

DA-53T

Compact 4-axes touch colour CNC system for press brakes

Delem



Compact without compromise

The DA-53T touch CNC control provides a modern compact and versatile solution for a wide range of press brake applications without compromising machine functionality.

The **DA-50T-series** offers easiest CNC programming based on the Delem graphical **touch screen** user interface. The new compact **DA-53T** adds a state of the art complete touch control solution for synchronized press brakes.

This panel based control, standard capable of controlling up to 4 axes, can be integrated in cabinets as well as used in an optional pendant arm housing. Its 10.1" wide screen high resolution colour TFT, with industrial grade **multi touch technology**, gives access to the proven Delem user-interface. It enables **direct "hot-key" touch navigation** between product programming and actual production. Functions are 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.

USB interfacing enables fast product and tool backup using USB memory sticks.

The standard machine control functions are Y1-Y2, X, R-axis and crowning. The second back gauge axis can also be set as Z axis.

DA-53T features:

- "Hot-key" touch navigation
- 10.1" high resolution colour TFT
- Up to 4 axes (Y1,Y2 + 2 aux. axes)
- Crowning control
- Tool / material / product library
- Servo and frequency inverter control
- Advanced Y-axis control algorithms for closed-loop as well as open-loop valves.
- TandemLink (option)
- USB memory stick interfacing
- Profile-53TL offline software

Specifications DA-53T

Product configuration

Standard

- Colour high brightness LCD display
- 10.1" wide screen TFT
- LED backlight
- 1024 x 600 pixels
- Industrial grade touch screen
- Storage capacity 1 GB
- Data backup / restore via USB
- USB flash memory stick
- Integrated valve amplifier
- Power-down memorisation
- Profile-53TL offline software

Factory option

- Pendant arm type housing

Field options

- TandemLink



Panel type housing DA-53T-P

Ordering information

- DA-53T, CNC in robust housing
- DA-53T-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, P
- Encoder inputs (single/diff.5V/12V)
- RS232 port for safety PLC
- USB port

Control

- Servo control
- Unipolar / frequency inverter control
- Pressure valve control
- Proportional valve control
- Crowning control
- Multiple digital function outputs

Mechanical

- Housing 373x368x122 mm
- Panel 311x222x60mm
- Design, glass surface, aluminium edge
- IP54
- Weight 9 kg (incl. housing)

Programming

- Alphanumerical product naming
- Hemmed products programming
- Radius programming (bumping)
- One page programming table
- Programmable material properties
- Programmable axis speed
- Millimetres/Inches, kN/Ton selection
- Stock counter

Tooling

- Tool library 30 punches / 30 dies
- Alphanumeric tool identification
- Hemming tools
- Radius tools

Computed

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

Miscellaneous

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