Key features

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- Motion control system for interpolated Cartesian axis systems
- Linear and circular interpolations in the 3D work space of the handling system
- 3D point-to-point and continuous path handling sequence programming via PC software.
- Programmable CU4 Central Processing Unit for managing up to 65,500 working points, organisable into 255 programs
- SD05 driver for bipolar stepper motors with on-board encoder, max current 5A
- SD10 driver for bipolar stepper motors with on-board encoder, max current 10A
- Intuitive graphic interface for quickly carrying out complex operations
- Speed profiles and trajectories can be set in combination with delays, expected input signal and output activations
- CAD .dxf format file import and path refining via graphic editor
- Connectivity via CANopen standard CiA DSP402, RS485 and RS232
- 4 standard digital I/Os on board the CU4, expandable to 16 through optional IO1616 card
- Total software and firmware updatability via web

Proudly made in Italy

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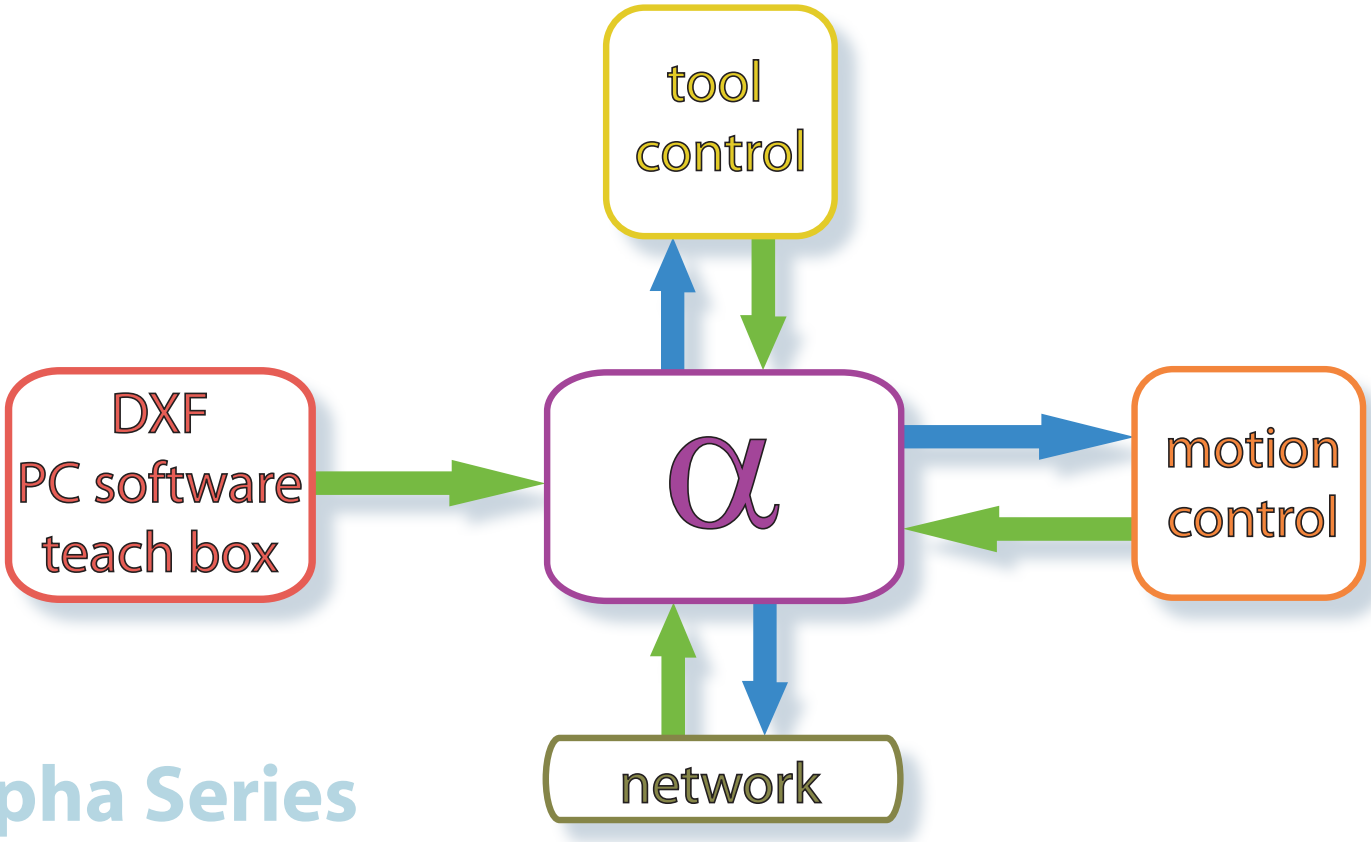
MOTION CONTROL SYSTEM



The Alpha Series

The Alpha Series

AEB Robotics goal is to supply machines for industrial robotized assembly characterised by flexibility, an excellent quality to price ratio and most of all, a simple, user-friendly interface. These characteristics allow even small businesses to take advantage of automation while at the same time raising the level of skills of operators, who thus become integral to improving the production process.

The main interpretation of AEB Robotics philosophy is found in its flexibility, which is made possible by the ease with which the handling platform - appropriately fitted with the necessary equipment - can be arranged in order to supply a solution precisely with an excellent quality to price ratio for a vast variety of production problems.

The programming software, entirely developed by AEB Robotics, represents an important evolution compared to similar systems on the market. The graphic interface in fact is specially designed to make the work profile creation stage simpler.

The work profiles can be created on a PC starting directly from CAD .dxf format drawings. Adjustments can be made using an extremely intuitive 3D graphic editor or, after the program has been transferred onto the workstation, directly on board the machine via PC or dedicated teach box.

The final handling sequences generated in this way can be saved on the central unit of the workstation, up to 255 combinations at the most, and be called up by the operator without further interventions.

In the case it is necessary to use more than 255 programs, it is sufficient to transfer the new work profiles from the PC to the workstation. All data on the workstation will be automatically and safely filed on the PC for subsequent necessities.

The work profiles contain not only information about positioning and speed, but also the status of the inputs and outputs to which the tools are connected. This is why it is possible to use the same software, for example to modify and program the dispensing parameters of the profile point by point.

In this way the production processes can move toward the goal of maximum repeatability with extreme simplicity.