

# TECHNO MODULAR ENCLOSURE



**Strong**  
**Flexible**  
**Modular**



BCH ELECTRIC LIMITED  
*we care for you*



## **BCH ELECTRIC LIMITED**

an ISO 9001:2008 company, is today one of the leading manufacturers of low voltage electrical and electronic controls. It is a wholly owned Indian Company with a wide network of global business connections.

The company's strong focus on customer satisfaction is reflected in its wide product range, catering to the requirements of customers in the electrical field. This includes Automation, Switchgear, Enclosures, Brakes and Crane Control Products.

A strong R & D base, state-of-the-art tool design, development and manufacturing capabilities and emphasis on quality has helped the company achieve benchmarks for its products and services.

BCH Electric, as always, remains committed to customer satisfaction and loyalty, and will continue to broaden its portfolio with more services and products to further strengthen its partnership with customers.





## TECHNO MODULAR ENCLOSURE



Contemporary, highly flexible modular enclosure system for versatile applications. Ideally suited for AC Drives / Automation Control / Power Distribution and for Industrial Controls. Apart from standard Form-1 configuration, also possible to offer semi / fully compartmentalised options upto Form 3b that facilitates adaptability for MCCs, PDBs, APFC control, etc.

As the name suggests the construction is fully modular and offers flexibility of flatpak 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 with high load bearing capacity is depth adjustable.

**The design incorporates user friendly features and accessories, viz.**

- (a) Adjustable support members
- (b) Removable doors and covers
- (c) Gland plate
- (d) Lifting eye bolts (lifting channel for extra wide enclosures)
- (e) Baying kit (for joining adjacent enclosures)
- (f) Wiring plan pocket
- (g) Modular plinth
- (h) Bolted stiffener for door
- (i) Sophisticated 3 point locking for doors
- (j) Possibility of offering Louvers with filters, Fans, Limit switch, Multipart mounting plate, AVM pads, and 19" angle adaptors
- (k) 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





# TECHNO MODULAR ENCLOSURE

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 MANUFACTURING PROCESS

Our state-of-the-art suitably augmented manufacturing infrastructure, produces enclosures that excel to offer cost effectiveness. Our focus is on strong infrastructure, high efficiency and consistent quality.

- High quality CRCA (branded) steel sheets
- High-speed turret punch press with superior servo drive & accuracy
- CNC machines are supported by Pro E compatible software, which enables CAD to CAM manufacturing for customized products
- CNC bending machines with very high degree of accuracy, reproducibility & repeatability
- The fabrication process designed with TIG, MIG & spot welding ensures strong structures
- Modern paint shop installed by Haden International Group
- The pre-treatment is done using spray jets and cascade rinsing, which ensures optimized usage of chemicals.
- Paint shop is fitted with advanced automatic powder application system from ITW GEMA, Switzerland
- The door panels are processed with foam gasketing - made from Poly Urethane polymer for long life.
- The gasket laying machine is a state-of-the-art 3-Axis CNC machine from Europe
- Tri-cationic zinc Phosphating for higher salt spray life





## BHARTIA ENCLOSURES IP 55 & IP 66



- ~ Range : (W x H x D in mm) : 200 x 200 x 150 through 1000 x 1200 x 300
- ~ Available in IP 55 and IP 66 degree of protection
- ~ Fabricated using CRCA draw quality sheet steel :  
Body and Door : 1.2mm thickness upto 500 x 400 x 200 and 1.6 mm thickness beyond  
Mounting plate and Gland plate : 2 mm thickness
- ~ Powder coated paint finish :  
Body - RAL 7035 Structure finish  
Mounting plate - Electrogalvanized. [Deep orange (RAL 2000) on request/special case]
- ~ Foamed-in PU gasket for superior and long lasting ingress protection
- ~ Gland plate provided at bottom for IP 55
- ~ Wall mounting brackets sets [4 brackets with fixing h/w] available as spare for small and bigger sizes enclosure.
- ~ Customised Solutions

Ability to meet special requirements like non standard sizes, colours, door configuration, locking arrangement.

## BHARTIA TERMINAL BOXES



- ~ 43 standard variants
- ~ Range : (W x H x D in mm) : 150 x 150 x 80 through 800 x 400 x 120
- ~ Available in IP 55 and IP 66 degree of protection
- ~ Fabricated from 1.2 mm CRCA sheet steel
- ~ Foamed-in PU gasket
- ~ Powder coated to shade RAL 7035
- ~ Provided with screwed cover on top
- ~ Hingeable door with knob type locking for all sizes possible on request [Under customized category]
- ~ Two nos vertical mounting brackets provided as standard accessory
- ~ Holes with grommet provided to facilitate cable entry in IP 55 terminal boxes
- ~ Wall mounting brackets sets [4 brackets with fixing h/w] available as spare

## BHARTIA TECHNO RACKS



- Networking Racks :**
- ~ Most versatile rack platform
  - ~ Easy mounting of components
  - ~ Precision-engineered panels with highest tolerances
  - ~ Big range of sizes for single and baying applications
  - ~ Front glass door, rear door and side covers partially perforated for cross flow of ambient air
  - ~ Flexibility of placing the 19" channels from front to rear at the pitch of 25mm
- Wall Mounting Enclosures/Cabinets**
- ~ Variet sizes gives more choices for selection.
  - ~ Ready to use enclosures
  - ~ Sleek look with sturdy construction
- Server Racks**
- ~ 19" door standing racks
  - ~ Value for money
- ETSI Racks**
- ~ Wide range of racks as per the ETSI standard
  - ~ Mainly used for telecom application
  - ~ Available in 2200mm height with 2 depths of 300mm and 600mm

**TECHNICAL  
FEATURES & HIGHLIGHTS OF  
BCH TECHNO MODULAR ENCLOSURES:**



- Combination to suite every need.
- 100% Modular Structure can be dispatched into flat pack.
- Structure made of high grade Electro-galvanized steel [Skin Pass] to provide superior protection against corrosion.
- Flexible Horizontal / Vertical busbar and Cable Compartment Configuration.
- Fully type tested as per International Standards IEC 439 , IEC 529
- Modular design construction for prevention of electrical faults from one compartment to the other compartments i.e. Form 1-2-3-4 and their sub form can be constructed IP 54 with polyurethane foam gasketing.
- Doors available in height of 200mm & multiples of 100mm.
- Horizontal Busbar chambers, Vertical cable chambers are provided with Individual bolted covers.
- Plinth (modular) & Side cover is optional.
- Wide Variety of Standard TME range to choose from.
- Additional accessories like Cable Support, Busbar Support and Baying Kit are available.
- Double front execution can also be provided.
- Lifting Channel provided as std (instead of Eye-bolts) for higher load-caring capacity.
- Mtg. Plate adjustable throughout the feeder compartment depth at an pitch of 25mm.
- BB chamber (Top / Bottom) and Feeder doors (Left / Right) are interchangeable.
- As a standard the doors are supplied with hinges for 120 degree opening and Metal locks.
- Panel can be expanded in all 3 dimensions and bayed together by using Baying Kit.
- All cornerbars and crossbars can be placed at 25mm intervals horizontal, vertical, longitudinal.
- Separation Plate will provide into all the feeder compartment in Horizontal and vertical way.
- Colours: RAL-7035 (EP structure finish) for structure, covers & doors. RAL-2000 (smooth finish) for Mtg. Plate, RAL-9000 (smooth finish) for Plinth and Lifting Angle.
- Short circuit strength : 50KA for 1 sec.
- Ingress Protection : IP - 54

Switchgear & Control Gear

Automation

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a strong commitment to serve better always ...



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