

# RK/ROCK<sup>22+</sup>

ADVANCED SOLUTION



RK22+



ROCK22+



**ROCK/RK22 offers a large and robust monitor that allows you to operate with maximum efficiency, having all information under control and a full compliance with Industry 4.0.**

### The beauty of technology

ROCK/RK22 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.

### Full compliance with Industry 4.0

It's **Industry 4.0 Ready** thanks to the production and maintenance management and the support to 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.



## 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

<b>CPU card</b>	ITX module, low power consumption, Quad Core Intel 2.3GHz
<b>RAM</b>	DDR3 4Gb
<b>Supply</b>	24Vdc
<b>Monitor</b>	Colours LCD TFT, Capacitive Touch-screen
<b>Hard Disk</b>	M.2 SSD 128 GByte
<b>USB</b>	4 ports 3.0
<b>Net Card</b>	2 Gigabit Ethernet RJ-45
<b>Power</b>	36W (1.5A - 24Vdc)
<b>RK Dimensions</b>	610x410x75 mm
<b>RK Weight</b>	7.5 Kg

## Software Levels

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

Model	Software	Standard axes
<b>ROCK/RK 22</b>	Standard 3D	12
<b>ROCK/RK22+</b>	Advanced 3D	12

## Motion



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**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.

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

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