



A Phoenix Mecano Company



E-Mobility

Enclosure for use as a wallbox or charging station



ROSE Systemtechnik GmbH

For more than 50 years ROSE Systemtechnik has been developing and producing high quality industrial enclosures and system solutions for the areas of railway and traffic engineering, mechanical and automation technology, explosive areas, MSR technology and the food and beverage industry.

ROSE has positioned itself as a leading supplier in the market. Flat hierarchies, the know-how and the motivation of our 350 employees in Porta Westfalica, embedded in an international group with more than 6,300 employees, as well as the enjoyment of work are important cornerstones of the company's further development - today and tomorrow.

In addition to our wide range of products, high quality and permanent innovation, our quality and permanent innovation, the distinctive service level. You decide the state of delivery - the unprocessed enclosure, a partial assembly or a ready-assembled and tested customer-specific system solution.



Our product portfolio includes:

- Industrial enclosures made of aluminium, stainless steel and polyester for individual installations, electrical connection technology and electronic assemblies.
- Operating and display enclosures based on aluminium profile systems and stainless steel materials for HMI applications with industrial PCs, SPS control systems or visualisation units incl. support arm systems.
- Components for explosion protection with distribution enclosures and control stations, for worldwide use in potentially explosive atmospheres, the petrochemical and chemical industry in on- and offshore areas.



E-Mobility

prevent climate change

Only by careful handling of the environment and the use of resources will it be possible to counteract global environmental problems - such as climate change.



An important building block for reaching this goal: E-Mobility.

The use of electric cars can reduce emissions and pave the way to climate-friendly mobility. The precondition for this is a well set-up charging infrastructure. This is the only way to ensure the widespread use of electric vehicles.

Steadily growing charging infrastructure

An important factor for even greater acceptance of electromobility is the steady expansion of the charging infrastructure. When travelling long distances, it must be ensured that the next charging station is available in sufficient proximity. Through German government funding programs the federal government is constantly working on a nationwide provision of charging stations.

Solutions for charging stations

In public, but also in semi-public areas, charging stations offer a convenient way to charge your electric vehicle. Charging stations are usually equipped with 2 sockets. This allows 2 cars to be charged in parallel. Due to the high power, the battery of the electric car can be fully charged within a short period of time.

- Usually located outdoors
- Permanently exposed to strong environmental influences (wind, water and UV radiation)
- Thanks to many years of experience in enclosure design for a wide range of industries you can be sure that the charging pole will remain functional in the long term.

Individual requirements in terms of size or colour design are also no problem. We can help you design your very own charging pole.



Charging station Charging station

As a complete charging station solution, the aluminium profile housing on semi-public areas, such as company car parks.



e. The char-
charging



Charging station Pedestal

A solution with a stand is also possible for the aluminium profile housing. This free-standing variation of a Wallbox combines a representative look with a tasteful exterior.



Charging station Wallbox

Just like our standard enclosures the aluminium profile housing is also suitable for wall mounting. Due to the compact dimensions, this solution also finds its place in smaller garages or carports.



You can see the ROSE Combibox in use.



Wallbox Dual charger

Without taking up much space, the wallbox as a double charger offers the possibility to charge 2 vehicles at the same time.



Solutions for wallboxes

The topic of electric cars has gained more and more momentum in recent years. The cars have long since become part of everyday life in road traffic. One reason for the increasingly widespread use of e-cars is their convenient and uncomplicated charging. Electric cars can now be easily charged at home. A fast and efficient way to do this is to charge via a wallbox.

- Wallboxes can transmit power of up to 22kW to the car
- Complete charging of the battery possible within a few hours
- Depending on the application and environmental conditions, each material has its own advantages:
Aluminium, stainless steel or polyester

ROSE offers a wide variety of housing variations that can be used for a wallbox. All housings provide comprehensive protection for the installed components. The housings can be customized individually.

We will gladly take care of your individual customer requirements.

Wallbox Pedestal

If the wallbox cannot be installed on the wall, it is mounted on a stable base.



Wallbox Single charger

Small and compact, it can be used as a single-charger wall box. When space is at a premium, this is the optimal solution for conveniently charging your electric car.

AC/DC charging

Alternating current

AC stands for alternating current. The battery of an electric car can basically only accept direct current, but the public power grid only provides alternating current (AC). In order to transfer the current to the battery, a conversion from alternating to direct current must take place. This is done via the charge controller (on-board charger) in the vehicle.



Type-1-Plug

- Maximum charging power: 7.4kW
- Charging cable required: Mode 3
- Supported charging option: AC charging



Type-2-Plug

- Maximum charging power: 43kW
- Charging cable required: Mode 3
- Supported charging option: AC charging

Direct current

DC stands for direct current. Some electric cars offer the option of being charged at direct current (DC) charging stations. Here, the current goes directly into the battery, as the conversion of the current already takes place in the charging station. The power of the station is much higher than that of charging stations that charge with alternating current. This can significantly shorten the charging process.



Tesla Supercharger

- Maximum charging power: 120kW
- Charging cable required: provided by charging station
- Supported charging option: DC charging



Combo Plug

- Maximum charging power: 350kW
- Charging cable required: provided by charging station
- Supported charging option: AC and DC charging



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