ROCK 17 +

EFFECTIVE SOLUTION

INDUSTRY 4.0

FOR BENDING APPLICATIONS

ROCK17+ offers many advanced features so it's able to meet all the demands of bending. The graphical user interface is simple and friendly, with a large display that allows a touch screen navigation intuitive and easy.

The beauty of technology

ROCK17+ offer the top level of efficiency in programming and control of press brakes. The winning Made in Italy design and the high quality of all the construction details, guarantee prestigious performances and a long product life.

Successfully controlling precision and productivity

Nowadays, modern sheet metal production is inconceivable without high performance software. Highly effective control algorithms optimize the machine cycle, reduce the time required for set-up and ensures consistently high quality.

Effective solution

The **Standard 3D programming**, that includes editor for profiles and boxes, DXF parts import and that provide 3D automatic bend sequence calculation, collision detection and 3D visualization in production, it's able to meet all the demands of bending.

STEP AUTOMATION

Features

- **INDUSTRY 4.0 READY**
  Production management and scheduling
- Sampling of the material for an accurate production
- Exporting of computed flat patterns as DXF files
- DXF Tools and parts import
- 3D Simulation with automatic best bend sequence identification with collision detection
- Automatic tool selection and machine tooling
- Tool navigator for a quick tooling up
- Quick and fine tuning set-up of the machine thanks to direct access to parameters and special function like realtime monitor and oscilloscope
- TeamViewer for Remote assistance
- Linux OS

Technical specification

CPU card	ITX module, low power consumption, Quad Core Intel Atom J1900 2.0GHz
RAM	DDR3 2Gb
Supply	24Vdc
Monitor	Colours LCD TFT, Capacitive Touch-screen
Hard Disk	mSATA 16 GByte
USB	2 ports 2.0 and 1 port 3.0
Net Card	2 Gigabit Ethernet RJ-45
Power	36W (1.5A - 24Vdc)

Software Levels

3D Profile	2D profiles editor with 3D simulation
Standard 3D	3D editor and simulation, DXF parts import

Model	Software	Standard axes
ROCK17	3D Profile	12
ROCK17+	Standard 3D	12

Motion

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	4 analog inputs ±10V
	3 analog output ±10V to control 3 axes	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