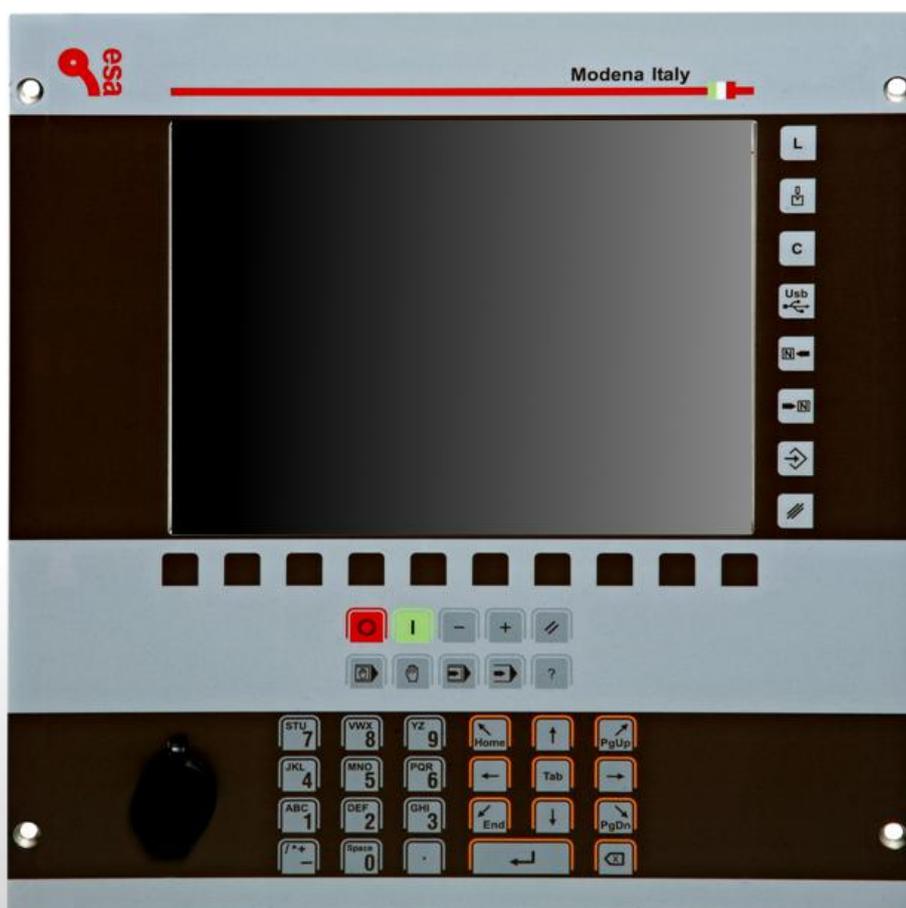


esa



CNC S 540N

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S 540, with small dimensions and great performance. It's the result of Esautomation mission: give the market a controller with plenty of performance at the right price. Graphic color display to support a bi-dimensional graphics, network capabilities, and a modem connection, make this controller a further example of Esautomation's innovative technology.

Typical applications

- Conventional press-brakes (Mechanical and Hydraulic), Synchro Hydraulic press-brakes, Servocontrolled hydraulic single cylinder press-brakes, Electrically driven press-brakes
- Hydro-mechanical press-brakes American style

Software specifications

- Interactive 2D graphic editor for work-pieces and tools data entry
- 2D graphic display of machine frame, work-piece and tools
- Manual 2D graphic identification of the best bending sequence
- Programming of the axes positions in tabular mode with automatic syntactical checks, automatic calculation of the R, Z and A positions and of the bending and crowning tonnage Windows like user interface
- Complete off-line programming on a standard PC IEC 61131-3 PLC programming language with function utilities either written in IL or "C" language, are available for manufacturers
- Customizable alarm messages

Special features

- Selectable and programmable axes and auxiliary functions
- Drivers for hydraulic axes with proportional valves Closed Loop or Open Loop or servo valves, servo drivers (a.c./d.c.), and a.c. Motors with or without inverter; drivers for the most common field buses (Sercos, CAN open, Mechatrolink...)
- Following arms, thickness detector, in-process angle measurement units, robotic interfacing, controlling for tandem press-brakes
- Safety PLC communication (PILZ, LAZER SAFE)

General specifications

- 24Vdc 100W max power supply
- 10" TFT SVGA colour display with antiglare screen
- Ergonomic alluminum housing, with a panel suitable for machine operational selector-switches and push-buttons
- Dedicated scratchproof, oil-proof IP65 keyboard with 50 keys
- Silicon hard disk (flash disk)
- Preset for standard PC keyboard

Technology

- CPU AMD Geode ETX-L800 500 MHZ, 128Mb of RAM
- FPGA integrated logics, surface mounting, fiber optic

Communication ports

- 2 serial ports RS-232
- 2 USB port for memory stick
- 1 Ethernet port
- 2 Can Open port
- Fiber optic interface
- Local area network

User memory

- Silicon hard disk (flash disk) for more than 7.000 part programs

Options

- Modem for telecommunication assistance 2D automatic identification of the best bending sequence
- Proportional vales driver (Y1-Y2) with or without cursor position feedback
- Connection to external electronic goniometer (PS2)
- Angle corrections and material stretching database
- Crowning corrections in degrees

Axes

- Standard 4+wila, on request up to 6+wila
- 5V incremental encoder inputs (line-driver or single ended)
- Maximum encoder input frequency 500KHz
- 4 Analog inputs suitable for mechanical crowning systems management or sensors

Inputs/Outputs

- Standard 32 inputs and 32 outputs
- 24Vdc PNP opto-insulated inputs, 24Vdc 0,7A optoinsulated static outputs protected against short circuit
- Special I/O board for pressure and crowning valves (up to 3A)



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