

## Software Specifications

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- 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.
- 3D Profile Viewer (Extrusion Viewer).
- 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 calculation of the development with the possibility of correcting the stretching coefficient of the material.
- Automatic management of crushed folds.
- 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

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- 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

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- 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, 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

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- Panel monitor + Rack CNC configuration.
- 24Vdc 50Watt max power supply.
- CPU VIA Eden® X1 1.06GHz
- 1GB Dynamic Ram.
- 512MBytes solid state disk.
- Aluminium frame.
- PCAP 3 mm cover glass (10 touch points) touch screen.
- Touch screen and display coupled with optical bonding process.
- 15.6” LCD TFT widescreen display, 1920x1080 resolution.
- Ergonomic steel housing, equipped with push-button emergency.
- USB port available on the housing.
- Windows® compatible real time ETS operating system.
- Temperature working range: +5 - +50°C.
- Max distance between panel monitor and rack CNC: 5m.

## Communications Ports

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- 2 serial port RS232.
- 1 Ethernet port.
- 1 Can Open port, optional 2nd Can Open port.
- 2 USB 2.0 port.
- 1 EtherCat port.

## User Memory

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

## Axes

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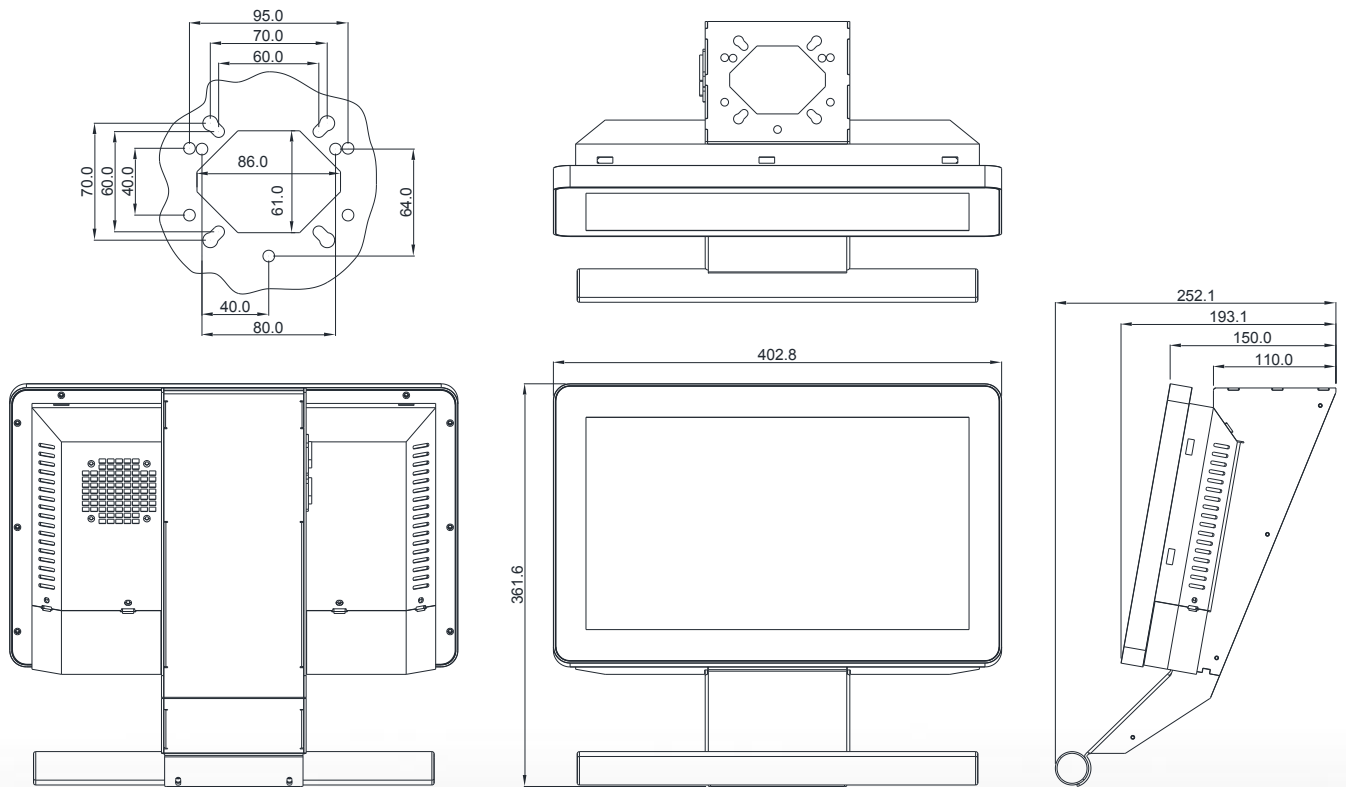
- Maximum number of axes, 6 + hydraulic crowning or wila.
- Single ended incremental encoders, or line-drivers encoders, powered at 5Vdc.
- Maximum encoder input frequency: 500KHz.
- 4 Analog inputs suitable for mechanical crowning systems management or sensors.

## Input/Output

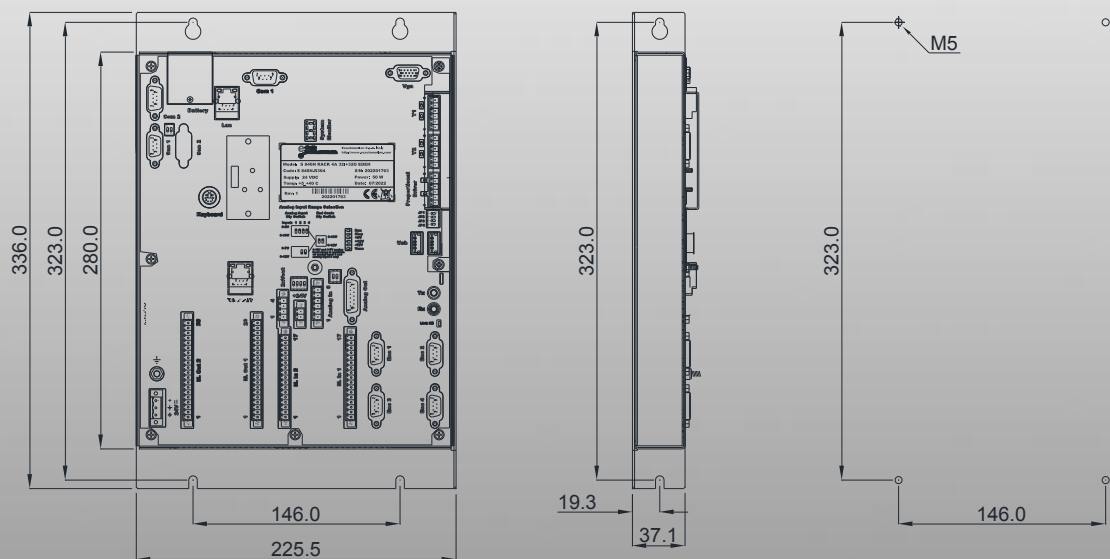
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- Standard 32 inputs and 32 outputs.
- 24Vdc PNP opto-insulated inputs.
- 24Vdc@1.2A opto-insulated static outputs protected against short circuit.
- Remote I/O system, connected through optic fiber link.
- The I/O number could be expanded up to 2048, 24Vdc PNP opto-insulated inputs, 24Vdc@1.2A opto-insulated static outputs protected against short circuit.
- The axes could be expanded up to 6 analog axes.
- Drive board for pressure and crowning valves, max current 3A.
- Drive board for Y1 and Y2 proportional valves with or without feedback, max current 2.8A.

## → Housing monitor



## → Rack CNC





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