

## → S 820



Compact and ergonomic CNC for guillotines shearing machines, equipped with a 7" touch screen which makes all operations on a shearing machine simple and intuitive. Can manage up 3 axes and 16+16 I/O with integrated PLC. Storage of thousand of part programs. All kind of shearing technology supported

### General specifications

- 24Vdc +/- 20% - 30W power supply
- 7" Color LCD TFT color display, WVGA – 800 x 480
- PCAP 1.8mm cover glass (5 touch points) - Air bonding process - Aluminium frame
- USB port

### Technology

- 1 STM32MP1 System-on-Module (SoM)
- CPU: Dual Cortex-A7 cores 650 MHz, Cortex-M4 209 MHz
- Graphic controller: Integrated 3D GPU at 533MHz

### Communication ports

- 1 Serial ports RS-232,
- 1 USB 2.0 port for memory stick
- 1 Ethernet port 10/100Mbit
- 1 CANopen port DS3101

### User memory

- 512Mbytes Nand Flash
- 4GBytes Micro SD card - Saving retentive data

### Axes

- Standard 3 axes
- 3 x 14Bit +/-10V analog outputs
- 3 x Incremental encoder inputs, 5V differential line-driver or 5V/12V single ended. Maximum encoder input frequency 500KHz.

### Inputs/Outputs

- 16 digital inputs - 24Vdc PNP opto isolated
- 16 digital outputs - 24Vdc 1,2A opto-isolated static outputs protected against short circuit
- 3 Analog inputs (0-10 V 12 bits resolution)
- 2 Analog outputs (0-10V 12 bits resolution)

### Main functions

- All programs, tools description, parameters can be stored on the internal memory or on USB memory stick. These files can be exchanged with other CNC and PC through USB memory stick.
- Complete graphic off-line programming on a standard PC, through a simulation program.
- IEC 61131-3 PLC programming language with function utilities either written in IL or "C" language are available for manufacturers.
- Customizable alarm messages.
- Very Easy Programming
- 2D graphic tools
- PC software offline

### Machine Configurations

- All kinds of guillotine shearing machines, equipped by 1 to 3 axes (back gauge, blade gap, angle).
- Different configurations on demand

### Special Features.

- Selectable and programmable axes and auxiliary functions.
- Drivers for hydraulic axes with proportional valves or servo valves or open loop valves, servo drivers (a.c./d.c.), and a.c. motors with or without inverter.
- Modem for telecommunication assistance.
- USB memory stick available on all products range.
- Fully hardware and software compatibility among all products range.
- CNC hardware configuration (motors type & quantity, valves type & quantity, I/O type & quantity) can be edited from the CNC itself.

## Panel version

