

INDUSTRIAL CONTROL

APPLICATION EXAMPLE

Customized chassis solution for grinder control device

Industrial environments are typically characterized by harsh ambient conditions. This was why one of HEITEC's customers in the automation field needed a customized system platform to accommodate the control mechanism for the central processing unit of a grinder. Right at the outset, the customer had opted for a solution in the 19-inch range, since 19"-specific units had to be built in to the chassis.

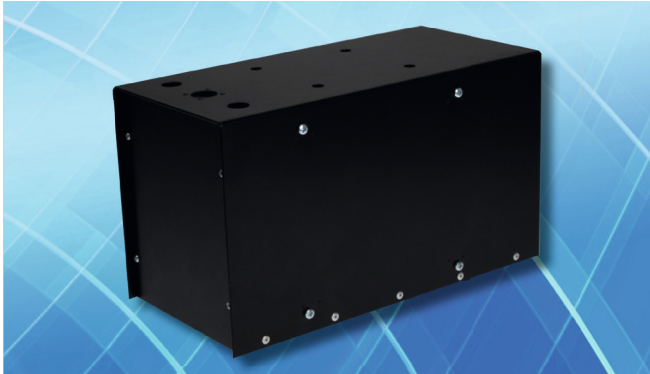
For its solution, HEITEC designed a low-cost sheet metal casing that was powder-coated to provide protection against harsh ambient conditions and humidity. In addition, to guarantee a particularly high level of protection (IP54) against dust and humidity, PU foam seals were used for the front and rear plates. These provide a secure seal even under very harsh ambient conditions. The optimized design meant that other adaptations to the chassis, such as openings in the cover plate for wiring ducts, were also achievable at a modest cost. As a result,

the chassis developed by HEITEC for its customer was ideally suited to the customer's requirements, combining maximum space availability with the most precise wire routing for the customer's application, and ensuring very high IP protection.

Inside the casing, the familiar HeiPac Vario rack components were used to meet the customer's expectations. The HeiPac Vario series is the most variable 19-inch rack family offered by HEITEC: its many size variations and accessories make it ideally suited for even the most complex applications.

To ensure very short delivery times, this project drew on systematic warehousing offered by HEITEC, which offers the customer great flexibility combined with guaranteed delivery capacity. When blanket orders are placed, this enables the logistics and customer call-off orders to be perfectly coordinated.

Innovative Chassis Concept



View of the closed, customized chassis with a range of openings in the cover plate for wire routing



Front view of the open chassis with six card brackets fitted at top and at bottom to accommodate six 3U sub-assemblies

Technical Summary

- › Customer-specific system platform
- › Customized rack with internal structure consisting of standard HeiPac Vario components
- › L x W x H: 296 mm x 30HP x 4U
- › LP card brackets = 160 x 2.00 mm
- › Protection class IP54

Customer Benefits

- › Customized rack for a customer-specific system
- › Powder coating and PU foam seals on front and back plates provide very high protection against harsh ambient conditions
- › Fully prefabricated system platform for PCBs
- › Cost-optimized design
- › Short delivery times despite customer-specific manufacture

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