



Innovative, Sustainable & Qualitative
CONTROL PANEL ENCLOSURES



GPZ ENGINEERS PVT. LTD.

An ISO 9001:2015 Certified

www.gpzepl.com



ABOUT GPZ

GPZ Engineers Pvt. Ltd. provides a versatile solutions in Sheet Metal Fabrication while possessing expertise in Control Panel Enclosure, Modular MCC/PCC/PLC Panel Enclosure, Junction Box, Terminal Box, Electronic Equipment Housing, EV Power Distribution Unit (PDU), Distributions Boards, Battery Racks, Controller Pendant, Control Station, Controller PC Enclosure, Operator Station, Outdoor Enclosures / Canopies, Control Room Enclosures, PC Enclosures, Generator / Gas Skid Canopies, Server Rack, Switch Box and many more related applications.

Our proven design ensures IP 55 and above degree of protection for control panels & up to IP 67 for junction box like products to suit customer needs.

GPZ provides design and fabrication of wide range of enclosures in MSCRCA, G.I. and Stainless Steel depending upon customer requirement. Our customized solution & innovative designs comply specified end user specification, international regulations and set standards.

We are team of subject industry expert engineers, where excellence is not just word but a habit. Our parent organisation Prescient Automation, founded in 2010, focusing main aim to help the customer with innovative customized solution

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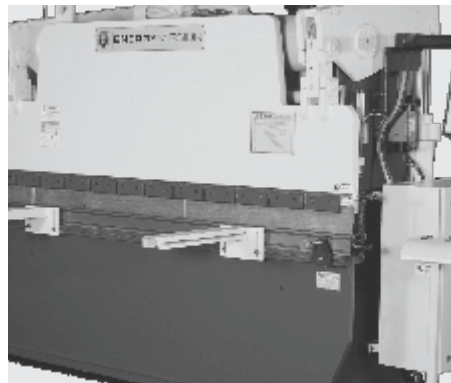
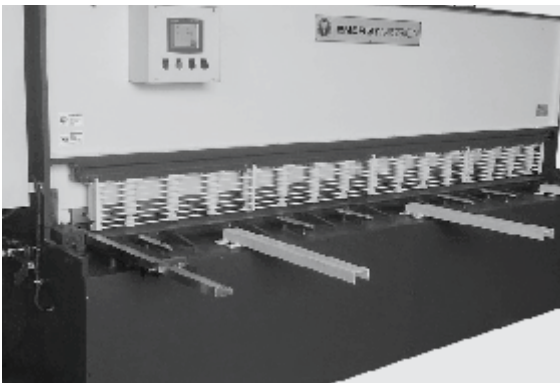
We Contribute in your success by providing innovative and sustainable products to help take your product to the next level of excellence.

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and efficient ways, through the delivery of our effective and timely products and services in considerable economic ways. GPZ is where technology and engineering come together to create solutions for the benefit of our customers, driven without compromise for a world in action.

GPZ has developed a Quality Management System confirming to the requirements of ISO 9001:2015 International standard that has been effectively implemented, monitored & measured to achieve Continual Improvement.

In addition to this we have successfully acquired CE certification for our enclosures whereby we ensures our products meets or exceeds requirement outlined by European customers. This will help our end user to acquire CE certificate for their final product.



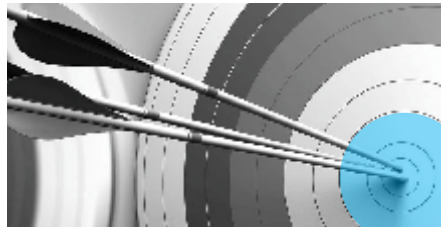
FACILITY IN A NUTSHELL

- Fiber Laser Cutting Machine (HSG) - 2 KW 1 no.
- CNC Press Brake Bending Machine - 80 tons / 6 mm 1 no.
- NC Shearing Machine - 6 mm 1 no.
- MIG/TIG Welding Machine - Reputed Brands 8 nos.
- Stud Welding Machine - 3 mm to 12 mm 1 no.
- ZG Flexible Shaft Grinder - Variable speed 1 no.
- Pneumatic Nut Insert Tool (Spin pull riveter MS / SS) - 3 mm to 12 mm 1 no.
- Conventional Setup - Finishing Tools
Drill Machines
Inspection Tools



VISION

To be a global player in sheet metal enclosure fabrication industry driven by innovatively designed, best in class, user friendly, and economical product range.



MISSION

To be first choice of a satisfied customer with innovative designs, latest technology sourcing, exceptional quality, consistent timely delivery of product and services.

CERTIFICATION



ISO 9001:2015



CE



TBB - IP67
Terminal Box Bolted



MEP - IP55
Modular Extendable Panel



CPS/CPD-IP55
Control Panel Box Single/Double Door



CPS/CPD-IP65
Control Panel Door-in-door



CORE VALUES

Grow

We strive to grow along with our customers on each front.



Understand

Understand customers and requirements. We strive to be a good listener



Integrity

Our actions shall result trust and confidence among customer and ourselves.



Provide

Customer Satisfaction, Best in class service.



Innovative

We always explore simple and most suitable solutions utilizing subject excellence.



Committed

We stay committed to customer with punctuality and honesty.



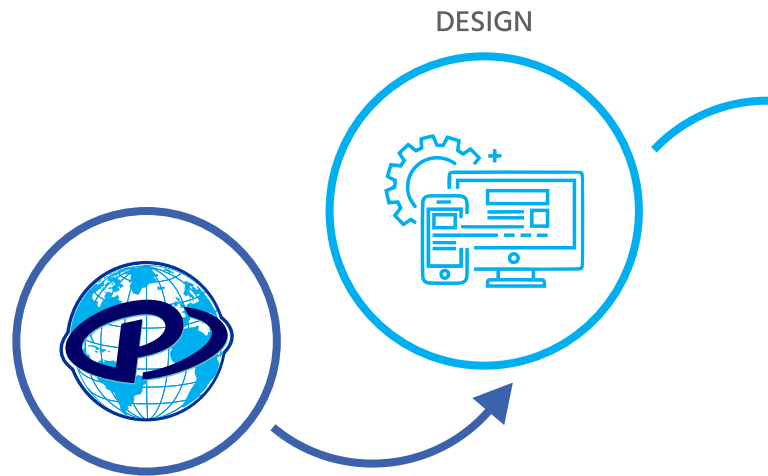
Zeal

We possess strong willingness to take the challenges and passionate to achieve the desired.

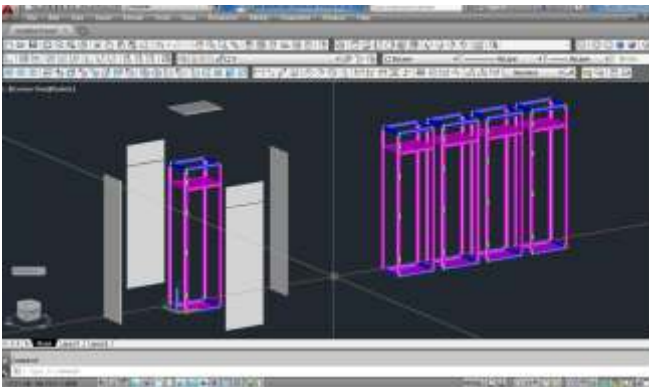


The Manufacturing Process

We have dedicated 5000 sq ft. fabrication setup located in Chikhali, Pune. Our setup is equipped with latest technologically viable and best suited CNC machines and driven by efficient and experienced team of engineers, operators, welders, fitters and assemblers. The entire manufacturing process is aligned to obtain best use of technology and highest degree of controlled quality products and practices. We have outlined roles and responsibilities at each stage of manufacturing process to turn, on paper customer requirements into a best suited reality.



Design

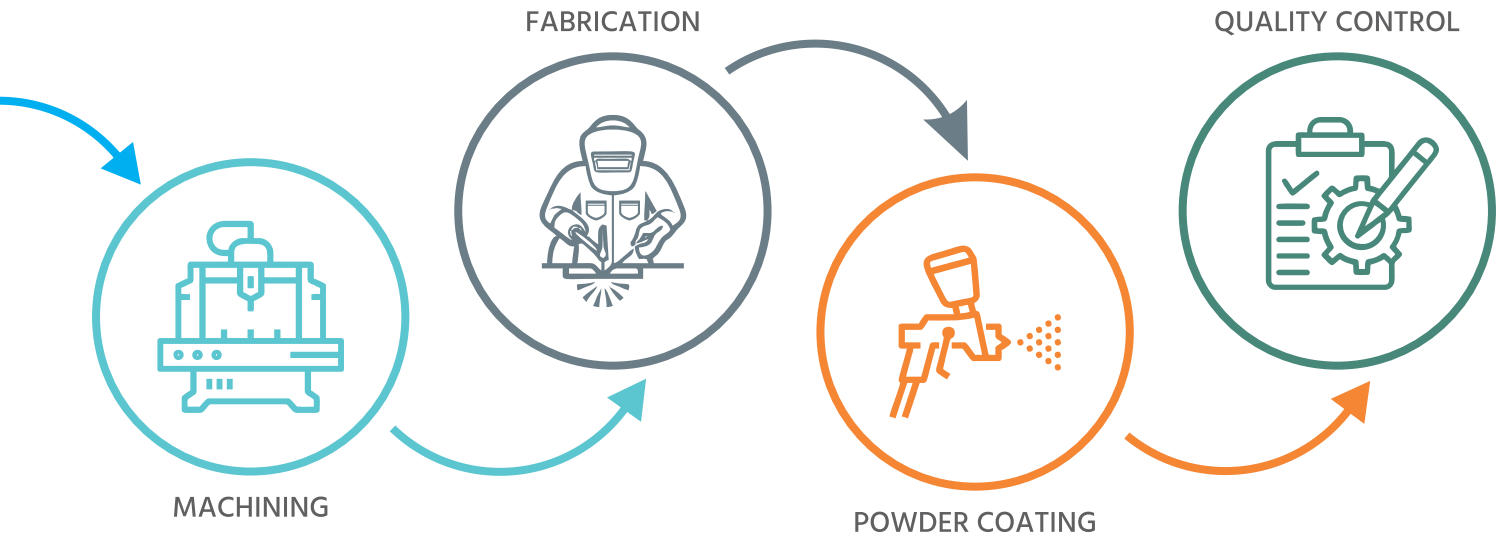


Our industry experienced team of engineers crafts the customer requirement utilizing advance sheet metal software AUTOCAD & SOLIDWORKS. A better design is incepted to fulfill each smaller customer requirement with high end visualization. All designs then are verified by customer and superiors before processing below the tools.

Machining Process



We have well established and highly modernized machines to convert raw material into accurate and precise end product. Machine shop is equipped with best in class Laser Cutting Machine, CNC Bending Machine, CNC Shearing Machine and versatile tooling to process almost every size and shape required. Experienced and technically sound work force gives a precise touch to the job with in process inspection in place, making a errorless machining process possible.



Fabrication Process



We have team of well experienced fitters, welders and assembler for giving shape to final product by using modernized TIG/MIG welding machines. Finishing plays a vital role how final job looks. Our finishing team ensures a smooth profile post welding and all excess burrs/spatter removed before processing the job for powder coating / assembly.

Powder Coating Process



Our powder coating facility ensures seven tank surface preparation to modernized oven which gives high quality of surface finish with required DFT. Automatic temperature monitored oven ensures precise and consistent curing. Overall process is monitored and ensures surface finish & adhesion test.

Quality Control



A dedicated quality control team ensures outlined procedures are adhered and final job excels the requirements. All in process inspections are regularized and necessarily recorded to ensure in process quality check. Quality is achieved by team efforts where each individual pays full attention towards common quality objective.

PC CONSOLE

Operating Station Console / Work station Console



Applications

PC Console / Control room Console / Operating Station Console / DCS Console / Engineering Workstation Console / Printer Desk / Control Room Desk etc.

Material

BODY - MSCRCA

TOP - MSCRCA / SS304 /
MDF WITH LAMINATE

Thickness

1.5 mm / 2 mm / 3 mm

Standard Sizes

Salient Features

- Console can be customized as per customer drawing.
- Mounting plate at side for spike buster, MCB, terminals mounting.
- Cable Managers shall be provided on top for cable entry.
- Stand alone, bayed, curved, trapezoidal arrangement can be furnished.
- Horizontal sliding tray shall be provided for CPU to assist easy access.
- Sliding keyboard provided for comfortable working while not in use.
- Side by side, Dual Monitor arrangement with suitable swivel brackets.
- Powder coating with 7 tank process will be done to required shade. RAL7032/RAL 7035/RAL 7012 etc.

| Sr. No. | Description | Size in mm | | | | |
|---------|--------------------------------------|------------|-------|----------|-----------|--------|
| | | Height | Width | Depth. B | Depth Top | Plinth |
| 1. | Single Monitor PC Console | 700 | 700 | 650 | 1000 | 100 |
| 2. | Dual Monitor PC Console | 700 | 700 | 650 | 1000 | 100 |
| 3. | Side By side Monitor PC Console | 700 | 1200 | 650 | 1000 | 100 |
| 4. | Side By side Dual Monitor PC Console | 700 | 1200 | 650 | 1000 | 100 |







Control Desk

One Piece Consoles / Operator Station



Applications

Control Desk / Operator Station / Operating Console / One Piece Consoles.

Material

MSCRCA / GI / SS 304 / SS 316

Thickness

1.5 mm / 2 mm / 3 mm

Standard Sizes

Salient Features

- Console can be customized as per customer drawing.
- Welded body with sides, top and bottom closed in 1.5/2.00 thk folded CRCA sheet.
- Ergonomic standard design for operator ease in standing position.
- Mounting plates are provided in rear for necessary mountings.
- It will come with good ingress protection of IP-55.
- All necessary cut out for operating/control and monitoring can be provided.
- Powder coating with 7 tank process will be done to required shade. RAL7032/RAL 7035/RAL 7012 etc.

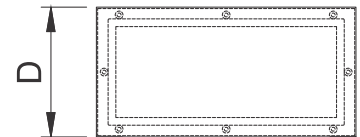
| Sr. No. | Description | Size in mm | | | |
|---------|--------------------------------------|------------|-------|-------|--------|
| | | Height | Width | Depth | Plinth |
| 1. | Single Monitor PC Console | 960 | 600 | 400 | 100 |
| 2. | Dual Monitor PC Console | 960 | 800 | 400 | 100 |
| 3. | Side By side Monitor PC Console | 960 | 1000 | 400 | 100 |
| 4. | Side By side Dual Monitor PC Console | 960 | 1200 | 400 | 100 |

TBB

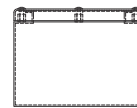
Terminal Box Enclosure Bolted / Distribution Box Enclosure



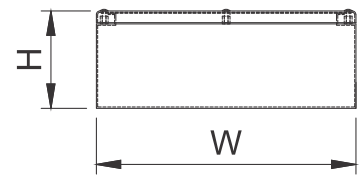
H = Height
W = Width
D = Depth



TOP VIEW



SIDE VIEW



FRONT VIEW

Applications

Terminal Box / Junction Box / Switch Box / Distribution Box / Electronic Housing / Extension Box / MCB Box / Control Box / Any other Utility Box.

Material

MSCRCA / GI / SS 304 / SS 316 / SS 316L

Thickness

1.5 mm / 2 mm / 3 mm

Sizes

Height : 200 mm to 600 mm

Width : 200 mm to 600 mm

Depth : 150 mm to 600 mm

Base : AS per Requirement, Normally
Wall / Machine / Structure Mount

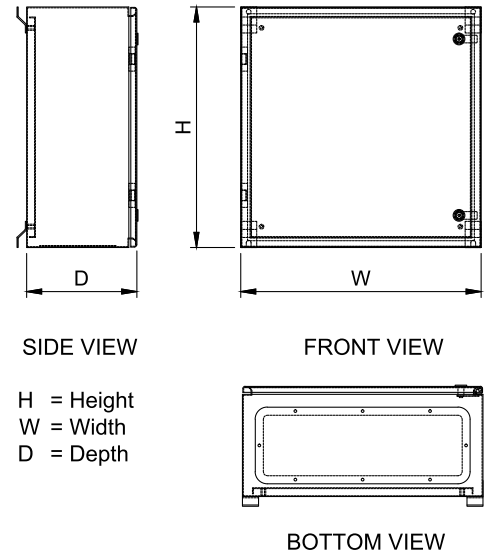
Salient Features

- Enclosure can be customized as per customer drawing.
- Mounting plate can be supplied in GI (120 gsm) / MS CRCA Powder Coated.
- Cable entry holes, cut out can be provided as per customer requirement.
- It can be delivered with Din rail/Mounting plate attachments as per user requirement.
- Powder coating with 7 tank process will be done to required shade. RAL 7032/RAL 7035/RAL 7012 etc.
- Door fixing using nut insert / rivet nut / welded bush.
- Ingress Protection achievable: IP67



CPS

Control Panel Enclosure (Single Door)



Applications

Junction Box Enclosure/ Control Panel Enclosure / RIO Panel / VFD Panel / Machine Control Panel/ Power Distribution Panel Enclosure/ AMF Panel Enclosure / CCTV Housing/ Electronic Housing/ MCB Housing etc.

Material

MSCRCA / GI / SS 304 / SS 316 / SS 316L

Thickness

1.5 mm / 2 mm / 3 mm

Sizes

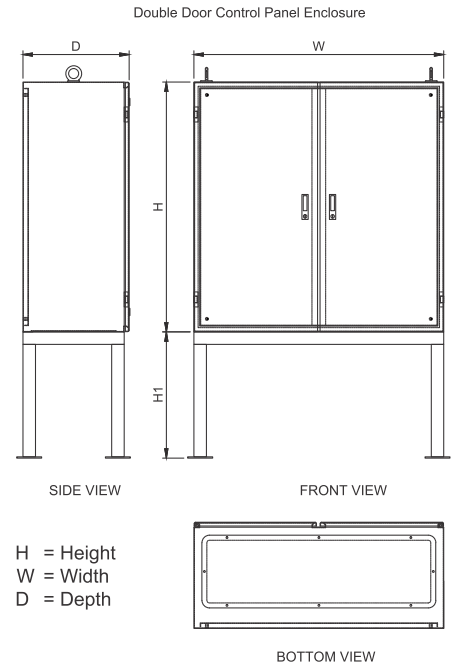
Height : 200 mm to 1250 mm
Width : 200 mm x 800 mm
Depth : 150 mm to 500 mm
Base : AS per Requirement
Wall Mount / Base Frame

Salient Features

- Enclosure can be customized as per customer drawing.
- Mounting plate can be supplied in GI (120 gsm) / MS CRCA Powder Coated.
- Cable entry holes, cut out can be provided as per customer detailing.
- Separate removable gland plate can be provided for larger size.
- Sufficient number of cable tray support/ Door cable supports can provided as per drawing.
- Powder coating with 7 tank process will be done to required shade. RAL7032/RAL 7035/RAL 7012 etc.
- Multipoint Locking for sizes above 1000mm.
- Can be designed for outdoor/hygienic application.
- Ingress Protection: IP 55

CPD

Control Panel Enclosure (Double door)



Applications

Junction Box Enclosure / Control Panel Enclosure / RIO Panel / VFD Panel / Machine Control Panel / Power Distribution Panel Enclosure / AMF Panel Enclosure / PLC Panel / MCC Panel / ACDB Panel / Electronic Housing / MCB Housing etc .



Material

MSCRCA / GI / SS 304 / SS 316 / SS 316L



Thickness

1.5 mm / 2 mm / 3 mm



Sizes

Height : 800 mm to 1500 mm

Width : 800 mm to 1500 mm

Depth : 300 mm to 500 mm

Base : AS per Requirement
Wall Mount / Base Frame



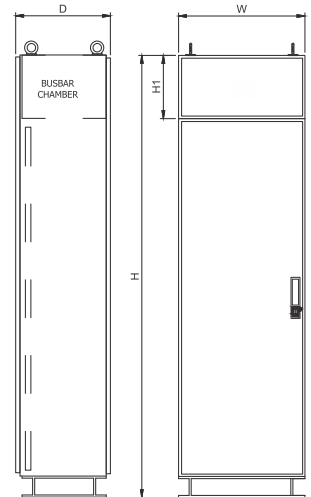
Salient Features

- Enclosure can be customized as per customer drawing.
- Mounting plate can be supplied in GI (120 gsm) / MS CRCA Powder Coated.
- Cable entry holes, Door cut out can be provided as per customer detailing.
- Sufficient number of cable tray support/ Door cable supports can provided as per drawing.
- It comes with removable gland plate for cable entry/exit holes.
- Powder coating with 7 tank process will be done to required shade. RAL 7032/RAL 7035/RAL 7012 etc.
- Multipoint Locking for sizes above 1000mm.
- Can be designed for outdoor/hygienic application with canopies.
- Ingress Protection: IP 55.

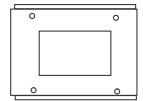


MEP

Modular Extendable Panel/MCC/PLC



SIDE VIEW
FRONT VIEW
H = Height
W = Width
D = Depth



Salient Features

- Enclosure can be customized as per customer drawing.
- It is Modular extensible Design Panel, can be extended by bolting interconnection to desired length.
- Cable entry holes/Door mounting Cut out can be provided as per customer detailing.
- Provision of Perforated angles on all sides provides highest degree of flexibility for mounting and wiring.
- Cable entry provision from bottom/top with removable gland plates.
- 19" Rack DIN standards mounting arrangement is possible.
- Single Module structure can be made in width of 1800mm with split doors.
- Provision for bus bar chamber/ Partition plate/ ACB mounting/MIMIC panel/ Glass windows can be provided as per customer requirement.
- Due to Modular design it is very easy for transportation and simple bolting assembly between modules at site or wiring location.
- Mounting plate can be supplied in GI (120 gsm) / MS CRCA Powder Coated.
- This modular design achieved Ingress protection of IP 55.



Applications

Control Panel / MCC Panel / PLC Panel / MIMIC Panel / Automation Panel / PCC Panel / Electrical Panel / Process Control Panel / ACDB Panel / Power Distribution Panel / ACB Panel / APFC Panel etc.



Material

MSCRCA



Thickness

1.5 mm / 2 mm / 3 mm



Sizes

Height : 1000 mm to 2200 mm
 Width : 500 mm x 1800 mm
 Any width possible by module connection/baying
 Depth : 300 mm to 600 mm
 Base : Base Frame
 75 mm / 100 mm / 200 mm

WCP

Compartmental Panel Enclosure



Applications

Control Panel / MCC Panel / PLC Panel / MIMIC Panel / Automation Panel / PCC Panel / Electrical Panel / Process Control Panel / ACDB Panel / Power Distribution Panel / ACB Panel / APFC Panel etc.



Material

MSCRCA / GI / SS 304



Thickness

1.5 mm / 2 mm / 3 mm



Sizes

Height : 1000 mm to 2200 mm

Width : Modules / Compartments of 300/
400/450/500/600/700 & 800 mm.

Depth : 400 mm to 1000 mm

Base : Base Frame
100 mm / 150 mm / 200 mm



Salient Features

- Enclosure can be customized as per customer drawing.
- Cable entry holes/Door Mounting Cut out can be provided as per customer detailing.
- Cable entry provision from bottom/top with removable gland plates.
- Easy detachable doors for ease in mounting and wiring. Access door from front & back possible.
- Angular mounting of terminal support in cable chamber for ease of wiring.
- Powder coating with 7 tank process will be done to required shade. RAL 7032/RAL 7035/RAL 7012 etc.
- Mounting plate can be supplied in GI (120 gsm) / MS CRCA Powder Coated.
- Sufficient number of cable tray support/bus bar support/Door cable supports are provided as per drawing.
- The best IP protection of IP 54 can be achieved.



Convention Center Floor Utility Box



Public assembly facilities such as convention centers, exhibit halls and stadiums often require a diverse range of utility services including power, data, audio, video, voice, compressed air and water in open floor space. Precient floor box meets all these requirement.

The internal components are custom manufactured to the end user's needs. The multiple enclosure types make it so the customer can choose the box that will fit their every need.

GPZ offers floor utility boxes to accommodate any electricity / utility water / compressed air / AV ports. It can be engineered in various sizes / compartments / utilities as of end user needs.

Series Products applications include: exhibition halls, hotels, casinos, ballrooms, arenas, stadiums and performing arts facilities. These products are also recommended for use at universities and military and industrial facilities.

PMB-E

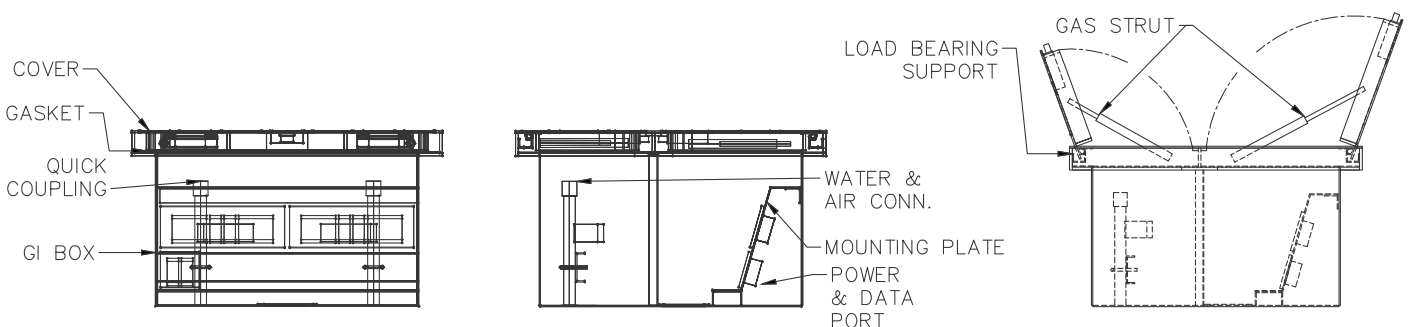
Floor Utility box for Power and data needs

- Stand alone power and data box
- Dimension: 450mm X 250mm X 300mm (h)
- Rigid construction
- Customizable to customer requirement
- Powder coated to required color

PMB-EWA

All in one Floor utility box for Electrical / Water and & air Needs

- Dual door Utility station for all your Electricity/Data/AV/Comp. Air/ water needs
- Dimension: 530mm X 530mm X 430mm
- Separate Compartment for water/air connections
- NPT/Quick hose coupling for water/air utilities
- Easy mounting and alignment
- Utilities connection can be engineered to
- Customer requirement



Custom Enclosures and Canopies



Gas Metering Skid Canopy



Control Desk



Control Station



PC Enclosure



MCC Panel with Canopy



HMI Panel



Push Button Box



EV PDU / Connector Box



Supply Chain Solutions

We have successfully demonstrated supply chain solution and provided timely delivery of 1000 AMF panels per month to our esteemed client.

With dedicated manpower for supply chain works and assembly line and round "o" clock operation we can tackle supply chain needs of Electric Genset Manufacturer, Solar Plant, EPC Major's, Oil & Gas Clients, Crane Builders, SPM Manufacturers, Export Agents, City & Infrastructure Development Companies.

We have successfully delivered 3972 assembled AMF panels to our client in challenging span of 90 days. This has been done in our well-equipped production line setup for AMF panels and dedicated 2500 sq. ft. space for assembly line.



DATA FOR PROCESSED JOB

| Sr. Nos. | Description | Total Qty. of Dispatch |
|----------|-------------------------------|------------------------|
| 1 | AMF - ASAS Logic Panel | 644 |
| 2 | AMF - 15 KVA 3 PH Panel B | 509 |
| 3 | AMF - 20 & 25 KVA 3PH Panel B | 547 |
| 4 | AMF - 30 KVA 3PH PANEL B | 413 |
| 5 | AMF - 40 KVA 3PH PANEL B | 345 |
| 6 | AMF - 45 KVA 3PH PANEL B | 361 |
| 7 | AMF - 62.5 KVA 3PH PANEL B | 469 |
| 8 | AMF - 82.5 KVA PANEL B | 375 |
| 9 | AMF - 125 KVA 3PH PANEL B | 205 |
| 10 | AMF - 160 KVA 3PH PANEL B | 105 |
| | Total | 3972 |

Our Clientele / End Clients

- Kumar Metal Industries
- Alfa Laval India Ltd.
- Neologic Engineers Pvt. Ltd.
- Kirloskar Oil Engines Ltd.
- MOJJ Engineering Systems Ltd.
- Oilex Engineers (India) Pvt. Ltd.
- Pall India Pvt. Ltd.
- INOXPA India Pvt Ltd.
- Thermax India Ltd.
- Fox Solutions Pvt. Ltd.
- Vanaz Engineers Ltd.
- SPX Flow India Pvt. Ltd.
- Emerson Process Management
- Glatt Systems Pvt. Ltd.
- Prescient Automation
- CEE Engineering Pvt. Ltd.



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