

SANDFELD[®] AS

VÆRKTØJSMASKINER

Birkegårdsvej 2 · 7400 Herning · Denmark · Phone +45 97 11 92 22 · www.sandfeld.com



MANUFACTURED *TO YOUR REQUIREMENTS*



CNC EVO

NC EASY COMMAND



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 **CNC TOUCH COMMAND**

CNC entirely designed and manufactured by MG DELSY, the result of years of direct experience. The operator panel has an easy-to-use man-machine interface. A powerful digital motor offers an optimized control precision for bending machines, thanks to the "closed loop" system that constantly controls the position of the axes and their interpolations. Recommended for high volume production, or for bending of complex shapes: variable radius, ovals and elliptical shapes. Programs: unlimited. Steps per program: unlimited. Linux Real Time operating system. 3D graphics engine. Industrial components with extended temperature range: Quad core Atom 1.6 GHz fan-less, SODIMM DDR3L 2 GB memory, Front panel with 4 USB 3.0-2.0 ports and 1 Ethernet RJ45. Movements in automatic synchronization. Expandable I / O for additional axes. Closed loop controlled proportional valves. RS485-RJ45-CANBUS-Ethernet IP communication BUS.

AVAILABLE VERSIONS

TOUCH COMMAND *EVO*

- 15-inch digital touch screen.
- Automatic and manual movements of the axes.
- Digital position displays: Parallel axes X, Y and conicity Cx, Cy; Central axis lower roller U (if provided on the machine), Rotation, Central roller pressure (if the U axis is provided on the machine), accessories.
- Digital display of the signals: P0, Opening and closing yoke, Emergency.
- Reset axes when starting a new process.
- Manual and Automatic Processing.
- Creation of self-learning programs.
- Creation of programs in Auto-calculation (management of shapes and sheets).
- I / O diagnostics
- Network connection directly on the CNC.

TOUCH COMMAND *EVO 4.0*

- Same features as "Touch Command EVO" with, in addition:
- CNC connection by Ethernet cable directly on the electrical panel.
- Integrated Web App (visible only within the local network), that allows to view the Machine status, Order management, Executed programs, Production Charts, Maintenance. ✦
- Added sensors to check the machine status in real time (e.g. oil filter or oil temperatures)
- Allows "Industry 4.0" certification.

TOUCH COMMAND *EVO 4.0 PLUG-IN*

- Same features as "Touch Command EVO 4.0" with, in addition:
- Integrated Web App always visible (both from local network and external network) allows you to view: Machine status, Order management, Programs performed, Production Charts, Maintenance. ✦

TOUCH COMMAND *EVO PLUS*

- Same features as "Touch Command EVO 4.0 Plug-in" with, in addition:
- 21.5 inch digital touch screen.
- EPG - External Program Generator included:

Software that can be installed on Windows PCs (even more than one) with the perfect virtualized copy of the CNC purchased. It allows the creation of programs for the machine directly from the office that can be exported to a USB key and imported to the machine itself.

CNC EVO



*** Supplied by the Web App:**

PRODUCTION CHARTS

- The 6 most produced pieces each day, for 6 days.
- The 4 most produced pieces in the current week.
- The 4 most produced pieces in the current month.

MACHINE STATUS

- 5 V on / off power supply.
- 24 V on / off power supply.
- 12 V encoder on / off power supply.
- 12 V potentiometers on / off power supply.
- Oil level alarm on / off.
- Oil filter alarm on / off.
- Pump switched on / off.
- Oil Temperature.

MAINTENANCE SIGNAL

- Oil replacement.
- Oil filter check.
- Oil filter replacement.
- Bolts check.
- Yoke lubrication.
- Top roll adjustment.
- Oil check in the pressure gauges.
- Gear box attachment check.

ORDER MANAGEMENT

- Inserting, modifying and deleting orders.
- View the list of processing orders.
- View the list of completed orders.

EXECUTED PROGRAMS

- View the list of all executed programs.



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CNC EVO



NC EASY COMMAND

New and advanced numerical control system, with the possibility to control the three bending axes (X, Y, Z), side and central supports, clamping pressure, ejector control, feeding station through the interface with the PLC; archive of 9999 programs each of 99 lines, graphic interface with touch-screen. Diagnostics for checking the correct operation of the machine and its components (limit switches, encoders, input and output relays). Integrated alarm management. Notices to guide the operator during use.

AVAILABLE VERSIONS

NC EASY COMMAND TOUCH SCREEN

- Intuitive graphic interface with touch screen,
- Possibility to control up to 20 axes
- Possibility of managing complete sheet metal loading stations
- Real-time I / O diagnostics
- Alarm diagnostics and related history
- Up to 9999 storable programs

NC EASY COMMAND 4.0 TOUCH SCREEN

- Same features as "NC Easy Command" with, in addition:
- When connected to the company network, it generates a file in .csv text format with all available data (eg. program to be executed, programs executed, alarm log, recipes) that can be interrogated by a company server. Full integration is achieved via OPC-UA communication protocol. It is also possible to remote the operator panel on a PC, tablet or smartphone connected to the same local network.
- Easy Command 4.0 allows "Industry 4.0" certification.



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