EMBEDDED RELIABILITY

DA-69S

DA-60S - series 3D graphical control for CNC press brakes



The DA-69S flagship control combines solid fundamental press brake control functionality with the latest of enhancements increasing productivity. Next to highest accuracies, ease-of-use for the operator it makes today's press brakes more versatile than ever. Integration of machines in the manufacturing process chain is what it is all about.

The control operation, based on state-of-the art industrial touch screen technology, gives access to the proven renewed Delem user-interface and enables direct navigation between programming and production. Functions are directly located where you need them, offering optimised ergonomics throughout the application.

State-of-art function complete

The DA-69S offers 2D as well as 3D programming that includes automatic bend sequence calculation and collision detection. Full 3D machine set-up with multiple tool stations giving true feedback on the product feasibility and handling. The offline programming, as it comes with Profile-S 3D, increases efficiency and machine uptime. DXF import as well as 3D import are available to help convert designs as well as tooling.

Highly effective control algorithms optimise the machine cycle and minimise set-up time. The required application configuration can easily be adapted using the modular concept and scaling functionality.

The proven real-time Linux operating system enables strong integration with the application and is a sturdy base for maximum reliability. Smooth start-ups are ensured, even after instant shut-off.

The OEM-panel located above the screen, reserved for machine functions and OEM-application switches, is integrated in the design and can be used depending on the required application.

DA-69S features:

- 3D and 2D graphical touch screen programming mode
- 3D visualisation in simulation and production mode
- 24" high resolution colour TFT
- Delem Modusys compatibility (module scalability and adaptivity)
- USB, peripheral interfacing
- Support for Industry 4.0 connectivity (OPC-UA optional)
- Shop floor control, Job list functionality
- Open system architecture
- Sensor bending & correction interface
- Profile-S 3D offline software

Specifications DA-69S

Product configuration

Standard

- Colour LCD display
- 24" TFT, high brightness
- 1920 x 1080 pixels, 32 bit colour
- Full touch screen control
- Storage capacity 4 GB
- 3D graphics acceleration
- Network connectivity
- Emergency switch
- Integrated OEM-panel
- USB flash memory drive
- Profile-S 3D offline software

Ordering information

- DA-69S
- DA-69S-P, CNC panel version

Factory option

- Panel version

Field options

- Part support control
- X1-X2 angle programming
- Barcode reader interfacing
- Protractor interfacing
- Frame deflection compensation
- Sensor bending & correction interfacing
- Sheet thickness measurement and compensation system
- ACP (Additional Control Panel)
- OPC-UA interface



Panel type housing DA-69S-P

Technical specification

General

- Real-time Linux embedded OS
- Multitasking environment
- Instant Shut Off
- Delem Modusys compatible

Electrical / interfacing

- Power supply: 24V
- Modusys HSB bus
- RS232 port (2x)
- Network interface (3x)
- USB port (2x)
- Protractor interfacing
- Angle control interfacing

Control

- Servo- / 2 speed AC control
- Unipolar / frequency inverter control
- Direct pressure valve control
- Direct proportional valve Y1, Y2 control
- Direct crowning control
- Multiple digital function outputs
- Tandem operation (multiple)

Mechanical

- Housing 611x547x123 mm
- Panel version 596x402x63 mm
- Design, glass surface, aluminium edge
- IP54
- Weight approx. 14.5 kg (incl. housing), 9 kg (panel version)

Programming

- Alphanumeric product naming
- 2D/3D real-scale product programming and visualisation
- Job list functionality
- Automatic bend sequence calculation in 2D and 3D
- Easy graphical bend sequence swap and move
- Hemmed products programming
- One page programming table
- Graphical product and tool selection
- Programmable material properties
- Programmable axis speed
- Free material programming
- Product & tool search filter
- Millimetres/Inches, kN/Ton selection
- Stock counter
- Product notes
- DXF import support

Tooling

- Graphical tool configuration
- Multiple tool station set-ups
- Tool segmentation visualisation
- Alphanumeric tool identification
- Free graphical tool programming
- Hemming tools
- Radius tools
- Tool adapter support
- DXF tool import

Computed

- Tooling safety zones
- Press force
- Bend allowance
- Crowning adjustment
- Developed length
- Bottoming force
- Hemming force
- Auto bumping calculation
- Radius programming
- Bend allowance table
- Tool configuration
- Tool segmentation
- Learned angle correction database

Miscellaneous

- 'Teach-in' on all axes
- Handwheel movement of all axes
- Operator selectable dialogue languages
- Integrated help functions
- Error messaging system
- Diagnostic program
- Remote diagnosis
- Software OEM panel
- User specific applications support
- Machine time + stroke counter
- On board Analysis Tool
- Sequencer functionality (PLC)
- SafetyPLC interfacing

Luchthavenweg 42, 5657 EB Eindhoven, The Netherlands
T: +31 (0)40 2552969 www.delem.com

8097-910A