



Case Study

EAO supplies HMI components.
For leading Italian machine tools builder.

The company places great importance on satisfying the end-user's needs and differentiating its products by exceptional design. *That's one of the reasons they chose EAO's Series 56.*

During the redesign, comfort and usability were identified as important characteristics of the new control panels. EAO was the obvious choice.

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Company Profile

Customer

Italian machine tools manufacturer

Market

CNC

Application

6 axis high-speed machining centre with linear motors

EAO Series

Series 56

Series 61

Series 84



Series 56 'Secret-til-lit' indicator and pushbutton with bright yellow bezel on the safety doors.



EAO's Series 84 emergency-stop button.

Business Challenge

The CNC market is characterised by innovations in technology, production modularity and high productivity. Manufacturers compete not only on precision, reliability and yield but also on the overall usability of equipment.

This customer, one of Italy's leading machine tool manufacturers and a member of Fair Friend Group (FFG), builds vertical machining centres for companies involved in automotive, aeronautics, energy and medical fields.

The company places great importance on satisfying the end-user's needs and differentiating its products in the market by exceptional design. This is especially apparent in the new Tandem Series, which aims to set the standard for ergonomics, safety, comfort, visibility, ease of use and maintenance.

Solution

The Tandem 6A is a large, six-axis, highly flexible milling machine. During a redesign phase, the customer reviewed the equipment's various control panels and identified areas where they could improve the overall comfort and usability for operators while updating the equipment's appearance, in particular:

- Update the main operator control panel with discreet pushbuttons for bringing attention to primary controls
- Accentuate the door opening/closing function with a high-visibility control
- Emergency-stop on the rear side

This new indicator box additionally includes "leakage current compensation" as a critical requirement for efficient and proper LED illumination within the system design.

Offering one of the world's largest range of pushbuttons and HMI components, EAO was the obvious choice to supply these controls. Following a technical brief, we recommended two products for the safety doors from the Series 56 range – an LED illuminable door-opening button and a secret-til-lit indicator. Series 56 is typically found on passenger doors on trains, but the large button, bright LED ring illumination, bright yellow bezel and high resistance to impact, moisture and dirt makes it ideal for this application.

Results

For the main operator terminal, Sigma uses four Series 61 flush-mounting pushbuttons with ring illumination to give the panel an up-to-date look. A Series 84 compact Emergency-stop was specified for the rear panel.

It's important to work with an HMI expert
who can address all the human factors,
technical and commercial considerations.

*EAO is here to make the interaction innovative,
intuitive and reliable.*

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EAO's Series 56 (yellow, left side) is used in the redesigned control panels.

It's important to work with an HMI expert who can address all the human factors, technical and commercial considerations of a complex HMI development project.

EAO is a global partner and manufacturer of HMI Systems and HMI Components to a range of markets including machinery and automation, public transport, automotive design, special purpose and heavy-duty vehicles, as well as many others that involve an interaction between humans and machines. EAO is here to make this interaction innovative, intuitive and reliable.

EAO's components and systems undergo rigorous testing to assure reliability, repeatability, and long service life. EAO is ISO 9001, ISO 14001, IRIS, and ISO/TS 16949 certified for automotive and other industry requirements.