

DA-58T

Compact 4-axes colour graphical CNC system for press brakes

Delem



Compact solutions

The DA-58T touch CNC control provides a modern compact and versatile solution for powerful economic press brake applications.

The new generation **DA-50T-series** offers easiest CNC programming based on the Delem graphical **touch screen** user interface.

The **DA-58T** is a state of the art complete 2D graphical control solution for synchronized press brakes.

Its 15" high resolution colour TFT, with industrial grade **multi touch screen technology**, gives access to the proven Delem user-interface. It enables **direct navigation** between product programming and actual production. Functions are directly located where needed, offering **optimised ergonomics** throughout the entire application.

Machine adjustment and test bends are reduced to a minimum with a quick and easy **program-to-production** work sequence. CNC programs are generated with a single touch. You are immediately ready to make the first part since all axes positions are automatically computed and the bend sequence has been **simulated** with machine and tools in real scale.

The DA-58T offers 2D programming including **automatic bend sequence calculation** and **collision detection**.

The **production mode** of the DA-58T helps the operator in graphically simulating the bend process of the product, guiding him during the press brake operation.

The standard machine control functions are Y1-Y2 and X axis. A second back gauge axis can be used as R or Z axis. Also crowning control is standard on board.

DA-58T features:

- 2D graphical touch screen programming
- 15" high resolution colour TFT
- Bend sequence calculation
- Crowning control
- Servo and frequency inverter control
- Advanced Y-axis control algorithms for closed-loop as well as open-loop valves.
- USB, peripheral interfacing

Specifications DA-58T

Product configuration

Standard

- Colour high brightness LCD display
- 15" TFT
- LED backlight
- 1024 x 768 pixels
- Industrial grade touch screen
- Storage capacity 1 GB
- USB flash memory drive
- Data backup / restore via USB
- Integrated valve amplifier
- Power-down memorisation

Field options

- Network connectivity
- TandemLink

Ordering information

- DA-58T, CNC in robust housing
- DA-58T-P, CNC panel version



Technical specification

General

- Multi touch industrial touch screen
- Instant Shut Off

Electrical / interfacing

- Power supply: 24V
- Opto-isolated digital I/O
- Integrated valve amplifier Y1, Y2
- Encoder inputs (single/diff.5V/12V)
- RS232 port
- Network interface
- USB port

Control

- Servo control
- Unipolar / frequency inverter control
- Pressure valve control
- Proportional valve control
- Crowning control
- Multiple digital function outputs
- Tandem operation (dual)

Mechanical

- Housing 405x388x122 mm
- Design, aluminium edge
- IP54

Programming

- Alphanumerical product naming
- Real-scale product programming and visualisation
- Automatic bend sequence calculation
- Easy graphical bend sequence swap and move
- Hemmed products programming
- Radius programming (bumping)
- 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

Tooling

- Tool library 30 punches / 60 dies
- Alphanumeric tool identification
- Free graphical tool programming
- Hemming tools
- Radius tools

Computed

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

Miscellaneous

- 'Teach-in' on all axes
- Operator selectable dialogue languages
- Integrated help function
- Error messaging system
- Diagnostic program
- Remote Assistance option
- Machine time + stroke counter
- On board Analysis Tool
- Sequencer functionality (PLC)
- Safety PLC interfacing