





Reference name:	Single-purpose machine – welding station
Supplier:	ELVAC a.s.
Customer:	Schneider Electric, a. s.
Market segment:	Electrical industry
Year of implementation:	2011

Introductory text:

The order for Schneider Electric concerned the production of single-purpose equipment for the assembly of welding workstations.

The basic idea was a simple manual workstation, where operators would operate. These operators would load pre-prepared components into the loading fixture and then weld these components together, thus creating the desired final product.

Application description:

Welding stations are implemented as a line. This is a complex welding equipment for circuit breaker assembly assemblies. The machines are operated manually by operators, are connected by sliding conveyors and are interconnected so that the final product is completed at the last station. The machine is assembled from an aluminum frame, a foundation fixture, a welding unit, an inverter, a switchboard, a control panel, stainless steel part outlets and support shelves. Communication with the operator is via a control panel, which houses the welding machine control panel. For safety reasons, the welding cycle of the station is controlled by a two-button switch, and in some stations the welding machine is controlled by a foot pedal. This entire application is ergonomically designed to meet the demanding requirements for reducing the operator's production time for a given part of the production assembly.

Products and technologies used:

The machine frame is assembled from parts of the ITEM kit from ALVÁRIS and sheet metal shelves made of stainless steel sheets. The machine is built on electrical components from Schneider Electric a.s. The control panel of the welder includes an MPS 300 or HRC-600 and a Magelis XBTR control panel. The main safety element is the control of the welding cycle using two buttons from TURCK.

The solution of ELVAC a.s. the customer received the following benefits:

The benefit for the customer is the shortening of the work cycle at manual workplaces. This benefit was created by carefully thought out ergonomics and, at the same time, an emphasis on safety at individual workplaces.



Photo:







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