

## BENDING MACHINE



**stargroup**  
PERFORMING TUBING



# EVO BEND

250 • 450 • 650 • 800

### INNOVATION AND TECHNOLOGY

**EvoBend** is a tube bending line created to combine price, quality and design, in order to offer the right solution for automation levels up to 3 controlled axes.

Compact dimensions and capability up to  $\varnothing$  80mm make it a perfect entry-level machine for those who enter the world of tube bending machines or want to build a dynamic and productive bending job-shop.

### MAIN APPLICATION FIELDS

- Aerospace
- Furniture
- Automotive
- Bicycle frames
- Motorcycle
- HVAC
- Plant design

# BENDING MACHINE



		250	450	650	800
Max tube mild steel round tube	mm	25x3	45x3	65x5	80x5
Max tube stainless steel round tube	mm	20x2	35x2	60x3	76x2
Max tube metal alloy (Alu-Copper) in collet	mm	30x3	50x3	90x2	108x2
Max bending radius	mm	180	240	320	320
Useful length over the collet	mm	2100	3000	4200	4200
Useful length over the mandrel	mm	3500	4400	6000	6000
Max passage bar diameter	mm	28	45	78	78
Bending head heights	mm	220	290	520	520
Bending head lengths	mm	990	990	1125	1125
Bending head radius	mm	90	125	200	200
Operating power	V	220/400/480	220/400/480	400/480	400/480
Operating frequency	Hz	50/60	50/60	50/60	50/60
Max power	kW	10/15	18/27	30/50	30/50
Approximate weight	Kg	2900	3400	7600	7900
Bending direction		Sx o Dx	Sx o Dx	Sx o Dx	Sx o Dx

## MAIN FEATURES

- Calendering with boost function.
- Sturdy structure in electro-welded carpentry with integrated electrical cabinet.
- System management software (S.T.I.) with a simple, intuitive interface and 3D display of the bended tube.
- Up to 3 brushless electric axes, controlled by CNC.
- System compliant with CE requirements thanks to safety systems with laser barriers and protections.
- Separate and ergonomic control pulpit with 14"/ 21" multitouch video according to the configuration.
- The plant can be equipped with hydraulic unit for cutting, punching and marking.
- Safety area adjustable according to different bending lengths.
- Remote assistance available.
- Quick interchangeability of the bending system: compression, generation and calendering.

## ADVANTAGES

- Wide range of profiles (round, square and special profiles).
- Absolute position repeatability due to irreversible toggle locking of with absolute positioning.
- Bending of complex shapes thanks to limited dimensions of the bending head.
- Bending head with interchangeable passing shaft in order to use preexisting tools.
- Excellent bending quality thanks to the wide range of accessories such as wiper die, shaped clamps, split bend die and mandrel lubrication system.
- Driver with regenerative systems with energy savings of up to 40%.
- Mechanical predisposition to change the bending direction and to increase the useful length of raw material.
- Flexible system thanks to the possibility of multi-stack and multi-radius bending tools.
- Quick setting time allows to change sectors without disassembling the collet's body thanks to quick bayonet coupling.

