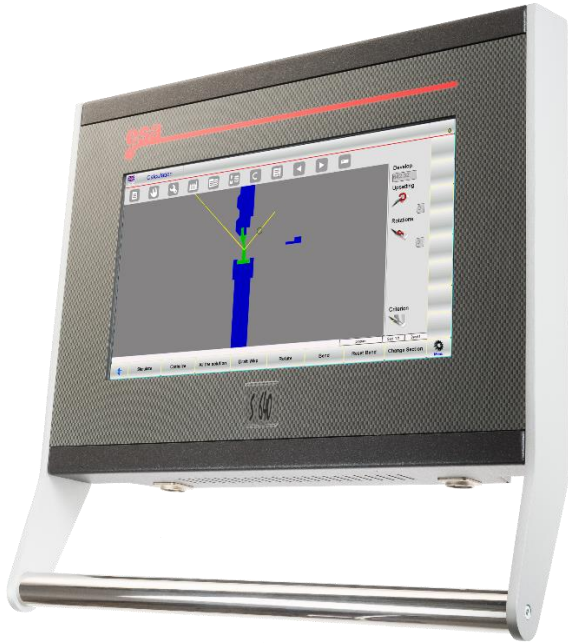



S 640


The most powerful CNC controller in its class.
Graphical programming at the highest level with a large 15 " touch screen for maximum ease of use to get the most out of your machine.

General software functions

- Numerical and graphical 2D programming with automatic calculation of the Y-axis based on tool, material and programmed angle as well as automatic calculation of the position of the X, R or Z axis
- Graphical 2D tool programming
- Automatic calculation of the bending force limitation based on the max. Load capacity of the tools
- 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
- Programmable workpiece counter
- Switch between mm / inch
- Windows®-like user interface
- Network connection / remote maintenance

Optional software features

- Graphical 2D workpiece programming
- 2D representation of the machine structure, the workpiece and the tools
- Automatic calculation of bending order
- Angle correction database with the ability to apply the corrections to the angle, material or tool. Corrections are automatically loaded into the new programs
- 3D Profile View (Extrusion Viewer)
- Interface for LED strips from Wila and Esautomation
- 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

- 24 VDC power supply, 50 W max.
- CPU VIA Eden® X1 1.06 GHz, 1 GB RAM
- 15.6 " TFT LCD display with 1366x768 WSVGA resolution, glare protection
- Resistive single touch
- 128 MB SSD (Flash Disk)
- Ergonomic housing with external USB port
- Integrated machine operator panel for hard keys (optional)

Hardware interfaces

- 2x RS-232
- 1x Ethernet 10/100 MBit network connection
- 1x CANopen (2x CANopen optional)
- 2x USB 2.0

Program memory and tool memory

- SSD flash disk with space for at least 7,000 programs and 7,000 tools

Axes

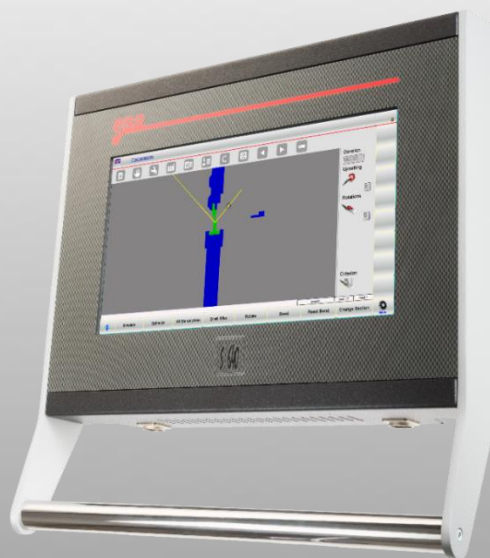
- Maximum 6 CNC axes
- In addition, control of the hydraulic crowning or Wila inputs with single-ended incremental encoder (5 V TTL) or Line Driver (RS 422)
- Max. Encoder input frequency 500 kHz

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 expansion via ESAring interface with up to 128 digital inputs, 128 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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