

S 829



Software Specifications

- Numerical programming with automatic calculation of the Y axes according to the tools, the material and the programmed angle.
- Graphical programming of the 2D part.
- Automatic calculation of the position of the R or Z axes.
- Automatic calculation of bending force and force limitation as a function of the maximum tool load.
- Automatic Crowning Calculation.
- 2D graphical programming of tools.
- Automatic management of crushed folds.
- Automatic calculation of the development with the possibility of correcting the stretching coefficient of the material.
- Automatic calendaring calculation.
- Programmable piece counter.
- Millimeter/inch selection.
- Windows® like user interface.
- Network connection.
- Possibility to program tools and programs off-line on a standard PC, using special simulation software.
- Remote assistance through special software.

Special Features

- Two-dimensional graphic display of the machine structure, workpiece and tools.
- Automatic calculation of the folding sequence.
- Angle correction database, possibility to store corrections according to angle, material and tools, the corrections will then be automatically loaded into the new programs.
- Esautomotion or Wila LED bar interface.
- Mitutoyo protractor interface with cable for lean angle correction.

Functional Specifications

- Selectable and programmable axes and auxiliary functions.
- Drivers for hydraulic axes with proportional valves or servo valves; for servo drivers, and a.c. motors with or without inverter.
- Drivers for the most common field bus (CANopen, EtherCat...).
- Following arms, thickness detector, in-process angle measurement units, robotic interfacing, controlling for tandem press-brakes.
- Safety PLC communication (PILZ, LAZER SAFE).
- IEC 61131-3 PLC programming language with function utilities, either written in IL or "C" language, are available for manufacturers.
- Customizable alarm messages.

General Specifications

- 24Vdc 50Watt max power supply.
- CPU NXP i.MX 8M Plus Quad Lite 1.6GHz.
- 1GB LPDDR4 Ram.
- eMMC Flash 8GB..
- Aluminium frame.
- PCAP 2.8 mm cover glass (10 touch points) touch screen.

- Touch screen and display coupled with optical bonding process.
- 10.1" LCD TFT widescreen display, 1024x600 resolution.
- Ergonomic steel cabinet, equipped with dedicated space for buttons and machine selectors.
- USB port available on the housing
- Linux real time operating system.
- Temperature working range: +5 - +50°C.

Communications Ports

- 1 Ethernet port.
- 2 USB port type A.
- 1 EtherCat port.

User Memory

- Solid state disk (flash disk) for more than 7.000 part programs and 7000 tools.

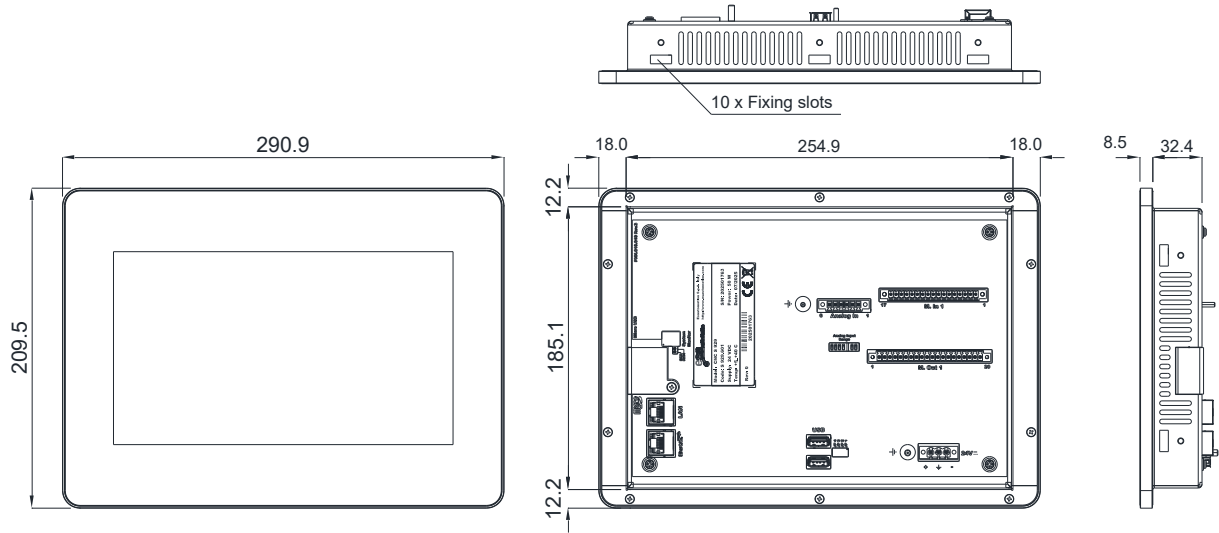
Axes

- Maximum number of axes, 4 + hydraulic crowning or wila.

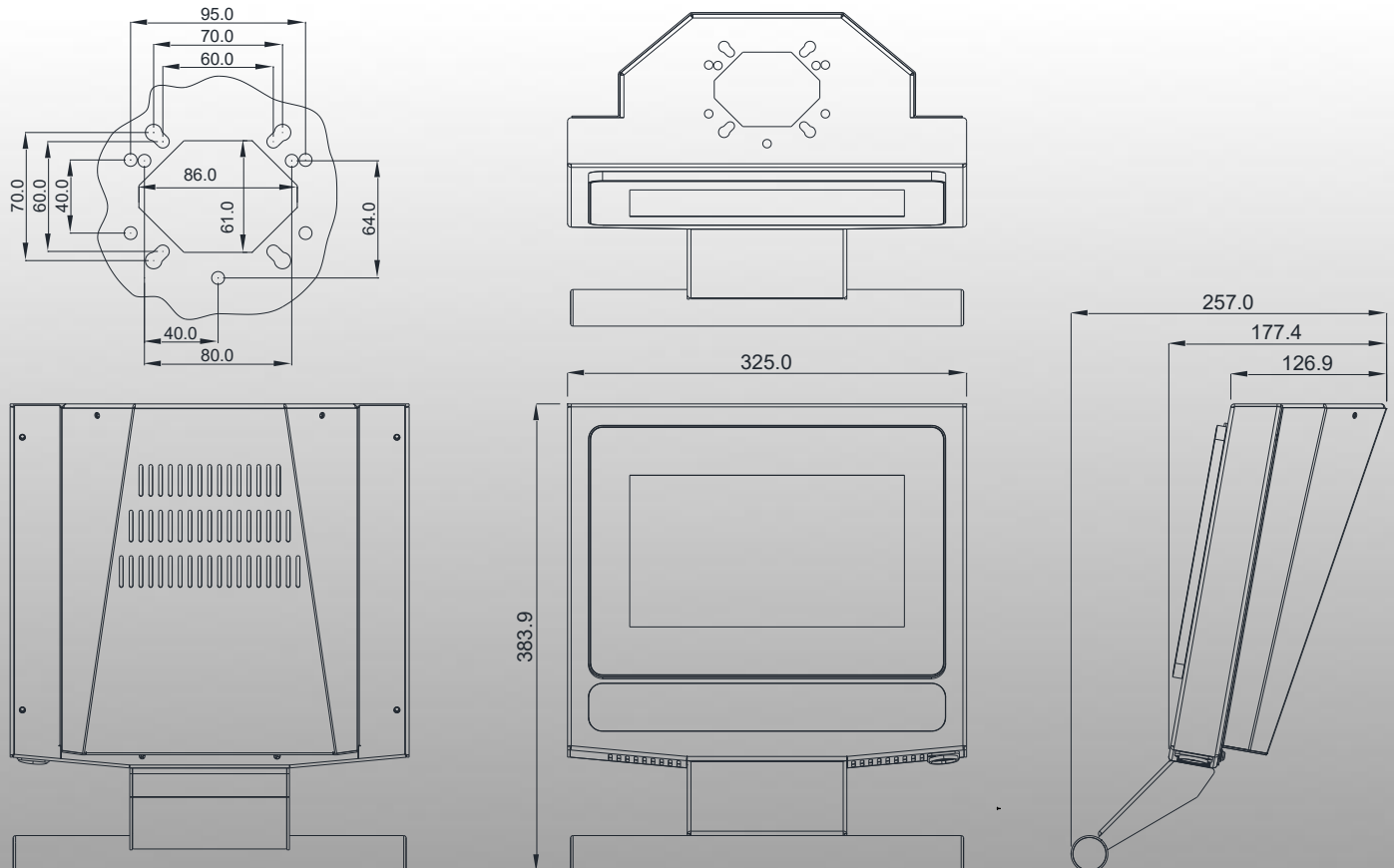
Input/Output

- Standard 16 inputs and 16 outputs.
- 24Vdc PNP opto-insulated inputs.
- 24Vdc@1.2A High side opto-insulated static outputs, protected against short circuit.
- 4 analog inputs 0 to +12V (range selectable via DIP switch) 12bit resolution

→ Panel version



→ Housing version





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