

PRODUCT BRIEF



- Shelter Mosaic Desk Console Desk Bare Panel IP-65 PLC Panel Mosaic Mimic Panel •
- Local Control Station
 FRP Box
 LIR
 Power Distribution Box
 Purge & Ex-proof
 Acrylic Mimic
 - NG / LAVT Cubicle
 Generator Control Panel
 MCC / PCC / IMCC
 CT Box
 APFC Panel
 - Bus Duct (NSPD) Soft Starter Panel Synchronization Panel HT Panel Videowalls •
 - Networking Panel
 Bare Panel IP-55
 Junction Box
 Control & Relay Panels
 Alcosy Control Desk
 - Metering Panel Metering Box Marshalling Panels EMI/RFI Compliant Panel •
 - Universal Test Bench Push Button Station 19" Racks Control Room Interiors •



An ISO 9001, EMS 14001, OHSAS 18001 Company

PYROTECH ELECTRONICS PVT. LTD.



Reputed Manufacturers and Exporters of Bare & Wired Panel provides total automation solutions

Company Profile

Pyrotech is managed by well-knit, dedicated team of energetic technocrats. In the journey of over three decades & more, we have expanded to match global vision & progressed steadily through upgradation of technology, quality and

skills. We have mastered the engineering of various products in the field of Electronics & Electrical Control equipments. Today, we are one of India's leading manufacturers of Automation & Control Equipment.

We have an exceptional multi-disciplinary array of products - Panels, Enclosures, Junction Boxes, Computer Consoles, Videowalls & Control Room solutions to meet your requirements. Approved by major consultants, and working with large OEMs, we are in position to cater to the needs of a variety of industries, ranging from Power to Petrochemicals, Metering to Railways, Material Handling to Process Control, Cement to Defense and many more.

The manufacturing set-up has fully automated CNC



Pyrotech, Unit II

Machines and Powder Coating & Modern Paint Shop. We also have a well-set Wiring and Tubing shop. Our Quality Assurance dept., equipped with the latest testing apparatus, ensures that the product quality exceeds your expectations. Our R&D department has developed ALCOSY, FECOSY, 8 Fold & 5 Fold technologies that provide with cost-effective & flexible solutions.

We provide complete in-house engineering solutions. We understand that every project is unique. With your needs on our minds, we assist you in choosing the right kind of system that exactly meets your requirements.



Pyrotech, Unit IV



Why Pyrotech?

INFRASTRUCTURE

- · World class state of art panel building infrastructure / Facility
- Design engineering CNC, Fabrication, Powder Coating, Assembly, Wiring & Testing under one roof.
- In house Testing Laboratory & Temperature rise Testing Setup.

CAPABILITY

- Single source for all types of Panels Desk, JB, Enclosure, Rack.
- · Provision of 2 types Bare & Wired also provided.
- Providing customized & standard products & solutions.
- IEC & IS Standard Compliance

CREDENTIALS

- ERDA approved type test approvals for Panels & Bus Ducts covering
 - (i) Short Circuit Test
 - (ii) Temperature Rise Test
 - (iii) Enclosure Protection Class Test
- Approved vendor of Central & State Governments, Public and Private sectors
- Established Brand for last 37 years.







ISO 14001:2004



OHSAS 18001:2007



Council For Fair **Business Practices**



Rajiv Gandhi National Quality Award



CII 5S Excellence Award 2014



CNC LINE - S4+P4



CNC LINE \$4 (2013)

(Make-Salvagnini, Italy) Punching Capacity 20 Tons Punching Accuracy 0.1 mm Working Length 1250 X 2500 mm Maximum Sheet Thickness 3.2 mm

SHEET PUNCHING



CNC Turret Punch Press (2013)

(Make-Muratec, Japan)
Punching Capacity 20 Tons
Punching Accuracy 0.1 mm
Working Length 1250 X 2500 mm Maximum Sheet Thickness 3.2 mm

SHEET SHEARING



NC Hydraulic Shear Machine (2000) Capacity 4 mm X 3000 mm Work Length 4 x 1000 mm Accuracy up to 0.5 mm Tolerance 0.5 mm

CNC LINE P4 (2013) (Make-Salvagnini, Italy) Bending Accuracy 0.02 mm Working Length 1250 X 2500 mm Maximum Sheet Thickness 2.0 mm

SHEET PUNCHING



CNC Turret Punch Press (2013)

(Make-Amada, Japan) Punching Capacity 20 Tons Punching Accuracy 0.02 mm Working Length 1250 X 2500 mm Maximum Sheet Thickness 3.2 mm

SHEET BENDING



Power Folder Futura Plus-25 (Make- CIDAN, Sweden) Folding Length 2600 mm Capacity at 400 N/sq. mm 3.5 mm Opening Height Clamping Beam 195 mm Motor Clamping Beam 2.2 kv Motor Folding Beam 1.5+1.5 kv Weight Cap.4295 kg

0



SHEET BENDING



Make- Amada, Japan Capacity - 80 Ton Accuracy - 0.1 mm Working Length - 2600 mm

SPRAY PRETREATMENT EQUIPMENT



Conveyorized Surface Treatment (Make- Huali, China) Complete surface Treatment which involves processes like Predegreasing, Degreasing, Rinsing 1, DI Water Rinsing 1, NT 1, DI Water Rinsing 2, DI Water Rinsing 3, DI Water Spray.

POWDER AUTOMATIC SPRAYING SYSTEM



Steel Sheet Surface Coating Automatic (Make- Huali, China)
Control Production Line
Maximum Size of work piece:
L 2400 x W 1000 x H 1500
Powder Coaling: Electric Static Spray
Conveyor Speed: 3.5m/min (0.5~4.5)m/min adjustable.

SURFACE TREATMENT



HOT 7 Tank Surface Treatment
Capacity 7000 L Provides complete surface
Treatment which involves processes like
Degreasing, Rinsing, Derusting, Cleaning
& Rinsing, Cleaning, Activation, Phosphating,
Rinsing & Passivation.

POWDER COATING LINE



Powder Coating Booth, India Fully Automatic Conveyorized Powder Coating Plant suitable for epoxy base Polyester Coating.

GASKETING MACHINE



Gasketing Machine (Make- Sonderhoff, Germany) Working Length 30X



PRODUCT INDEX

| Product Group | Product Sub Group | Page No. | |
|---|---|-------------|--|
| Junction Box (Bare & Wired) | MS Junction Box SS Junction Box FRP Junction Box Aluminum Box Aluminum Die Casted Box Galvanized Box Bare Control Post Terminal Box Push Button Box Wired Control Post Electrical Box | 07 | |
| 19" Rack | ALCOSY RACK | | |
| Bare Panel | Fecosy: 8 – Fold Panel Fecosy: 5 – Fold Panel Alcosy: Panel Self Standing Rack Dry Panel Wet Panel SS Panel Cylinder Rack 19 " Rack Headers | | |
| LIE / LIR | Hook Up Scheme Spares Local Gauge Board Local Instrument Enclosure Local Instrument Rack Instrument Enclosure Box | 09 | |
| NG-LAVT | Neutral Grounding Lightning Arrestor Voltage Transformer | 09 | |
| Console | Computer Console CRT Desk Printer Table Server Desk | 10 | |
| Shelter | MS Shelter SS Shelter | 10 | |
| Mosaic Panel / Desk | Mosaic Desk Mosaic Panel Unit Control Desk (MOSAIC) | 11 | |
| Mimic Panel / Desk | Mimic Desk Mimic Panel Unit Control Panel (MIMIC) | 11 | |
| Purge & Ex-Proof Panel II A/B Purge Panel II C Purge Panel Ex — Proof Panel | | 12 | |

| Product Group | Product Sub Group | |
|------------------------|--|----|
| Wired Panel | Control & Relay Panel Synchronising Panel Protection Panel General Panel (MOSAIC / MIMIC) Metering 11/33 KV PLC Panel Marshalling Panel RTU Panel I/O Panel Power Distribution Box Annunciator Panel Transducer Panel C & I Panel Drive Panel SIC / MC Panel Electrical Panel / Wired Panel Apex Panel 19 " Rack Apex Panel RLM Units Injector Panel HT Metering Draw Out MCC MCC ENCLOSURE Power Distribution Board Non — Draw Out MCC Power Control Center Automatic Power Factor Correction Panel (APFC) | |
| MCC & PCC Panel | | |
| Lighting Panel | Lighting Distribution Board Lighting Panel | 15 |
| GI-Pole | GI-Pole | 15 |
| HT Panel | 11 KV 6.6 KV 3.3 KV | 16 |
| HT Compact Sub Station | HT Compact | 16 |
| LVS / Videowalls | LCD Display LCD Mosaic Tiles Spares Video Wall | 17 |
| Misc | Covers (Side Panel, Doors) CHEVAL RACK Free Issue Material Trolley Extn. Chamber VM Truck Assembly | 17 |



Junction Box -









Construction:

Welded, Al Die casted, FRP

Application:

From simple terminal enclosure to sophisticated electronic equipment .

Features:

- JB are available for wall mounting as well as floor mounting.
- · JB can be wired as per your drawings.

Protection: Max IP 66

19" Rack Panel -





Construction:

Non welded (Alcosy) technology, AL members and AL sheets.

Application:

Mainly used for Defense / Navy mobile application (Tested as per JS 55555)

- ** Our 19" types rack are specified in terms of 12U, 15U, 18U, 22U, 24U, 26U, 30U, 32U, 34U, 36U and up to 48U customization possible as per customer requirement.
- · Rack can be wired as per your scheme.



Fecosy 5 Fold-



Construction: Fecosy

Application:

Power Plant, Process plant

Feature:

- The rigid 5Fold sections provides a very stable framework, moreover the recessed side sheets provide extra strength to the cubicle. The folding of the sheets make the frame structure lighter and stronger than traditional construction system of making structure frame with MS angles and flats.
- · Panels can be wired as per your scheme.

Protection: IP 55

Bare Panel 8 Fold -



Construction:

Specially designed 8 Fold galvanized rolled section .

Application:

Power Plant, Process plant, Metering, Cement plants

Feature :

- · High strength, Rigidity, Durability
- · Panels can be wired as per your scheme.

Protection: IP 55

Bare Panel Alcosy



Construction: ALCOSY

Application: Power Plant, Process plant

Feature:

- Strength: The Various members and profiles allow Various degree of strength
- Flexibility: The flexibility of choosing the profile by just changing the corners. Internal fixture are totally flexible with continuous groove in the member.
- Panels can be wired as per your scheme.
- Due to non welded framework members, good dimensional accuracy can be achieved.

Protection: IP 55



LIE-LIR -



Local Instrumentation Enclosure Local Instrumentation Rack

Construction:

Alcosy -30

Application:

Power Plant

Feature:

- It is used for measuring of process variables like pressure, flow and level of gas, steam or fluid and temperature.
- Bulkhead, purge air, Instrument piping and tubing, junction box along with Racks /enclosures.

Protection:

Max IP-65, complete protection against water and dust.

Ng & Lavt Cubicle



Construction: Welded

Application: Power Plant

Features:

- These LAVT cubicle are enclosure for housing:
 - Lightening Arrestor (L.A.)
 - Surge Capacitor (S.C.)
 - Voltage Transformer (V.T.)
- NG Cubicle is a enclosure for installation of :
 - Neutral Grounding Transformer (N.G.T.)
 - Neutral Grounding Resistance (N.G.R.)
 - Current Transformer (C.T.)

Complete with Bus Bar & Rack, with Transformers $+\ LA$ can be (Optial)

Protection: IP 54 & IP 55



Console -



Construction:

Welded, Alcosy, 8 Fold, 5 Fold with Wooden top.

Application: Power Plant & Process Plant

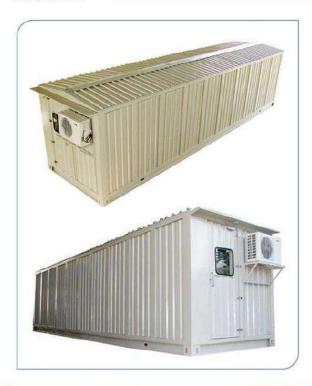
Features:

- Used as computer console in control room.
- · Durable with high aesthetics
- Ergonomic design for ease of operation for 24x7 working.

Protection: IP 54



Shelter



Construction:

Welded

Application:

Oil, Gas & Chemical Plant

Feature:

- · Used as analyzer and sample processing unit, E-rooms
- · Fully insulated
- No condensation
- Very low heat gain from direct sunlight, fully dust and moisture free.

Protection:

Weatherproof, corrosion protection against Acid & Caustics . Up to IP-65



Mosaic Desk / Panel



Construction:

Alcosy & Welded

Application:

Process Plant, Power Plant

Features:

- Mosaic based miniature type switches and indicators modules used for operation.
- Mosaic tile system is one of the most planner friendly, reliable and economical approach to process visualization and control.
- · Used for Miniature Control Room.

Protection:

IP 30

Mimic Desk / Panel



Construction:

Alcosy, Welded

Application:

Processing plant, Power Plant

Features:

- P & I Diagram of the plant
- · Coupled Wire as per your scheme.

Protection:

IP 54



Purge & Ex-proof -



Construction:

Alcosy -30, Welded , $50 \times 50 \times 4$ Angle frame .

Application:

Oil, Gas & Chemical Industry

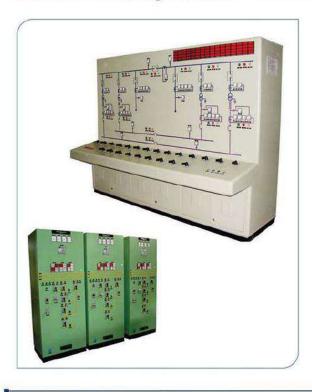
Features:

- Purging panels are designed and developed for safe use of electrical products in high explosive areas.
- Purging is done as per NFPA 496,
- Purging Enclosure, Explosion Proof Enclosures
 & Normal Enclosures

Protection:

Max IP-65

Control & Relay Panels



Construction:

Alcosy, Welded.

Application:

Sub Station, Power Plant

Features:

- It is used for housing of various kinds of relays like auxiliary relays and protection relays.
- We provide fully engineered panel from your single line diagram to the complete solution.
- We supply the relay interlocking hardwired console with time delay circuits.

Protection:

IP- 54



Synchronization Panel



Construction: Alcosy, Welded.

Application:

Power Plant, Control Room, Generator Control Room, Back up Control Panel, ECP, SCADA DCS Backup

Features:

- To synchronize the two different frequency of power
- · Occupies less space
- Mosaic Type & Sheet Metal Panel

Protection: Mosaic IP-31, Sheet Metal IP-54



Marshalling Panels



Construction:

Welded, Alcosy.

Application:

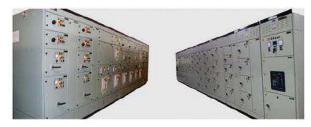
Process Plant & Power Plant.

- Marshalling panels are used for the marshalling of field cables and as an interface between the field equipments and control room panels /cabinets.
- Two standard type of cable termination arrangements, wire wrapping type (Maxitermi) and standard terminals are provided.
- Prefabricated cables, large core dia Cable, Multicore cables are used for interfacing.



Motor Control Center (MCC) Panel





Construction:

Welded, Semi Welded (Bolted)

Application: Process Plant, Power Plant

Features:

- Our MCC are made in fully compartmentalized modular design cabinet system designed for powering and controlling motors.
- As per standards IS 8623 & IEC 60439
- Our MCC are two types (1) Fixed Type MCC (2) Drawout MCC Provision of single front and double front.

Protection:

IP 53/54/55

Power Control Center (PCC) -



Construction:

Welded, Semi Welded (Bolted)

Application:

Process Plant, Power Plant

Features:

Power control centers (PCCs) normally comprise of either breaker panels only or breaker and MCC Panel coupled together (PMCCs)

- Breaker Panels can be offered in single or two tier configurations.
- Breaker Panels are suitable either for cable or bus duct entry from Top or Bottom.

Protection:

IP-53/54/55



Lighting Panel -



Construction: Welded.

Application: Process Plant, Power Plant

Features:

- Robust Construction
- · Corrosion Resistant
- · Superior Quality
- Durable Life
- · Meeting International Standard
- Modular Design
- Approved by NTPC / BHEL / MECON / EL / TCS & all major OEMS

Protection: IP-55 to IP-65



Lighting Pole



Construction:

GI Pipes

Applications:

- · Traffic Signal
- · Lighting Pole
- CCTV Pole
- Gantry Pole

- Galvanized, round shape steel pole.
- Weathering Steel Material Used
- Robust Construction
- Camouflaged Junction Box & Electronic Control Panel
- · Waterproof Flush Door and Locking Facility
- Rugged, maintenance free, corrosion free and easy to install.
- Designed in accordance with ISS publication



HT Panel



Construction: Welded, Fecosy

Application:

HT panels are generally used for controlling high voltage side of any instrument or at substations.

Features:

- Protection & Metering of feeder, Transformer & Motor.
- 11KV VCB indoor panel/ outdoor kiosk
- Current Rating 630/1250/1600/2000Amp
- Rupturing Capacity: 20/25/31.5/40 KA

OUTDOOR PANEL

HT Panels/Kiosks are used for providing Protection & Metering for HT feeders and is a vital link for electricity distribution.

INDOOR PANEL

Multipanels for indoor factory/ substation use which metering for H.T. distribution.



Compact Sub Station



Construction:

Welded

Applications:

Airports, Malls, Industries, Complexes

Features:

- · Installation where space is premium.
- Designed to withstand surrounding temperature, humidity & condensation, rain, solar radiation.
- Designed keeping in mind the Dielectric & Thermal isolation.
- Indigenously designed & tested for fast & easy installations.
- · High life expectancy under normal operating conditions.
- · Maintenance free.

Compartments:

- H T Breaker
- Distribution Transformer
- · LV Distribution Board



Videowalls



DLP-LED Based

| $\stackrel{\square}{\longrightarrow}$ | 1024 x 768 | 1400 x 1050 | 1920 x 1080 |
|---------------------------------------|------------|-------------|-------------|
| 50" | V | 1 | V |
| 67" | 1 | 1 | |
| 70" | | | 1 |
| 80" | / | 1 | |

- · Videowalls are seamless rear projection display units based on "Digital Light Processing (DLP)" technology with LED based light source.
- · Large-screen projected images are replacing fixed displays with dynamic real-time solutions.
- · Also LCD based super narrow bezel videowalls.

Feature:

- · Videowalls can be joint together to form a big projection screen.
- · For monitoring the plant conditions and controlling the same. Suitability for running 24x7 applications.
- Flexibility of acquisition of various graphics & Video sources.
- We represent Planar, (Formerly known as Clarity & Synelec) & Pyrotech make in India.









Server Cabinet

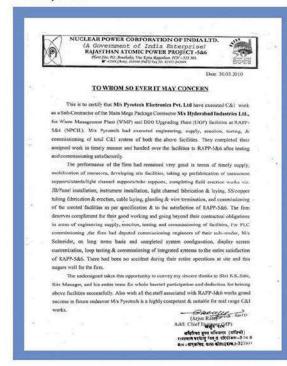


- 1200 Kg. Static Load Rated.
- Overall height on casters just under 2.00 meters.
- · Contoured high density perforated door provides over 1,000 square inches that open area exceeding major IT equipment air flow requirements.
- · Light weight and strong.
- · Net Weight (including casters) 98 Kg.
- · Split level side panels provide convenient access to installed equipment.
- Depth adjustable 19" vertical mounting rails in 5mm increments.
- "U" numbers printed on 19" rails.
- · Knock down design for efficient shipping, 128 sets per 40' container.
- · Quick assembly time, approximately 25 minutes.
- · Quick release, field reversible single piece or split doors.



APPRECIATION FROM END USERS & MAJOR CUSTOMERS

NPCIL, Kota



INTELLIGENT AIR

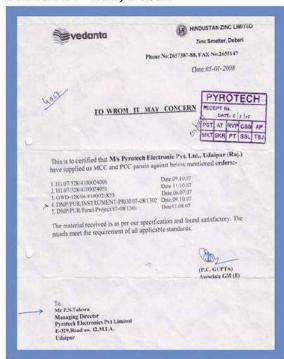


INDIAN RAYON - ADITYA BIRLA GROUP



VEDANTA - HZL, Debari

0

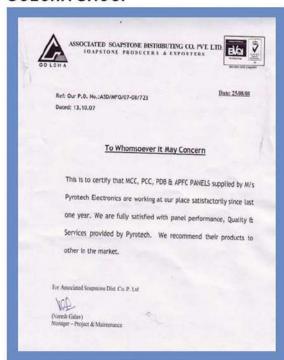




MECON LIMITED, JHARKHAND



GOLCHA GROUP



BARC - MUMBAI



Clients who believes in us....































































Various Applications At

- Industry Cement & Mining Oil & Gas
 - Aluminum Plant
 Chemical Industry
- Power Plants
 Infrastructure
 Commercial / Building

















HEAD OFFICE AND FACTORY:

E-329, Road No.12, Mewar Industrial Area, Udaipur-313003, Rajasthan, India Ph:+91-294-2492122/31/34, Fax:2492130 E-mail: pyrotech@pyrotechindia.com, marketing@pyrotechindia.com

NOIDA OFFICE:

C-140, Sector 63, Nodia-201301 (Uttar Pradesh) Mobile: +91-88004 88792 E-mail: pmppl@pyrotechindia.com electricals@pyrotechindia.com

BENGALURU OFFICE:

Pyrotech Electronics Pvt. Ltd. (Southern Regional Office) No. 22, 13th Main, NHCS Layout, Vijaynagar, Bengaluru - 560 040 Ph.:+91-80-23509680

Ph.:+91-80-23509680 Fax:+91-80-23509680

E-mail: bangalore@pyrotechindia.com

OTHER OFFICES:

Ahmedabad 093761 26045
Bengaluru 093428 16887
Bhopal 094250 16016
Hyderabad 093913 57063
Kolkata 093391 99881
Mumbai 093226 76597
Chennai 093641 87225



An ISO 9001, EMS 14001, OHSAS 18001 Company

PYROTECH ELECTRONICS PVT. LTD. UNIT-II & IV

Mewar Industrial Area, Madri, Udaipur-313003, Rajasthan, India

Pyrotech Electronics Pvt. Ltd was established in 1976 at Udaipur, Rajasthan having more than 35 years experience in Turnkey control room interiors, Mosaic Panels & Desks, Control Panels & Desks, other Industrial Panels, Junction Boxes & Racks and more than 10 years experience of Supply, Installation & Commissioning in video wall market. We have our reach to the Power, Energy G/D/T, Oil & Gas, Metal, Transport, Defense & Cement industries etc.