinsing with Tri-Cataionic Zinc Phosphating ensure high SST life and provides optimum corrosion protection and is a perfect solution for priming of steel surfaces.
- Used only Draw Quality CRCA & Electro galvanized steel.
- Structural profiles made of Electro Galvanized steel and then powder.
- PU foam Jointless Gasket.coating.

Save Money

- Better product at a competitive price.
- Designed to house power distribution components and other electronics with flexibility of mounting a wide range of components and accessories.

Save Time

- Easy interior installation without any form of enclosure machining.
- Facilitating and accelerating interior installations with a comprehensive range of accessories with reduced time.
- Offering standard dimensions to cover many application fields.
- Immediate delivery range. Ex-stock availability of product.
- System solutions from a single partner.



SmartLine TME advantage over locally fabricated enclosures

SL. No.	Features	BCH Smart Line TME	Locally Fabricated Enclosures	BCH Smart Line Advantages
1	Construction	Fully Modular Construction	Welded construction	Facilitates site modifications and baying of enclosure
2	Frame	2mm thick GPSP bent structure with corner blocks	Mostly manufactured out of L angle	Uniform diagonal accuracy.
3	Painting process	Fully automated 10 Tank spray type Pre-treatment + Tri-cationic Zinc Phosphating + Powder Coating	Only powder coating with conventional pre-treatment	Corrosion resistant and increased cabinet life
4	Gasketing	Polyurethane gasket	DPDM / Neoprene gasket changes its property due to temperature variation. The gasket becomes hard and brittle which results in failure of IP	Life of polyurethane is more when compared to EPDM / Neoprene gasket. There will be no deformation in the gasket which provides consistent IP rating over a period of time
5	Material	CRCA, D grade directly from the mills [TATA / POSCO]	HRPO from local market	Guarantee on the material grade and specifications
6	Availability	Mostly Ex - Stock	To be manufactured on receipt of order	Faster delivery
7	Accessories	Standard comprehensive range of accessories available ex - stock	Made to order on need basis	Faster delivery
8	Manufacturing Process	Automated process	Manually fabricated	Uniform quality
9	Service	National support through branches and dealer network	Only at manufacturing location	Ease of serviceability
10	Interchangeability	The doors, mounting plate, side panels, rear panels can be interchanged to any other cabinet of the same size	Restricted to the same cabinet due to fabricated parts	Faster assembly and uniformity



Standard Available Sizes

SL	Size of Enclosure (W x H x D in mm)	Cat. No.	Plinth	Side Covers (Pair)
			Cat. No.	Cat. No.
1	600 x 1800 x 500	SLE 061805	TPL 061805	SLSC 061805
2	800 x 1800 x 600	SLE 081806	TPL 081806	SLSC 081806
3	600 x 2000 x 600	SLE 062006	TPL 062006	SLSC 062006
4	800 x 2000 x 600	SLE 082006	TPL 082006	SLSC 082006
5	1200 x 2000 x 600	SLE 122006	TPL122006	SLSC 122006
6	600 x 2000 x 800	SLE 062008	TPL 062008	SLSC 062008
7	800 x 2000 x 800	SLE 082008	TPL 082008	SLSC 082008
8	1200 x 2000 x 800	SLE 122008	TPL 122008	SLSC 122008

Enclosure Versions

1. With mounting plate and rear cover.
2. With mounting plate and rear door.
3. Without mounting plate and with rear cover.
4. Without mounting plate and with rear door.



High quality **CRCA**
branded steel sheets

Highly resilient
foamed-in **PU Gasket**

Removable
Doors & Covers

3 Point Lock
provided as standard

Paint Shop installed by
Handen Machines with
Powder Application System
from ITW GEMA, Switzerland



The design incorporates user friendly features and accessories, viz.

- Adjustable support members.
- Removable doors and covers.
- Gland plate.
- Lifting eye bolts (lifting channel for extra wide enclosures).
- Baying kit (for joining adjacent enclosures).
- Wiring plan pocket.
- Modular plinth.
- Bolted stiffener for door.
- 3 point locking for doors.
- Possibility of offering Louvers with filters, Fans, Limit switch, Multipart mounting plate, AVM pads, and 19" angle adaptors etc.
- All along the internal sub frame, there is M6 tapping every 25mm that offers unmatched flexibility of site fixing of various accessories, supports, brackets, fittings, etc. without need of hole drilling.





Technical Particulars

- IP-54 degree of protection.
- Fabricated from CRCA/GPSP (frame made up of GPSP sheet, doors & covers made up of CRCA sheet).
- Modular construction.
- Mounting plate and cable entry plate made up of Galvanized steel [Unpainted].
- Plinth (optional) 100mm high fabricated from CRCA.
- Cable entry provision is given from Bottom as standard.
- Foamed in PU gasket.
- Powder-coated to RAL 7035 structure finish.
- Hinge design allows 120 deg. Door opening.
- 3 point lock provided as standard.
- Door stiffener with provision of drilling holes for wiring harness.
- Side Covers Pair : consisting of 1no. LHS and 1no. RHS cover.

Note : Upto 800 mm width single door. 1200 mm width double leaf door

BCH ELECTRIC LIMITED

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