

esa



CNC S 550N

CNC S 550 N

S 550, the basic control, having top class performances. Modern style moulded plastic housing, having elegance and praticity, permits the installation of push-buttons and selector switches on the bottom panel for the machine operation. Interactive 2D graphic editor for part programs and tools, modem connection for teleassistance, are some features available on the controller.

Typical applications

- Conventional press-brakes (Mechanical and Hydraulic), Synchro Hydraulic press-brakes, Servo controlled hydraulic single cylinder press-brakes, Electrically driven press-brakes, Tandem pressbrakes
- 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
- 2D automatic 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, CANopen, 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
- 15" TFT XGA 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 28 keys
- Silicon hard disk (flash disk)

- Preset for standard PC keyboard

Technology

- CPU AMD Geode ETX-LX800 500Mhz, 128Mb of RAM.
- PGA integrated logics, surface mounting, fiber optic

Communication ports

- 2 serial ports RS-232, 1 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
- 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 12+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
- 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 0,7 A opto-insulated static outputs protected against short circuit
- 1 Special I/O board for pressure and crowning valves (up to 3A)

** adopted characteristics related to the axes control rack*



Esautomotion Srl Sede legale: Via Vigoni, 5 - 20122 Milano - Italy

Sede operativa: Via G. Di Vittorio, 24/b - 41011 Campogalliano (MO) - Italy

Tel: +39 059 851414 - Fax +39 059 851313 - Email: info@esautomotion.com - <http://www.esautomotion.com>