
SHEET METAL KIOSK



Business Partners



General

Sheet metal kiosks are substations and distribution centers made of galvanized sheet in desired dimensions.

They are suitable for all types of MV cell and LV panel use. They are manufactured according to the project requirements in the desired number of sections and doors. They are installed in the place where they will be used with ready-made floors with platforms, slides or cable channels.

Design 3d View



Sheet metal kiosks are made of galvanized sheets and profiles with solid construction. Thermal insulation is provided with standard glass wool or stone wool insulation materials used on the walls and customer preference on the walls. As a design standard, the total wall and roof thickness is 40 mm, and it is possible to use different thicknesses according to the project requirements.

Production View



Sheet Metal Kiosks are used in the sectors of power transmission, distribution, renewable energy plants, oil & gas, industry, compact substations. It is also possible to use it mobile with designs on trailers, sleds or wagons.

Protection class is up to IP 54 is available.

Sheet Metal Kiosks are manufactured in accordance with the type tests obtained from internationally accredited test laboratories and IEC 62271-202 standard.

Technical Specifications

Base

The bases are NPU or NPI shaped according to the load on the ground and the NPU and NPI shapes are covered with hot dip galvanization.

Frame

If the customer does not want a different thickness in the frame part of the sheet metal kiosk, it is manufactured from 2mm galvanized sheet.

Doors

The doors can be opened 120° outwards and the rate of the impact protection is IK20.

Application Areas

- Iron casting workshops
- Oil pipelines
- Industry
- Shipyards
- Emergency and backup power facilities
- Mining operations

Compartments

MV Compartment

Metal Enclosed Modular Switchgears, Metal Clad cells and RMU type cells can be used in the MV compartment. MV compartment dimensions are determined according to the equipment dimensions in the compartment.

Transformer Compartment

Dry type transformer and oil type transformer can be used in the transformer compartment. Transformer compartment dimensions are specified according to transformers power.

Technical Specifications

LV Panel Compartment

In the low voltage (LV) room, MCC Distribution Board, AC Distribution Board, DC Distribution Board, HVAC Board, Fire Control Panel, UPS, Scada - RTU Panel and other LV panel can be installed.

Battery-Rectifier Room

The battery room has Ni-Cd batteries and DC cutters. If desired, the battery room can be designed according to Zone 2 Hazardous Area Classification. (optional)

Interior Lighting, Outdoor Lighting

All rooms in the Compact Substation are equipped with a lighting system that meets the standards. When preferred, Atex certified indoor and outdoor lighting equipment and sockets can be selected for Zone 2 Hazardous Area Classification. Emergency exit luminaires can be placed on the doorways. And these luminaires include an emergency lighting unit.

Grounding

Electrical appliances are connected to an isolated grounding busbar. Separate grounding system is used for doors, base, walls and roof to prevent electric shock in case of touch.

Flooring

The floor covering is made of fireproof rubber. It has A1 rating and 50kV insulation level. (This feature is optional)

Fire Detection and Fire Extinguishing

All rooms can be equipped with fire and smoke detectors. In case of emergencies in hazardous situations, the HVAC system is deactivated and warning lights and alarm are activated. (This feature is optional)

Air Conditioning System

In the Compact Substation, HVAC can be used to maintain constant internal temperature and humidity. Stabilization in all rooms is provided by air ducts. (optional)

Advantages of the System

- Since it is a lighter product compared to concrete kiosks, it provides convenience in transportation and installation.
- Since it is designed in accordance with the elements to be used inside, it can be manufactured in a wide range of sizes.
- Especially in substations with RMU, they are preferred because they provide great advantages in terms of size and weight.
- Large centers can be established thanks to their modular structures and prefabricated features.
- In disassembled shipments to abroad, it provides great savings in terms of transportation.
- High operational safety.
- Manufacturing solutions suitable for special projects.
- Easy transport and easy operating.

