

# DA-56s

Compact 4-axis colour  
graphical CNC system  
for press brakes

# Delem



## Compact solutions

The DA-56s provides a modern compact and versatile solution for powerful economic press brake applications.

The compact DA-56s provides easy CNC programming with the Delem 2D graphical product design tool. Machine adjustment and test bends are reduced to a minimum because of the quick and easy to use bend sequence determination tool.

The CNC program is generated with a one touch key stroke. You are ready to make the first part since all axes positions are automatically computed and the bend sequence has already been simulated on the screen with the machine and tools in real scale.

In the production mode of the DA-56s the operator can graphically simulate the bend process of the product guiding him during the press brake operation.

The basic machine control functions are Y1-Y2 and X axis, a second back gauge axis can be used as R/Z or X2 axis. Also the crowning function is standard on board.

The CNC control is based on the latest technology giving flexibility to use. On board USB interfacing gives a fast product and tool backup medium.

With the colour TFT LCD screen and the modern User Interface, the user has a clear and fast programming facility. Offline programming is possible with the DA-Offline solutions.

## DA-56s features:

- 2D graphical programming
- 10,4" LCD TFT colour display
- Bend sequence determination
- Developed length calculation
- Crowning control
- USB peripheral interfacing
- Servo, frequency inverter and AC control
- Advanced Y-axis control algorithms for closed-loop as well as open-loop valves.

# Specifications DA-56s

## Product configuration

### Standard

- Synchronised / conventional press brake control
- Colour LCD display
- LED backlight
- 10,4" TFT, 800x600
- 500 MHz processor
- Short travel keyboard technology
- Memory capacity 256 MB
- Tool library
  - o 30 punches
  - o 60 dies
- Data backup / restore via USB
- Power-down memorisation
- Integrated valve amplifier

### Ordering information

- DA-56s, CNC in robust housing

### Field options

- Automatic bendsequence calculation
- Windows® networking



DA-56s

## Technical specification

### Mechanical

- Housing 561x348x122 mm
- Design aluminium edge
- IP54
- Weight 10.3 kg (incl. housing)

### Electrical / interfacing

- Opto-isolated digital I/O
- Encoder inputs (single/diff.5V/12V)
- Integrated valve amplifier Y1, Y2
- RS232 port
- USB port
- Network interface (100Mb/10Mb)

### Control

- Servo- / 2 speed AC control
- Unipolair / frequency inverter control
- Direct pressure valve control
- Direct proportional valve Y1, Y2 control
- Up to 5 digital function outputs
- Tandem operation

### Programming

- 7 digits program number
- 20 character drawing number
- Stock counter (up to 9999)
- Step repetition (up to 99)
- Millimeter / Inch
- Programmable axis speed per step
- Programmable material properties
- 2D product programming and visualization
- Graphical bend sequence determination
- Fast collision check
- Free programmable tools
- Graphical tool programming
- Radius programming (bumping)

### Backgauge configurations

- X, R
- X, Z
- X1, X2
- X, Z, RD

### Computed

- Tooling safety zones
- Press force
- Bend allowance
- Crowning adjustment
- Bottoming force
- Angle correction database
- Developed length
- Auto bumping calculation

### Miscellaneous

- Diagnostic program
- Sequencer functionality (PLC)
- Error messaging system
- On board analysis
- Operator selectable dialogue languages
- Help texts via online support
- Safety PLC interfacing