

DUAL

SMART VIRTUAL DUAL MONITOR



DUAL22+

DUAL27+

INDUSTRY
4.0

FOR BENDING
APPLICATIONS

DUAL offers a virtual dual monitor that allows you to operate with maximum efficiency, having all informations under control and a fully Industry 4.0 compliance.

The beauty of technology

The new **DUAL** offers top level efficiency in press brakes programming and control. The winning Made in Italy design and the high quality of all the construction details, guarantee prestigious performances and a long product life.

Smart virtual Dual Monitor

In the second virtual monitor area, you can view useful documents such as images, videos, PDFs or live webcam, which can also be loaded from your mobile device, and visible and accessible during production. What is traditionally used as a paper support (drawings of the piece, specific details of the tooling or production sequence) becomes multimedia content available on the upper screen.

Fully Industry 4.0 compliance

It's **Industry 4.0 Ready** thanks to the production and maintenance management and support for remote programming and supervision. Machine status monitoring through cloud reporting and system integration into a smart factory, through support for the *MTCConnect* industrial communication standard and *IoT* support through *MQTT* protocol.

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Features

- **INDUSTRY 4.0 READY**
- **Production management and scheduling**
- Scheduled Maintenance Management for a machine always efficient
- IoT support through MQTT protocol
- Advanced programming assisted by attachments and video
- Sampling of the material for an accurate production
- Exporting of computed flat patterns as DXF files
- Tools and parts import from CAD (DXF and IGES/STEP on Advanced 3D)
- 3D Simulation with automatic best bend sequence identification with collision detection
- Automatic tool selection and machine tooling
- TeamViewer for Remote assistance
- Linux OS

Technical specification

CPU card	ITX module, low power consumption, Quad Core Intel 2.3GHz
RAM	DDR3 4Gb
Supply	24Vdc
Monitor	Colours LCD TFT, Capacitive Touch-screen
Hard Disk	M.2 SSD 128 GByte
USB	4 ports 3.0
Net Card	2 Gigabit Ethernet RJ-45
Power	36W (1.5A - 24Vdc)

Software Levels

Standard 3D	3D editor and simulation, DXF parts import
Advanced 3D	Add to Standard 3D the IGES/STEP parts import

Model	Software	Standard axes
DUAL 22	Standard 3D	12
DUAL 22+	Advanced 3D	12
DUAL 27	Standard 3D	12
DUAL 27+	Advanced 3D	12



Motion



3 4 4+

Motion is the modular units that STEP designed to interface and control all types of press brakes: hydraulics, electrical and hybrids.

Everything under control

It's equipped with a PLC logic with a lot of inputs/outputs. The numerical control, connected through Can Bus interface to one or more **Motion** modules, is able to completely manage the machine.

- **Motion3** is the **compact module** able to drive up to 3 axes.
- **Motion4** is the **standard module** able to drive 4 axes.
- **Motion4+** is the **All in One solution** which includes the digital amplifier board for the direct interface of the proportional valves.

	Motion3	Motion4 / Motion4+
Serials	n° 1 USB + n° 1 Canbus	n° 1 USB + n° 1 Canbus
Digital Inputs/Outputs	12 inputs 24Vdc - 12 outputs 24Vdc	24 inputs 24Vdc - 24 outputs 24Vdc
Encoders interface	3 inputs for incremental encoders (+5Vdc)	4 inputs for incremental encoders (+5Vdc)
Analogical Inputs/Outputs	2 analog inputs ±10V 3 analog output ±10V to control 3 axes	4 analog inputs ±10V 4 analog output ±10V to control 4 axes
Pressure / Crowning controls	2 analog outputs (0-10) V	2 current outputs 0÷4A (standard 2A) 2 analog outputs (0-10) V
Valves Interface (only Motion4+)	-	Double Valves connections for Y1 and Y2 LVDT feedback interface
Dimensions (HxWxD)	270 x 27 x 100 mm	270 x 50 x 100 mm

STEP AUTOMATION reserves the right to modify materials, dimensions and models of the articles of this leaflet without prior notice.



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