



MACKINA - WESTFALIA



Product description

# TRANSFORMERS

## MOBILE TRANSFORMER CENTRE

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The Semi-Fixed Transformer Modules are compact equipment that incorporates, in a single enclosure, an input disconnecter, a transformer and a protected output. They are specially designed for use in both indoor (tunnels and unclassified underground work) and outdoor work.

It can have elements for its displacement on rails, they are adapted for its lodging in existing hollows.

In its standard manufacture: Primary 11 kV, 6 kV, 5 kV, 1 kV, 0,5 kV o 0,4 kV. Secondary 3 kV, 1 kV, 0,5 kV o 0,4 KV. With power up to 2.000 kVA.

It is composed of:

#### ENVELOPMENT

- With IP 567 degree of protection. Made of folded, degreased sheet metal, with anti-corrosion protection and dry painting. Rigidized by an internal frame made of laminated profile.
- It has interior mooring points for the transformer and exterior ones for its handling and anchoring to the road structure
- It is compartmentalized into three openings, connected by cable bushing windows, where the input switchgear, dry-type encapsulated transformer and output switchgear are housed.
- The access to the electrical switchgear is through screwed doors, which have large viewfinders to facilitate the inspection of the different elements.
- Access to the transformer is through screwed side covers. Cable entries can be made by means of fixed or pluggable metal cable glands with a high degree of protection.

#### ENTRANCE SWITCHGEAR

- In its standard manufacture (with HV/LV transformer), it incorporates a three-pole disconnecting switch with separate poles, mounted on a single steel plate structure; with external control and tripping coil. Depending on customer requirements, it can be fitted with line cubicles, fuses, circuit breakers, etc.

#### OUTPUT SWITCHGEAR

- With HV/LV transformer, it includes one or more outputs with moulded case circuit breakers, fixed version, with magneto-thermal relays and minimum coil for tripping the switch by means of an auxiliary control circuit. It incorporates insulation control and electrical cable protection (in the case of flexible cable) according to project requirements.

#### TRANSFORMER

- Dry-type transformer encapsulated in resin according to RU 5207 B, UNE 21.538, CEI 726. It has lifting eyebolts and is fixed to the structure of the enclosure by means of a number of tensors of sufficient size to guarantee complete immobility.
- It incorporates winding temperature control by means of Pt-100 probes, connected to an electronic control unit that acts on the output switches



**MAIN ADVANTAGES**

- No on-site assembly required. Immediate commissioning.
- No civil works required.
- Robust equipment, with a high degree of protection.
- No special transport permits required.
- Versatility. Can be used on any other site.
- Reduced dimensions, adjusted to the user's needs.
- Simple maintenance.
- Commercial spare parts. Prestigious brands.



INPUT CELL



OUTPUT CELL

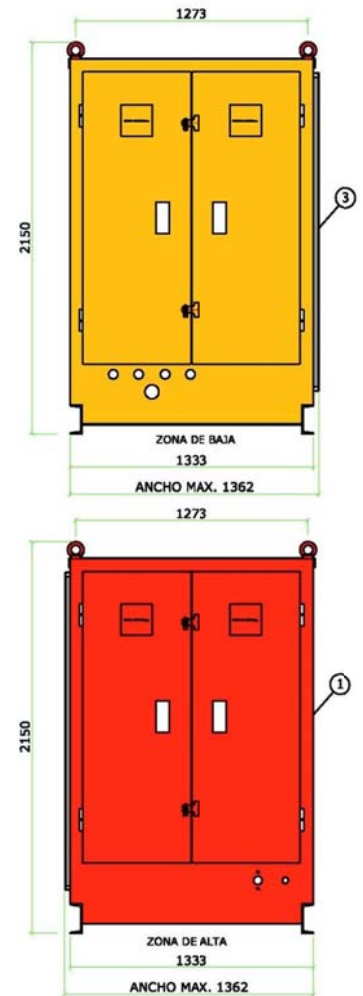
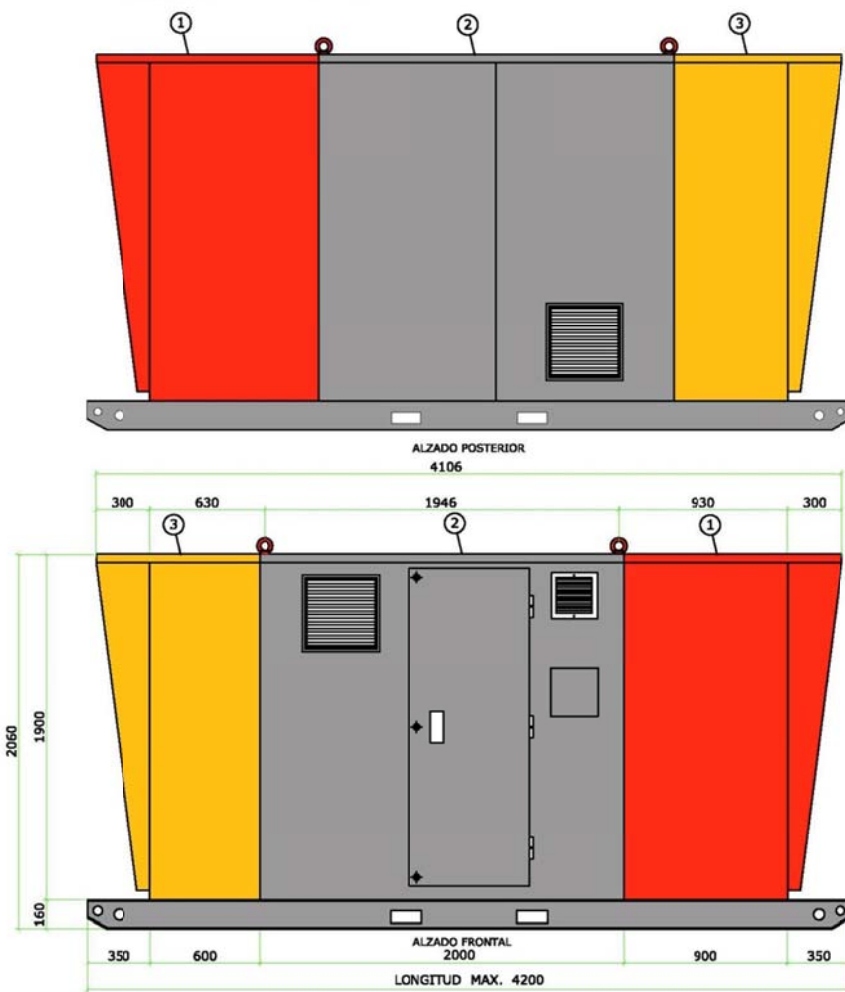


TRANSFORMER



COMPARTMENT H . T.







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