

COMPACT WITHOUT COMPROMISE

# DA-53T

Compact 4-axes graphical touch  
CNC system for press brakes



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 proven Delem touch screen user interface. The new compact DA-53T with large screen adds a state of the art complete touch control solution, with newly added 2D graphical programming functionalities, for synchronized press brakes.

## Compact Control solution

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. Optionally the control can be expanded with Z-axes control, supporting up to 2 additional Z-axes. Its 15.6" wide screen high resolution colour TFT, with industrial grade multi touch technology, gives access to the user friendly 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.

In the DA-53T machine adjustment and test bends are reduced to a minimum with a quick and easy program-to-production work sequence.

## State-of-art function complete

Next to a full package of functionality and functions which make everyday work as easy as possible, now 2D graphical product and tool programming is supported. USB interfacing is standard and enables fast product and tool backup using USB memory sticks.

## DA-53T features:

- "Hot-key" touch navigation
- 15.6" high resolution wide screen TFT
- 2D graphical programming
- Up to 4 axes (Y1,Y2 + 2 aux. axes), ext. to 6<sup>(optional)</sup>
- Z-axes control <sup>(optional)</sup>
- 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 <sup>(optional)</sup>
- Network interfacing <sup>(optional)</sup>
- Support for Industry 4.0 connectivity, OPC-UA interface <sup>(optional)</sup>
- Profile-53TL offline software

**Delem**

Part of KEBA group.

Everything under control

# Specifications DA-53T

## Product configuration

### Standard

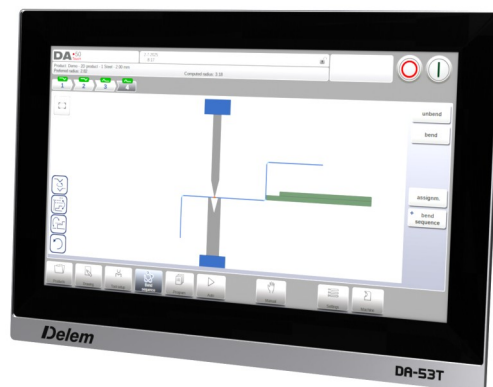
- Colour high brightness LCD display
- 15.6" wide screen TFT
- LED backlight
- 1366 x 768 pixels
- Industrial grade touch screen
- Storage capacity 1 GB
- Data backup / restore via USB
- USB flash memory stick
- Integrated valve amplifier
- Power-down memorisation
- Profile-53TL offline software

### Factory option

- Pendant arm type housing

### Field options

- Network connectivity
- Z-axes control
- TandemLink
- OPC-UA interface
- External Handwheel, DHT-01



Panel type housing DA-53T-P

## Ordering information

- DA-53Tx, CNC in robust housing
- DA-53Tx-P, CNC panel version

## Technical specification

### General

- Real-time Linux embedded OS
- Multi touch industrial touch screen
- Instant Shut Off

### Electrical / interfacing

- Power supply: 24V DC
- 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
- Tandem operation (dual)

### Mechanical

- Housing 419 x 349 x 127 mm
- Panel 406 x 272 x 50 mm
- Design, glass surface, aluminium edge
- IP54
- Weight 7 kg (incl. housing)

### Programming

- Alphanumerical product naming
- 2D graphical product programming
- Graphical bend sequence programming
- 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
- 2D graphical tool drawing
- 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
- Remote Assistance (option)
- Machine time + stroke counter
- Software OEM panel
- On board Analysis Tool
- Sequencer functionality (PLC)
- Safety PLC interfacing