

esa



CNC S 550N PC

CNC 5550N PC

Typical applications

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

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® XP Professional Embedded operating system
- 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
- 3D graphic images managing (generated by external CAD/CAM)

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 aluminum housing, with a panel suitable for machine operational selector-switches and push-buttons
- Dedicated scratchproof, oil-proof IP65 keyboard with 28 keys
- 2.5" Hard disk drive 20GBytes or more
- Preset for standard PC keyboard and mouse (PS2 standard connectors)

Technology

- CPU PC: Intel Atom N270 1,6Ghz with 1Gb of RAM
- CPU CNC: AMD Geode ETX-LX800 500 Mhz, with 128Mb of Ram

- FPGA integrated logics, surface mounting, Fiber optic

Communication ports

- 2 serial ports RS-232, 2 USB ports, 2 Ethernet port on the PC
- 2 serial ports RS-232, 1 Ethernet port, 2 Can Open Port on CNC
- Fiber optic interface
- Local area network

Communication ports

- 1 serial ports RS-232, 3 USB ports, 2 Ethernet port on the PC
- 2 serial ports RS-232, 2 USB, 1 Ethernet port, 1 Can Open Port on CNC
- Fiber optic interface
- Local area network

User memory

- Hard disk for more than 2.000.000 part programs, USB stick for more than 50.000 programs

Options

- Modem for telecommunication assistance
- Remote handheld terminal for editing and correctional operations
- Connection to external electronic goniometer and calibre (PS2)
- Management of several sensors inputs for measuring sizes like material thickness and width or resistance; measuring the machine frame deformation and so on
- Angle corrections and material stretching database
- Additional fold-back QWERTY keyboard and mouse
- Active crowning
- Crowning corrections in degrees
- Lazersafe angle measurement system integrated on system
- DataM angle measurement system integrated on system
- Spring back measuring system

Axes*

- Standard 4+wila, on request up to 16+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 0,7A opto-insulated static outputs protected against short circuit
- Special I/O board for pressure and crowning valves (up to 3A)

* adopted characteristics related to the axes control rack



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