

S 660 W



The most powerful CNC control with Panel PC. Graphical 3D programming at the highest level with an extra large 19" multitouch control panel for optimal ease of use to get the most out of your machine.

General software functions

- Graphical 2D programming of workpiece and tool
- Presentation of the machine structure, the workpiece and the tools
- Automatic calculation of the bending force limitation based on the max. Load capacity of the tools
- Automatic calculation and optimization of the bending order
- Management of 3D CAD / CAM images
- Automatic calculation of the crowning
- Automatic calculation of stock size
- Automatic management of folded sheets
- Automatic calculation of the bending radius curvature for large bending radii
- Multi-tandem management for the combination of tandem or multi-tandem presses (max 4)
- Programmable workpiece counter
- Switch between mm / inch
- Windows® user interface
- Network connection / remote maintenance

Optional software features

- Dynamic error compensation of the machine during the bending process by the CNC / drives (dynamic crowning)
- Management of bending angle measurement and relative dynamic compensation during bending
- Automatic determination of sheet thickness
- Angle correction database to apply corrections to the angle, material or tool. Corrections are automatically loaded into the new programs
- Interface for LED strips from Wila and Esautomotion
- Mitutoyo goniometer interface for correcting the bending angle (cable included)

General features

- Programmable axes and auxiliary functions
- Control of hydraulic axes with proportional or servo valves, DC and AC motors, brushless



- motors and converters, both traditional analog and fieldbus (Sercos, CAN, Mechatrolink, etc.)
- Auxiliary axis management, connection to a robot with synchronization of robot / press programs, coupled presses (tandem)
- Integration of a safety PLC (Pilz, Fiessler, Lazer Safe, MCS)
- Modifiable PLC (IEC 61131-3) with function blocks both in STL and "C"
- Customizable alarm management

Hardware features CNC

- 24 VDC power supply, 50 W max.
- VIA Eden® X1 1.06 GHz, 1 GB RAM
- 128 MB SSD (Flash Disk)
- 2x USB 2.0
- 1x Ethernet 10/100 MBit (2x optional)
- 2x RS-232
- 1x CANopen (2x optional)

Hardware features Panel PC

- 24 VDC power supply, 70 W max.
- AMD GX-424CC 2.4 GHz, 4 GB RAM
- 64 GB SSD (MSATA)
- 19 " TFT LCD display with 1280x1024 SXGA resolution, glare protection
- Capacitive PCAP multitouch control panel
- Ergonomic housing
- 2x USB 2.0 external, 2x USB 2.0 internal
- 2x Ethernet 10/100/1000 Mbps
- 2x RS-232

Program memory and tool memory

- SSD with space for at least 1,000,000 programs and tools

Axes

- 4 CNC axes (6 optional)

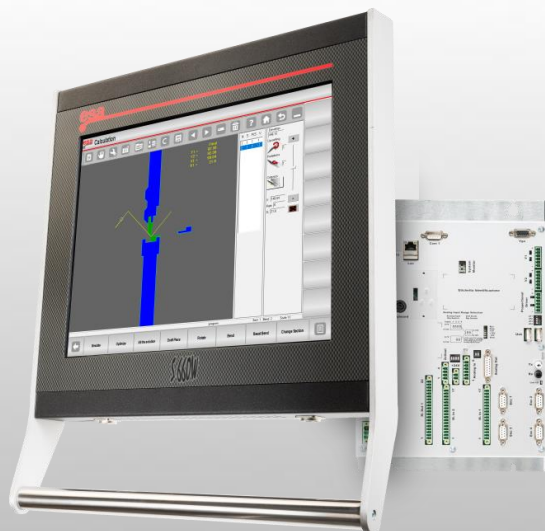
- Control of the hydraulic crowning or Wila inputs with single-ended incremental encoder (5 V TTL) or line driver (RS 422)
- Max. Encoder input frequency 500 kHz

Inputs and outputs

- 32 opto-isolated digital inputs PNP 24 VDC
- 32 opto-isolated digital outputs 24 VDC, 0.7 A, short-circuit proof
- 4 analog inputs 12Bit (0-5V, 0-10V)
- 2 analog outputs 12Bit (0-10V)
- Direct control for pressure valve and crowning valve (max 3 A)
- Direct control of proportional valves for Y1 and Y2 with and without feedback (maximum 2.8 A)
- I / O extension via ESAring interface with up to 512 digital inputs, 512 digital outputs, 8 analog inputs, 8 analog outputs (optional)

Offline Software

- Free offline software for Windows®
- Analogous to the programming software of the CNC control on the machine
- Complete bending simulation



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