

GENERAL DESCRIPTION & STANDARD EQUIPMENT

The EB-CNC-RH series electric VLB bending machines with **rotative head** are equipped with the latest Electric Motion technology. With **11 fully electric drive** axis, pipes with a diameter of **6 to 53 mm** can be bent. Equipped with a **Booster system**, it is possible to achieve radii up to 1D with reduced marks in the inner bend. The drives on all axes are optimized to **reduce energy consumption** and **increase speed**, making these machines ideal for **high volume production** batches that require **high consistency**. **Weld detectors**, **punching** and **cutting systems** or **integration into production systems** with **loading** and **unloading** facilities are options available for the EB series. VLB 3D software prepares these machines for **INDUSTRY 4.0**

MAIN FEATURES EB-RH SERIES

- 100% electric drive of all **11 axes**.
- Bending head with **360° radial axis and horizontal and vertical linear axis**.
- Bending **clockwise and counter clockwise** in automatic cycle.
- Bending of **multiple fixed and variable radii** in the same cycle.
- **Quick tool change**, without having to readjust.
- **High working speed** and **low power consumption**.
- Axis movements controlled by servo motors with **absolute encoder feedback**.
- Simplified **synchronization** and **optimization** of bending cycles.
- **Compact and ergonomic design** for optimal operating comfort and maintenance.
- Sensors that compensate for **material bending back** and provide greater **precision** and **less waste** during the bending cycle.
- Powerful and intuitive **VLB 3D software** with **anti-collision simulation**.
- **Easily program** or **import files** from the cloud or from the network
- Tool storage cabinet with internal illumination

TECHNICAL DATA

Bending Capacity

Mild steel ($R_m=50 \pm 5 \text{ kgf0/mm}^2$)	43x2 mm
Stainless steel ($R_m=70 \pm 7 \text{ kgf0/mm}^2$)	38x2 mm
Maximum section modulus ($R_m=50 \pm 5 \text{ kgf0/mm}^2$)	2.5 cm ³

Working specifications

Maximum fix centre line radius (CLR)	230 mm
Useful length (to POB clamp stop)	3000 mm
Useful length (pass thru POB)	4500 mm
Tube loading hight	1256 mm
Bending direction	Left and right
Standard shaft OD	55mm
Available hight for tools (stack*)	228mm

Electric Specifications

Voltage	400 V $\pm 10\%$
Frequency	47-63 Hz
Nominal current	36.8 A
Connection type	3 Phases without neutral
Installed power	25.5 kW
Protection	IP55
Auxiliary voltage	24 V DC

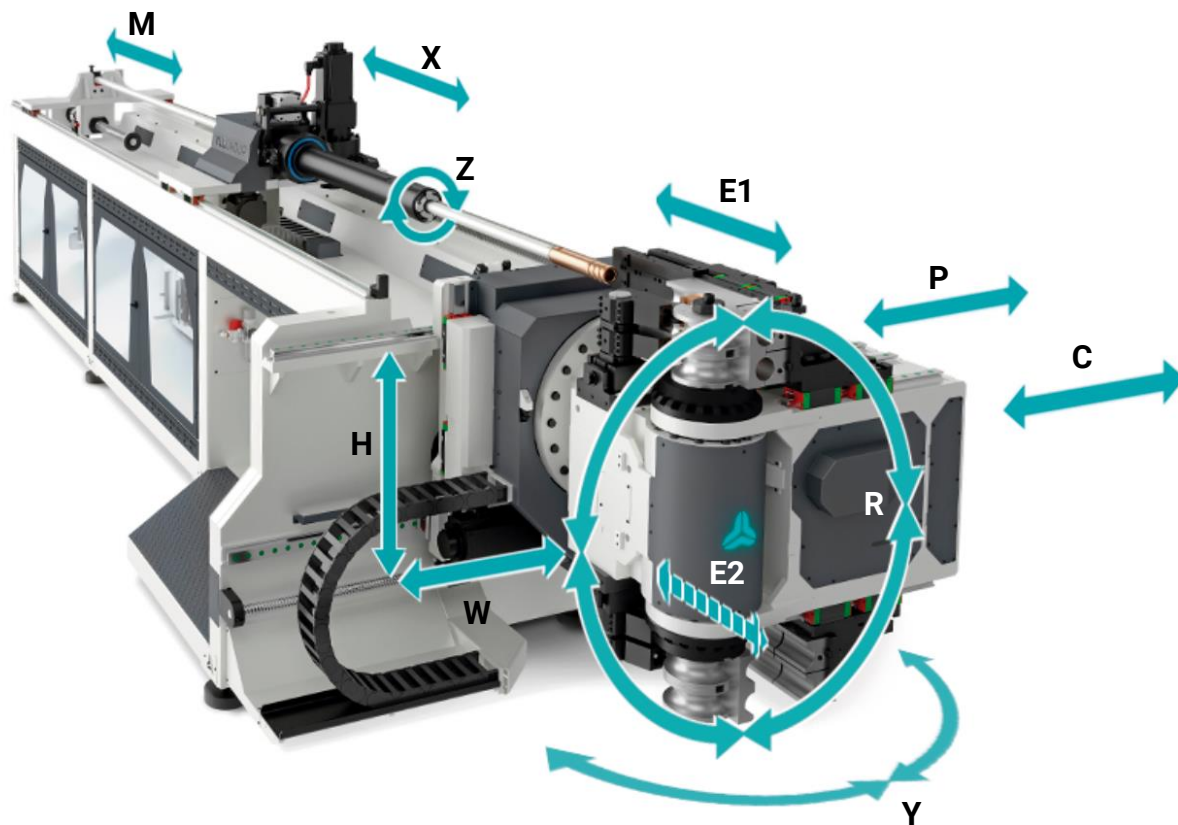
Compressed air

Air pressure	6 bar
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Overall dimensions (LxWxH)	6270 x 1950 x 1640
Weight	5200 kg

* - depending on application

MACHINE AXIS



CNC Independently controlled axis (Electric)	Speed	Stroke	Accuracy
Y Axis: Bending arm	148 °/s	190°	±0,05°
R Axis: Head Rotation	175 °/s	180°	±0,05°
H Axis: Bending head vertical movement	119 mm/s	300 mm	±0,05mm
W Axis: Bending head horizontal movement	310 mm/s	910 mm	±0,05mm
X Axis: Tube displacement	1500 mm/s	2940 mm *	±0,05mm
Z Axis: Tube rotation	650 °/s	360°	±0,05°
E1 Axis: Follower pressure die	500 mm/s	360 mm	±0,05mm
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C Axis: Tube clamping	104 mm/s	275 mm	±0,05mm
P Axis: Pressure die	104 mm/s	275 mm	±0,05mm
M Axis: Mandrel movement	210 mm/s	860 mm	±0,05mm

* - Standard useful length, additional length on request.