

Individual machine control panel for Laservorm GmbH



TASK DEFINITION

Functional eye-catcher / Laservorm GmbH, special machinery manufacturer founded in 1994 with its registered office in Altmittweida produces laser machine tools for the most different requirement profiles where laser welding or laser-supported surface processing are used. The company develops customized solutions for clients of the automotive industry, utility vehicle manufacturing, electronics, medical engineering and many other industries. Through the philosophy change from special machinery construction to manufacturing of mass-produced machines, the issue standardization became the focus of attention. To give the machines an individual character the Laservorm company planned the implementation of its own machine control panel. On the one hand, it should have stood out with slim appearance and at the same time be suitable for different areas application scenarios. Other criteria were usability of different controls and use of standard components to reach positive effects with regard to the stocking of spare parts.

of a splash water protection and dust protection according to IP65 standard.

Based on the client's design concept, GETT provided the fine adjustment of the existing construction to mount the required components.



PROJECT DESCRIPTION

On the basis of customers' specifications, such as special switching elements to be used and a first casing construction, GETT was assigned with the integration of the individual components. By means of one silicone keypad adapted to the client's requirements, a solution could be implemented which is also suitable for the entry of large data amounts and which also offers the added value



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Client
Industry
Product
Application
Keypad
Additional keys
Visualization

Laservorm GmbH
machine and plant building
machine control panel
entry of production data, laser machines control
silicone keypad with integ. touchpad
silicone individual keys, machine keys,
emergency stop key
resistive touch monitor with additional monitor

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PROJECT DATA

The project volume to be carried out by GETT included the design and integration of:

Casing

- Adaptation of the 3D-layout provided by the client
- Three-part architecture
- Design in anodized aluminium
- Splash water protection and dust protection according to IP65

Control unit

Keypad:

- Client-specific design of an InduKey silicone keypad
- Key technology: carbon pill on circuit board for flat construction and smooth-running writing experience
- Silver-printed keys for low sensitivity to dirt
- Decorated foil layout with colour gradient from light to dark
- Touchpad as an alternative to the mouse
- Splash water protection and dust protection according to IP65

Additional switching elements:

- Vertically and horizontally arranged, flanking silicone individual keys for optional non-touch-control

Visualization

Main monitor unit:

- Standard LCD touch monitor in resistive design for hand glove, finger or pencil operation
- Frameless design ("OpenFrame")
- Representation format 16:9
- Screen diagonal 19"

Additional monitor:

- Standard LCD monitor
- Frameless design ("OpenFrame")
- Representation format 16:9
- Screen diagonal 10.4

Connections

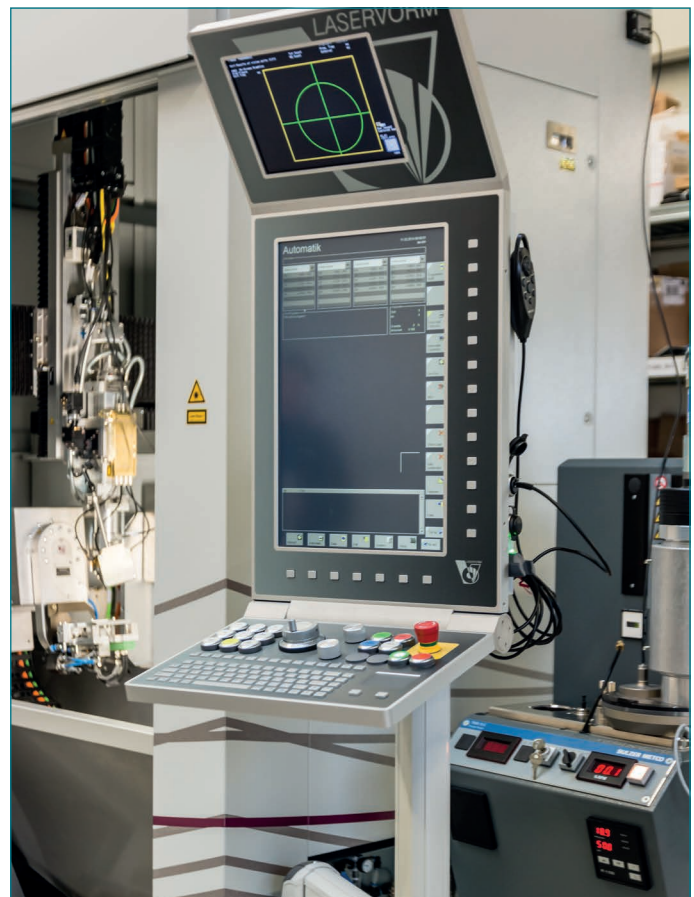
The central data processing unit is in the machine control.

- Keypad & Touchpad: general USB-connecting cable
- Touchscreen: USB-connecting cable
- Individual keys: direct wiring of the main monitor unit and machine keys



SPECIFIC CHALLENGES

- Universal application possibilities
- Redundant operating concepts
- Office keypad operation feeling
- Flat and compact design
- Splash water protection and dust entry protection
- Low costs of maintenance due to standardized operating elements



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