



DISCOVERY

EVERYTHING FOR INDUSTRY & SERVICES



LOW AND MEDIUM VOLTAGE

METAL CLAD, METAL ENCLOSED, G.I.S & R.M.U SWITCHGEARS AND SWITCHBOARDS

MEDIUM VOLTAGE METAL CLAD AIR INSULATED SWITCHGEAR

Metal Clad Switchgear line is a completely factory assembled integration of draw out switching devices ,bus, protective and control devices coordinated electrically or mechanically for MV distribution and protection. Metal Clad Switchgears are consist of 3 main and 1 auxiliary compartment which are separated between each other by metal plates, with its own MV switching device

Application Areas : Energy Generation and Distribution Facilities, Transformer Stations, Mines, Cement Industry, Petro -Chemical Industry, Coal Iron and Steel Industry, Pump Stations, Airports, Ports, Railways, Large Scaled Shopping Malls, Hotels, Business Centers, Hospitals, etc.



Suitable brand will be chose according to customer requiremd, project, for more information about dimensions & technical specification please contact with usand give us information for the brand of circuit breaker and your required origin we will choose suitable product from our manufacturers





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Applicable Standards
 HMS switchgears fully comply with the following international standards:

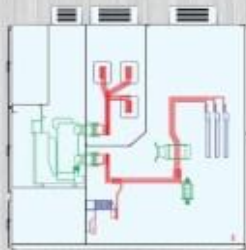
- ** IEC 62271-100 for circuit breakers
- ** IEC 62271-200 for switchgears
- ** IEC 60470 for contactors
- ** IEC 60694 for general purposes
- ** IEC 62271-102 for earthing switches

Design Concepts

Metal Clad Switchgears have been designed, manufactured, and type tested in line with our quality assurance program and IEC standards, ensuring:

- ** Maximum safety and reliability
- ** A minimum of maintenance, with all parts easily accessible
- ** A simple but flexible design
- ** Panels resistant to internal arc faults
- ** Switchgear modules with integrated interlocking and control boards.
- ** Circuit breakers, controls and switch-disconnector panels can be lined up.
- ** Easy installation

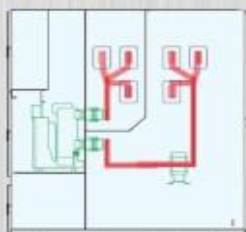
Incoming VCB Feeder Panel



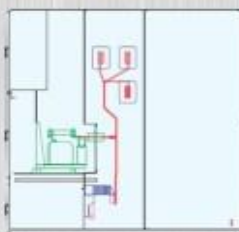
Outgoing VCB Feeder Panel



Bus Tie Panel



Bus PT Panel





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METAL CLAD, METAL ENCLOSED, G.I.S & R.M.U SWITCHGEARS AND SWITCHBOARDS

MEDIUM VOLTAGE METAL ENCLOSED MODULAR , G.I.S. AND RMU SWITCHGEARS



Gas Insulated Switchgear (Compact)

Designed for up to 36 kV systems as Ring Main Unit – RMU.

All switching and connection equipments are in a stainless steel tank which is filled with SF6 gas. Required type test for the safety of the operator and the facility have been applied to the switchgears which passed the tests successfully. Energized parts are isolated in IP 67 protection degree in case of any accidental touch against the dust, humidity, torrent and etc. They are manufactured at smaller sizes by using load break switch with SF6 gas. SF6 gas is used inside RMU for insulation and to extinguish the arc. Our Metal Enclosed SF6 Gas Insulated Compact Switchgear - Ring Main Units are ready for SCADA applications with GE General Electric protection and control relays. Our Ring Main Units are manufactured according to the relevant international and national standards like as IEC 60298, IEC 62271-200, BS EN 60298, TS EN 60298 to cover the request of customers with easy configurable and several types. It offers a choice of either a load break switch fuse combination or vacuum circuit breaker with relay protection of the customer. It can be designed with different configurations to apply customer requirements. A sealed stainless steel tank with constant atmospheric conditions ensures a high level of reliability as well as personal safety and virtually maintenance free system called no maintenance. It can be supplied in different configurations and combinations suitable for switching applications. It can be extensible and combined with the our Metal Enclosed SF6 Gas Insulated Modular Switchgears.

Air Insulated Switchgear

Designed for up to 36 kV systems. Required type test for the safety of the operator and the facility have been applied to the switchgears which passed the tests successfully. They are manufactured at smaller sizes by using load break switch with SF6 gas, rotary disconnector switch and disconnector switch with SF6 gas. SF6 gas is used inside the circuit breaker and load break switch for insulation and to extinguish the arc. All the other parts are in air medium. Our Metal Enclosed Air Insulated Switchgears are ready for SCADA applications with GE General Electric protection and control relays. Our switchgears are manufactured according to the relevant international and national standards like as IEC 60298, IEC 62271-200, BS EN 60298, TS EN 60298 to cover the request of customers with modular types, easy configurable and several types. It is also possible to make revisions, additions or modifications of the configuration for later requirements. Switchgears can be replaced with another functional unit easily. Connection between switchgears is made with tubular bus-bars. In standard manufacturing; nominal currents of bus-bars are 630 A or 1250 A according to customer requests.



- Full gas-insulation, providing protection against harsh environmental elements (including flooding), long service life and maintenance-free of live parts.
- Complete modularity and future extendibility, in both sides using the connecting set.
- Personal, property and equipment protection: internal arc withstand, in accordance with IEC 60298.
- Reduced size and weight, for easy handling and installation.
- Safe and simply operation, highly ergonomic operation components and additional interlocks included.
- Possibility of assembling accessories and performing tests under voltage.
- Front access, gas-insulated, horizontal fuse holder.
- Easy cable connection, with plug-in or screwed terminals.





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LOW VOLTAGE SWITCHBOARDS AND PANELS



Floor Standing Switchboard Enclosures (IP 55)

- Prefabricated and modular structure (Enclosures can be bayed side by side or back to back to form required combination)
- Zinc coated framework (4 vertical, 8 horizontal and special corner parts)
- High mechanical endurance
- Zinc coated and epoxy polyester powder painted doors and outer panels (Sealed with PU gasket)
- IP 55 Protection
- Large mounting component area. Versatile design which allows the user to fix components at 25 mm intervals either horizontally or vertically
- Rich and multi-functional mounting components



Monoblock Switchboard Enclosures (IP 66)

- Monoblock rigid body
- High mechanical endurance
- Epoxy polyester powder painted body and door (Sealed with PU gasket)
- Zinc coated mounting accessories
- IP 66 High protection
- Functional mounting components



1- Monoblock Console

- Welded monoblock rigid body
- High mechanical endurance
- Zinc coated and epoxy polyester powder painted body and door (Sealed with PU gasket)
- Zinc coated mounting accessories
- IP 55 protection
- Rich and multi-functional mounting components



2- Modular Console

- Prefabricated and modular structure (Consoles can be bayed side by side to form required combination)
- Zinc coated framework (4 vertical, 8 horizontal and special corner parts)
- High mechanical endurance
- Zinc coated and epoxy polyester powder painted desk section, doors and outer panels (Sealed with PU gasket)
- IP 55 Protection
- Large mounting component area. Versatile design which allows the user to fix components at 25 mm intervals either horizontally or vertically
- Rich and multi-functional mounting components



3- Monitor Type Console

- Prefabricated and modular structure (Consoles can be bayed side by side to form required combination)
- Zinc coated framework (4 vertical, 8 horizontal and special corner parts)
- High mechanical endurance
- Zinc coated and epoxy polyester powder painted desk & monitoring section, doors and outer panels (Sealed with PU gasket)
- IP 55 Protection
- Large mounting component area. Versatile design which allows the user to fix components at 25 mm intervals either horizontally or vertically
- Rich and multi-functional mounting components



Junction Box (IP 67)

- Ideal for local distribution or/and cable junction applications which especially require high protection level.
- Monoblock rigid body
- High mechanical endurance and protection level for hard conditions (dusty and humid)
- Epoxy polyester powder painted body and door (Sealed with PU gasket)
- Zinc coated mounting plate
- IP 67 High protection



Outdoor Switchboard Enclosures (IP 55 - IP 66)

- Prefabricated structure
- Zinc coated framework (4 vertical, 8 horizontal and special corner parts)
- High mechanical endurance
- Zinc coated and epoxy polyester powder painted doors, roof module and outer panels (Sealed with PU gasket)
- IP 55 Protection
- Large mounting component area. Versatile design which allows the user to fix components at 25 mm intervals either horizontally or vertically
- Rich and multi-functional mounting components



Stainless Steel Switchboard Enclosures (Modular) & Consoles (IP 55)

- Prefabricated and modular structure (Enclosures can be bayed side by side or back to back to form required combination)
- Stainless Steel framework (4 vertical, 8 horizontal and special corner parts)
- High mechanical endurance
- Stainless Steel doors and outer panels (Sealed with PU gasket)
- IP 55 Protection
- Large mounting component area. Versatile design which allows the user to fix components at 25 mm intervals either horizontally or vertically
- Rich and multi-functional zinc coated mounting components

