





Tube bending machine

Euro SERIES 35

The EURO Series 35 is a 1 axis (Y) tube for bending stainless steel, iron, copper or brass tubes or tubes in other special alloys up to 35 mm in diameter. The Euro Series 35 model features automatic bending and manual advancement and rotation.

The following are fitted as standard:

- heat exchanger;
- early mandrel extraction;
- automatic mandrel lubrication.

DATA SHEET - EURO



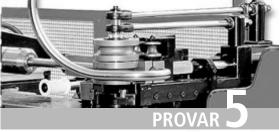
FEATURES	U.M.	EURO
Y Max. bending speed	°/1"	150
Y Tolerance	+/- °	0.1
Weight	+/- Kg	2800

BENDING CAPACITIES	U.M.	EURO
Round tube R=42 Kg/mm²	mm	35x4
Round stainless steel tube	mm	35x3
Round tube Alum. Brass Copper Alloys	mm	35x5
Square tube R=42 Kg/mm ²	mm	30x30x2
Rect. tube bent easy way	mm	20x35x2
Rect. tube bent hard way	mm	40x25x2
Round bar R=42 Kg/mm²	mm	25
Square tube R=42 Kg/mm ²	mm	20x20
Min. R.I. with normal axle	mm	≥25
Min R.I. special	mm	≤25
Max. R.M. with rolls	mm	200
Mandrel extraction stroke	mm	60
Max bending angle	o	195
Working length	mm	3450
Machine extensions	mm	1540

SERIE 35









Machine features are indicative and not binding. Macri Italia s.r.l. reserves the right to make changes for the purposes of technical improvement.

MACRI ITALIA SRL







Tube bending machine Profast SERIES 35

The PROFAST Series 35 is a fully automatic, 3 axis tube bending machine: bending (Y axis), advancement (X axis) and rotation (Z axis). The PROFAST Series 35 can bend tubes up to 35 mm in diameter.

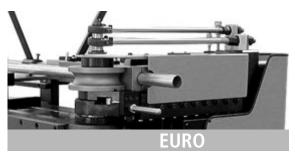
The following are fitted as standard:

- heat exchanger;
- early mandrel extraction;
- automatic mandrel lubrication.

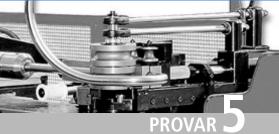
DATA SHEET - PROFAST



SERIE 35









FEATURES	U.M.	PROFAST
Y Max. bending speed	°/1"	150
Y Tolerance	+/- °	0.1
X Max. traverse speed	mm 1"	1000
X Tolerance	+/- mm	0.1
Z Max. gripper rotation speed	°/1"	540
Z Tolerance	+/- °	0.1
Weight	+/- Kg	3000

BENDING CAPACITIES	U.M.	PROFAST
Round tube R=42 Kg/mm ²	mm	35x4
Round stainless steel tube	mm	35x3
Round tube Alum. Brass Copper Alloys	mm	35x5
Square tube R=42 Kg/mm²	mm	30x30x2
Rect. tube bent easy way	mm	20x35x2
Rect. tube bent hard way	mm	40x25x2
Round bar R=42 Kg/mm²	mm	25
Square tube R=42 Kg/mm²	mm	20x20
Min. R.I. with normal axle	mm	≥25
Min R.I. special	mm	≤25
Max. R.M. with rolls	mm	200
Mandrel extraction stroke	mm	60
Max bending angle	0	195
Working length	mm	3450
Machine extensions	mm	1540

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MACRI ITALIA SRL





PROVAR 6 35 S

Tube bending machine Provar 5 Axis SERIES 35

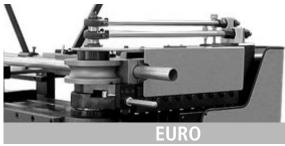
The PROVAR 5 Axis Series 35 is a fully automatic, 3 axis tube bending machine: bending (Y axis), advancement (X axis) and rotation (Z axis). The PROFAST Series 35 can bend tubes up to 35 mm in diameter and lateral movement of the positioner and the mandrel (axes B1 and B2).

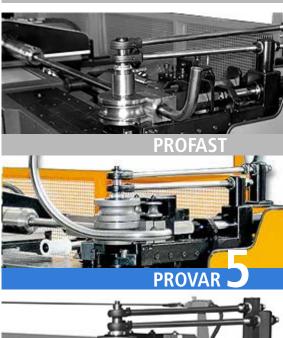
The PROVAR 5 Series 35 can bend tubes up to 35 mm in diameter and has two levels of equipment per fixed and variable radius or two different fixed radii.

The following are fitted as standard:

- heat exchanger;
- early mandrel extraction;
- automatic mandrel lubrication.

SERIE 35







DATA SHEET - PROVAR 5



FEATURES	U.M.	PROVAR 5
Y Max. bending speed	°/1"	150
Y Tolerance	+/- °	0.1
X Max. traverse speed	mm 1"	1000
X Tolerance	+/- mm	0.1
Z Max. gripper rotation speed	°/1"	540
Z Tolerance	+/- °	0.1
B1 Max. speed	mt/1"	24
B1 Tolerance	+/- mm	0.1
B2 Max. speed	mt/1"	24
B2 Tolerance	+/- mm	0.1
Weight	+/- Kg	3300

BENDING CAPACITIES	U.M.	PROVAR 5
Round tube R=42 Kg/mm ²	mm	35x4
Variable curve R=42 Kg/mm² RM min 10 D	mm	25x2
Round stainless steel tube	mm	35x3
Round tube Alum. Brass Copper Alloys	mm	35x5
Square tube R=42 Kg/mm²	mm	30x30x2
Rect. tube bent easy way	mm	20x35x2
Rect. tube bent hard way	mm	40x25x2
Round bar R=42 Kg/mm ²	mm	25
Square tube R=42 Kg/mm²	mm	20x20
Min. R.I. with normal axle	mm	≥25
Min R.I. special	mm	≤25
Max. R.M. with rolls	mm	200
Mandrel extraction stroke	mm	60
Max bending angle	0	195
Working length	mm	3450
Machine extensions	mm	1540

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PROFAST PROVAR 6

Tube bending machine Provar 6 Axis SERIES 35

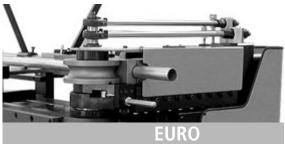
The PROVAR 6 Axis Series 35 is a fully automatic, 3 axis tube bending machine: bending (Y axis), advancement (X axis) and rotation (Z axis). The PROFAST Series 35 can bend tubes up to 35 mm in diameter and lateral movement of the positioner and of the mandrel (axes B1 and B2) and up-down movement of the head (axis A).

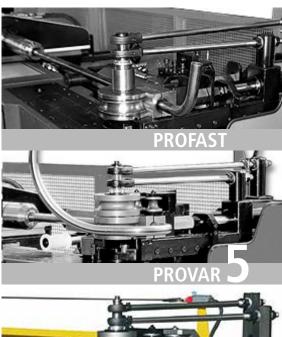
The PROVAR 6 Series 35 can bend tubes up to 35 mm in diameter and has two levels of equipment per fixed and variable radius or two different fixed radii.

The following are fitted as standard:

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SERIE 35







DATA SHEET - PROVAR 6

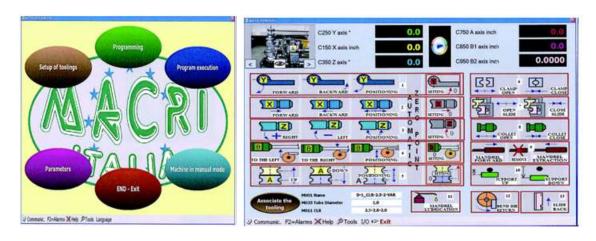


FEATURES	U.M.	PROVAR 6
Y Max. bending speed	°/1"	150
Y Tolerance	+/- °	0.1
X Max. speed	mm 1"	1000
X Tolerance	+/- mm	0.1
Z Max. speed	°/1"	540
Z Tolerance	+/- °	0.1
B1 Max speed	mt/1"	24
B1 Tolerance	+/- mm	0.1
B2 Max speed	mt/1"	24
B2 Tolerance	+/- mm	0.1
A Max. speed	mt/1"	3
A Tolerance	+/- mm	0.1
Weight	+/- Kg	3500

BENDING CAPACITIES	U.M.	PROVAR 6
Round tube R=42 Kg/mm ²	mm	35x4
Variable curve R=42 Kg/mm² RM min 10 D	mm	25x2
Round stainless steel tube	mm	35x3
Round tube Alum. Brass Copper Alloys	mm	35x5
Square tube R=42 Kg/mm²	mm	30x30x2
Rect. tube bent easy way	mm	20x35x2
Rect. tube bent hard way	mm	40x25x2
Round bar R=42 Kg/mm ²	mm	25
Square solid R=42 Kg/mm²	mm	20x20
Min. R.I. with normal axle	mm	≥25
Min R.I. special	mm	≤25
Max. R.M. with rolls	mm	200
Mandrel extraction stroke	mm	60
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Working length	mm	3450
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TUBE BENDING MACHINES SOFTWARE

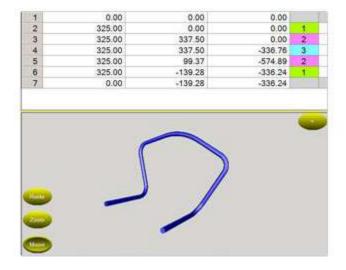


Exclusive software for the management of tube bender machines with an extremely easy and user-friendly graphic, three-dimensional interface.

A state-of-art solution for **great precision and maximum response speed** so as to reduce tolerances to a minimum

Through the **three-dimensional graphic interface and language assistance**, each operator can in fact:

- design and develop the tube design in machine, Cartesian and CAD coordinates;
- program the speed of each axis for each bend and the thrust;
- view the tube processing cycle in real time;
- calculate processing feasibility and, in the event of collision, make the necessary corrections automatically without deforming the item;
- quickly change and set up equipment and bend die;
- archive all programs created by code, name and graphic image.



TUBE BENDER CONTROL CABINET

All Macri Italia tube benders are operated by **an electric information system** that can be managed by means of a control cabinet located next to each machine.

The *touch-screen monitor* and <u>exclusive software</u> make this technologically avant-garde and easy to manage solution the unique selling point of the Macri Italia offering.

3/5/6 Axis Control Cabinet Features

- . Ergonomic control cabinet with front panel and 19" touch-screen monitor
- Compact industrial computer
- 80 Gb hard disk
- Integrated Ethernet network
- 3 serial ports
- 3 USB ports 1 at the front
- Multilingual last-generation operating system
- Keyboard and mouse.



1 Axis Control Cabinet Features

- · Air-conditioned control cabinet
- Small back-lit display
- . 200-program memory capacity

