

Products



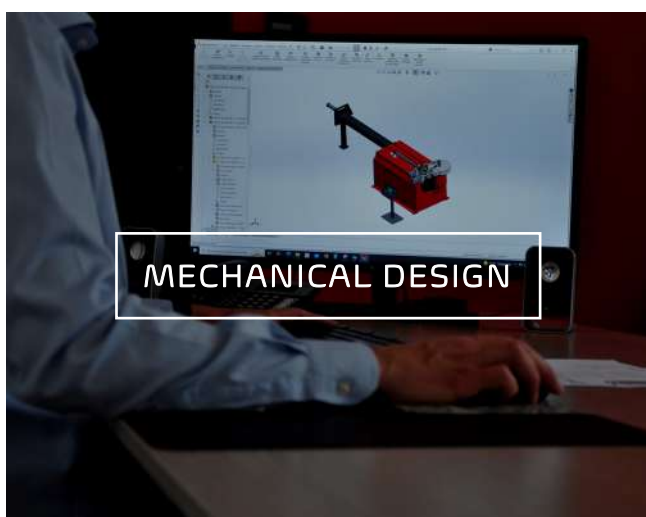
MEMOLI

BENDING MACHINES

MADE IN ITALY



Founded in **1967**, MEMOLI Company has been manufacturing bending machines ever since, for more than **55 years**. The Company started as a small craft-men workshop, which then developed its technologies and products to suit them to nowadays requirements.



Each Memoli machine is a unique and **customized** product, specifically designed to fulfill every single Customer's needs and resulted from the multiple possible combinations of models, sizes and equipment. Our commitment is constantly oriented at Customer satisfaction, because we believe in a long-lasting relationship with our dealers and our direct user Clients.



Made in Italy products are a guarantee: high quality and security standards mark Memoli machinery as a product of excellence, thanks to the long time expertise gained through decades in manufacturing machines capable of becoming really favorable solutions for the market requirements.

We also offer a consulting service through our internal technical department, which is always available to study and find out the best possible solution: our goal is actually our Customer's complete satisfaction.

■ 4 **EUREKAMATIC**
Universal bending machine

■ 6 **ETM**
Tube bending machine

■ 8 **ETM WITH MANDREL**
Tube bending machine with fix mandrel

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Hybrid semi-automatic Tube bending machine

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CNC Tube bending machine

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Angle rolls bending machine

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Coiling machine

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Ready to use





One machine only for **4 different operations**: circle-curve bending, angle-bending, tube bending with two options to bend with or without mandrel and scroll-bending.

Machined from solid cast iron block and designed to work cold iron, it is extremely easy to use because it is run and aided by an **incorporated software**, which allows total precision and efficiency of the curving system. The display shows the desired angle of curvature and constantly informs the operator about the position and **movements of the curving axis**.

The **software** allows the storage of 45 different angles of curvature. It is very easy and fast to change toolings. The machine can work both in manual and in **semi-automatic** mode, thus reducing working times and error possibility. It is also possible to have the clamping vice either pneumatic or hydraulic, besides some more customized options depending on the Customer's specific needs.

Eurekamic has been for many years so far one of the most requested and used machines by **blacksmiths** for their applications on tubes, profiles and square tubings, in order to carry out railings, handrails, tables, chairs, doors, windows, gratings and many more.

Technical specifications

Motor power	KW 3
Rotation speed	7 - 14 g/1'
Gears	In oil
Weight	280 kg
Size	850 x 620 x 980 h.

Eurekamatic AB-PF

Angle bender



Eurekamatic AB-CF

Circle-curve bender



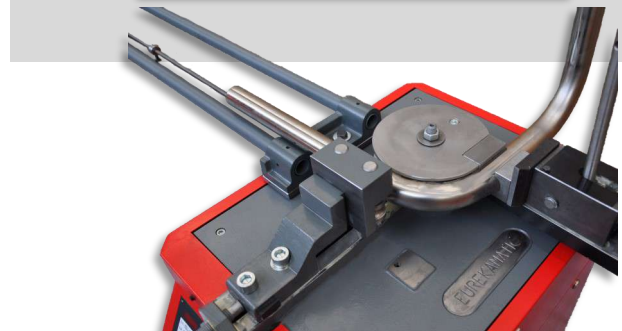
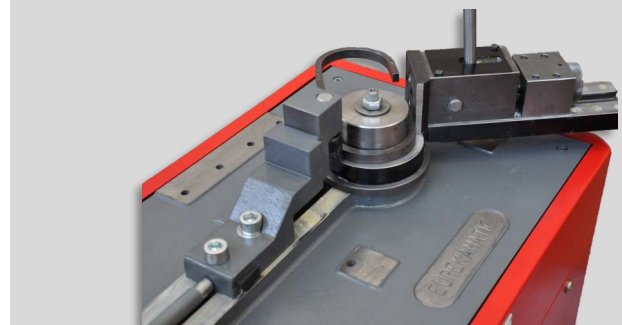
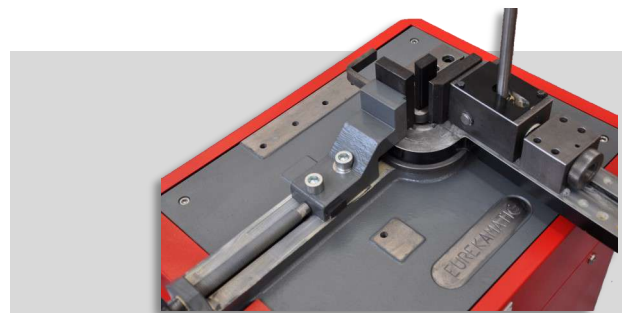
Eurekamatic AB-CTA

Tube&Pipe bender with/without mandrel



Eurekamatic CS

Scroll-spiral bender



Maximum capacities (mm)

Material	AB-PF	AB-CF	AB-CTA	CS
FE37 solid round	Ø 25	Ø 25	-	Ø 12
FE37 solid square	22	22	-	12
FE37 flat	100 x 10	50 x 15	-	30 x 12
FE37 pipe without mandrel	-	-	Ø 40 x 2	-
FE37 pipe with mandrel	-	-	Ø 30 x 2	-

All data may be subject to change without notice.



ETM 80

The ETM series is equipped with state of the art technologies meant to bend with or without mandrel tubes and profiles, and capable of bending both in right and left direction. It allows to bend tubes with a range diameter **from 8 mm up to 168 mm** and it can make curves **over 180°** with top finish quality for a minimum bending radius of 3 x the tube diameter. Every ETM machine is manufactured from single welded steel block and the toolings are machined from solid steel.

The system of **counter formers** is specifically designed to reduce mechanical effort and to make the bending operation faster than other brands machines of the same category, thus granting a very good finishing even when bending very thin wall thicknesses.

Thanks to its **new software** technology called "Digital Bend Programming Touch Screen", this machine is extremely easy to use: this software in fact was specifically studied for our machines and enables to select up to **49 programs** each of them with a 8-stop bending angle - sequence and to automatically adjust the material springiness (*springback*). Moreover, it allows to save and store one's projects as repeatable programs.

Technical specifications

	ETM 60	ETM 80	ETM 90	ETM 120	ETM 150
Motor power	KW 2	KW 2,2	KW 2,2	KW 3,5	KW 5,5
Rotation speed	5 g/1' *	2,5 g/1' *	1,5 g/1' *	1 g/1' *	0-5 g/1'
Gears	In oil	In oil	In oil	In oil	In oil
Weight	210 kg	560 kg	800 kg	1050 kg	2500 kg
Dimensions (mm)	600x500x950	810x1100x1200	870x1250x1300	1200x1300x1300	1700x1400x1600

* possibility of variable speed.



ETM 60



ETM 90



Positioner



Length and rotation measuring system with digital display

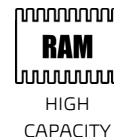
Maximum capacities (mm)

Material	ETM 60	ETM 80	ETM 90	ETM 120	ETM 150
FE	60 x 4	76 x 6	90 x 6	114 x 8	168 x 7
Aluminium	60 x 8	76 x 8	90 x 10	140 x 7	168 x 10
INOX AISI 308	60 x 3	76 x 4	90 x 4	114 x 6	168 x 5,5
Solid round	45	55	65	85	110
Square pipe	50 x 3	60 x 4	80 x 4	110 x 5	140 x 6

All data may be subject to change without notice.

ETM with mandrel

MANDREL MACHINES



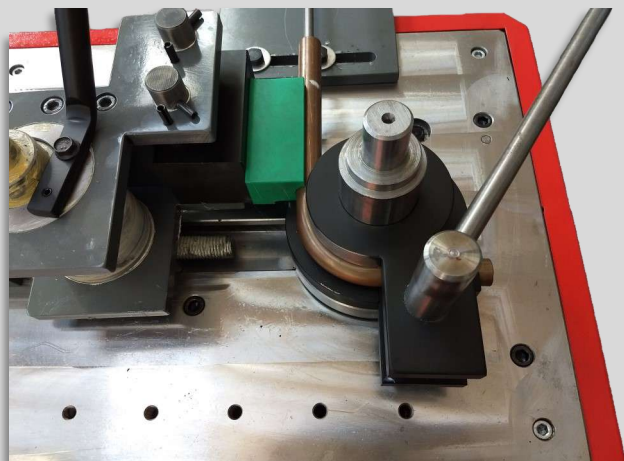
ETM 60

The ETM range of **fixed mandrel** bending machines is perfect for the machining of tubes of small wall thickness without deformation of the bent tube: a compact, high performance and cheap solution.

Our fixed mandrel ETM tube benders allow the machining of tubes up to **90 mm diameter** and are able to bend with high-level finish quality.

GENERAL FEATURES

- ✓ Carbon steel frame
- ✓ C45 molds, machined from solid – with (optional) hardening process
- ✓ Fixed mandrel position
- ✓ Eccentric clamp die
- ✓ Eccentric pressure die
- ✓ Compact machine
- ✓ Variable bending speed
- ✓ Positioning device for tube length and rotation, incl. 3-jaw spindle
- ✓ Useful tube length 1.5; 2.5; 4.5; 6 m
- ✓ Length and rotation measuring system with digital display



Eccentric clamp, top view



Eccentric clamp, front view



Fix mandrel

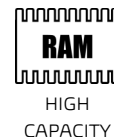


Positioner

Maximum capacities (mm)

Material	ETM 60	ETM 80	ETM 90
FE	50 x 3	60 x 3	80 x 3
Inox AISI 304	50 x 2	60 x 2	76 x 4
Aluminum	60 x 2	76 x 3	90 x 3
Square pipe	40 x 3	60 x 3	70 x 3

All data may be subject to change without notice.



ETM-H 63

The ETM-H range of **semi-automatic hybrid** tube bender is ideal for the machining of thin tubes without deformation of the processed tube: a compact, high-performance and economical solution. In semi-automatic bending machines of the ETM-H series, the bending function is performed automatically, while the feeding and rotation of the tube between the curves must be performed manually. Simplicity, sturdiness and precision are the key features of this particularly cost-effective line.

These bending machines are particularly used for the production of medium-small sized batches, for adaptation and maintenance work or as mobile bending machines on site.

When machining tubes with multiple curves, the **manual positioner** will greatly facilitate the work, as this device allows the exact fixing of the length of the tube and the rotation position between the curves.

As standard supply, this electric bending machine is equipped with a hydraulic mandrel extractor, hydraulic clamp die and pressure die, thus ensuring an excellent quality bend finish. Our ETM-H semi-automatic hybrid bending machines can bend tubes with a diameter up to **90 mm diameter** with maximum quality of finishing.



ETM-H 80

GENERAL FEATURES

- ✓ Electronic Control "Digital Bend Program Plus"
- ✓ Carbon steel frame
- ✓ Adjustable pressure dies
- ✓ Programmable advance mandrel extraction for optimized bending quality
- ✓ Interchangeable shaft for small bending radii
- ✓ Variable bending speed
- ✓ Positioner for tube length and rotation, incl. 3-jaw spindle (optional)
- ✓ Useful tube length 1.5; 2.5; 4.5; 6 m.
- ✓ Counter pressure die with automatic return
- ✓ Mandrel lubrication system (optional)
- ✓ Length and rotation measuring system with digital display

Maximum capacities (mm)

Material	ETM-H 50	ETM-H 63	ETM-H 80	ETM-H 89
FE	50 x 2,5	60 x 3	76 x 3	82,2 x 3
Inox AISI 304	50 x 1,5	60 x 2	76 x 2	76 x 3
Aluminum	60 x 4	60 x 7	76 x 4	90 x 3
Square pipe	40 x 2,5	50 x 1,5	60 x 2	65 x 4

All data may be subject to change without notice.



The ACH range is the series of **3-axis CNC bending machines** for the linear bending of tubes up to 65 mm diameter. The bending machines of the ACH series are fully automatic bending machines with CNC 3 axes: **bending** (Y axis), **advancement** (X axis) and **rotation** (Z axis).

This hybrid tube bending machine has been developed for the accurate bending of tubes and profiles. The main axes are **electrically** controlled, while the auxiliary axes are **hydraulically** controlled.

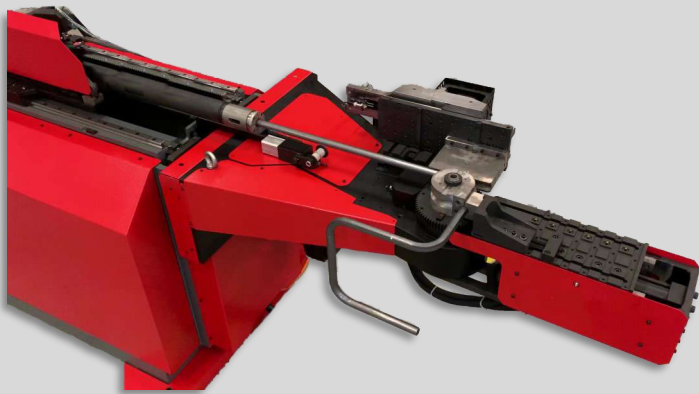
The extremely small bending head is made of steel with a chain-driven transmission to ensure more space in the sub-bending head; in this way, the machine can bend in a single cycle even tubes with the most complex geometries. The setup times are extremely short and ensure great flexibility.

The ACH series of CNC mandrel bending machines is developed and **produced entirely in Italy**, in close collaboration with the main tube bending Companies.

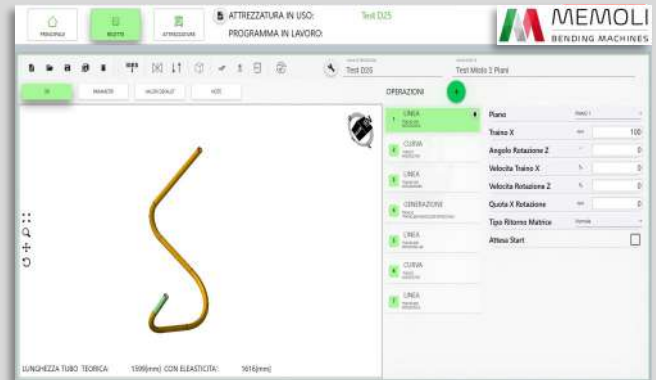
SOME MORE FUNCTION

- ✓ Primary axes handling with **brushless CNC motors**
- ✓ Toggle lock closure
- ✓ Programmable advance mandrel extraction
- ✓ Bending with **variable radius**
- ✓ **Rear booster**
- ✓ Preparation for punching accessory - Up/Down mold opening
- ✓ Compact and **exposed bending head** for maximum bending space

MEMOLI INTERFACE-SOFTWARE 3D BENDING



ACH 45



MEMOLI interface Software 3D bending

All of ACH mandrel bending machines are equipped with **MEMOLI interface – 3D bending software**, designed for tube bending applications. Extremely easy and intuitive, it allows you to program directly through the adjustment of **LRA** (length - rotation - angle). MEMOLI software is also compatible with a wide variety of **CAD** software programmes.

Thanks to the latest generation technologies it is possible to access main features as:

- ✓ Automatic **springback** compensation
- ✓ **Memorization** of tools configuration and geometry
- ✓ **3D** Tube Development Graphics
- ✓ Axis movement **simultaneously**
- ✓ Calculation of tube length.
- ✓ **Continuous** monitoring of the machine
- ✓ Software for **anti-collision** testing

Maximum capacities (mm)

Material	ACH 45	ACH 65
Steel with mandrel	45 x 2	65 x 2
Steel bending with interpolation	40 x 3	60 x 3
Aluminium	60 x 2	80 x 3
Aluminium bending with interpolation	50 x 2	65 x 3

All data may be subject to change without notice.

MEK 60-R

CNC PROFILE BENDING MACHINE



ENERGY
SAVER

TOUCH
SCREEN

USER
FRIENDLY

RAM
HIGH
CAPACITY



The MEK 60-R **three-roll hybrid profile bender** was designed to meet the demands of an increasingly demanding Customers base, with the need to bend all types of profiles and tubes with **accuracy** and very tight tolerances. The three driving rolls are driven by a powerful electric gearmotor that guarantees high positioning accuracy, while the independent planetary movement of the two bottom rolls is provided by two powerful hydraulic cylinders.

The Memoli MEK 60-R bending machine is equipped with high-strength shafts and rolls, side support system, touch screen and **CNC** control system. Thanks to Memoli's specially developed CNC bending software, the MEK 60-R profile bender can work in manual, semi-automatic and automatic modes.

This state-of-the-art software is based on a Windows PC with a touch screen display; bending programs can be created, managed and controlled intuitively without the operator needing any programming skills. The **3D graphical simulation** of the programmed workpiece will allow a visual check prior to machining execution.

Technical specifications

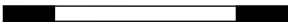
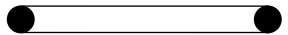
Motor output	KW 3,5
Rolling speed	0-7 g/1'
Shafts diameter	60 mm
Rolls diameter	On request (220 mm std.)
Weight	900 kg
Machine dimensions	740 x 1020 x 1110 h.
Console dimensions	590 x 710 x 1200 h.

All data may be subject to change without notice.

GENERAL FEATURES

- ✓ Three electric motorised rollers
- ✓ Hydraulic planetary bottom roller movement
- ✓ Working position with vertical and horizontal axes
- ✓ Execution of bending process in one or more steps, even with different radii within a component
- ✓ Creation of material library / springback diagrams for all materials
- ✓ Interface with CAD software
- ✓ Networking and integration into existing IT infrastructure
- ✓ Creation, management and backup of programme data independent of location via network integration
- ✓ Direct support from Memoli experts through remote maintenance capability

Maximum capacities (mm)

	Standard rolls		Special rolls	
	Max 70 x 15	to Ø 500	Small sections	to Ø 150
	Max 125 x 25	to Ø 500	Small sections	to Ø 150
	Max 40 x 40	to Ø 500	Small sections	to Ø 150
	Small sections	to Ø 500	Max Ø 50 Min no limit	to Ø 500 to Ø 150
	Special rolls only	to Ø 500	Max O.D. 60/(2" SCH40) Min no limit	to Ø 500 to Ø 150
	Small sections	to Ø 500	Max 50 x 50 x 6	*

* Min. bending diameter depends on grade of deformation that can be accepted.

All data may be subject to change without notice.



The HLN series of coiling lathes are **full electric CNC-controlled machines** designed for the manufacture of springs and augers. Designed and built entirely by Memoli, they are an effective and efficient solution capable of machining round, flat, square bars and tubes.

The design of our winding machines starts with the needs of each single Customer: we build customized machines specifically to achieve high final standards and optimise production costs.

Their strength is not only the final product: thanks to the '*CNC Coiling Program TouchScreen*', which provides the possibility to save your own designs as repeatable programmes, operation is extremely easy and fast.

GENERAL FEATURES

- ✓ **CNC Coiling Program TouchScreen** with internal memory for 500 programs, expandable, and remote connection via USB
- ✓ Right or left winding with constant or variable spiral pitch
- ✓ Quick spring extraction system with **automatic release**
- ✓ Rapid tool change
- ✓ Perimeter safety with **photocells**
- ✓ Variable speed
- ✓ Wire size $\varnothing 2$ to $\varnothing 80$ mm
- ✓ Flat size max. 70 x 10 mm
- ✓ Spring length max. 3000 mm



CNC Coiling Program Touch Screen

CUSTOM MACHINES

READY TO USE



One of our strength points is the realization of special machines meant to bend and curve any metal material.

They are designed and manufactured **on specific custom needs**, combining the best technical solution with the budget possibility of our Customers, aiming at granting top high production rates and optimizing the costs. These machines are manufactured and assembled with top quality mechanical and electronic parts in order to grant them a higher level of reliability.

In order to manufacture our custom machines, our design project service is always at your complete availability for the analysis and feasibility of your projects for cost estimate, lay-out and final realization of the required suitable machine.

The design of our special machines originates from the analysis of the workpiece according to the customer's individual needs: this way, we create tailored solutions by offering maximum **flexibility** in terms of construction and performance, with ad hoc features in order to achieve the goal.

Notes

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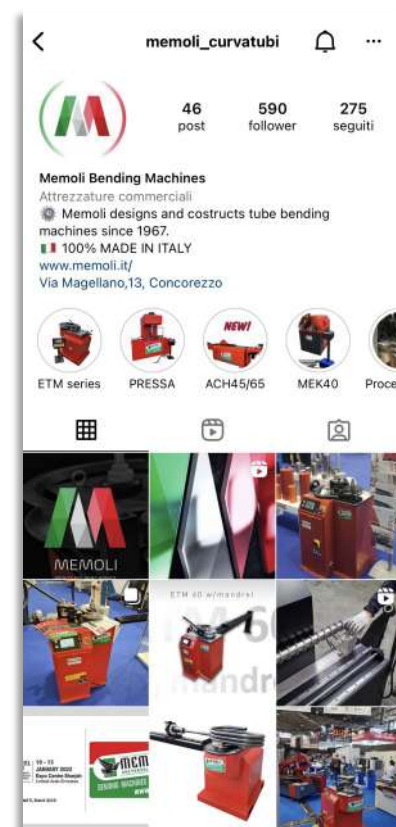
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MADE IN ITALY



Via Magellano 13
20863 Concorezzo (MB) ITALY

+39 039.60.42.210
info@memoli.it
www.memoli.it



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BENDING MACHINES