

Tube bending machine

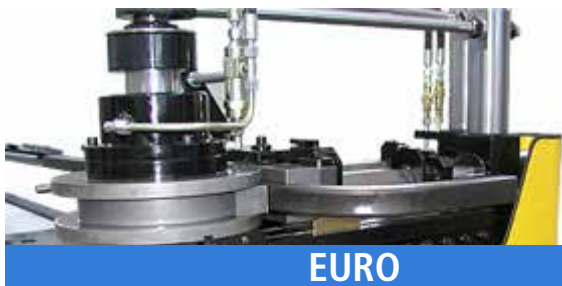
Euro SERIES 65

The EURO Series 65 is a 1 axis (Y) tube for bending stainless steel, iron, copper or brass tubes or tubes in other special alloys up to 65 mm in diameter. The Euro Series 65 model features automatic bending and manual advancement and rotation.

The following are fitted as standard:

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

SERIE 65



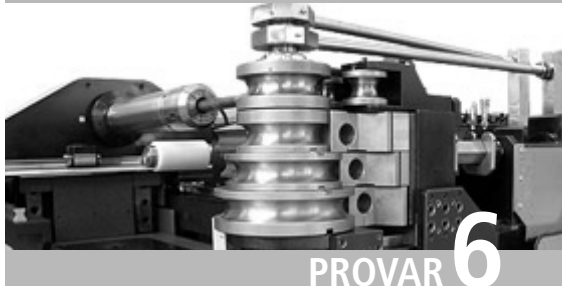
EURO



PROFAST

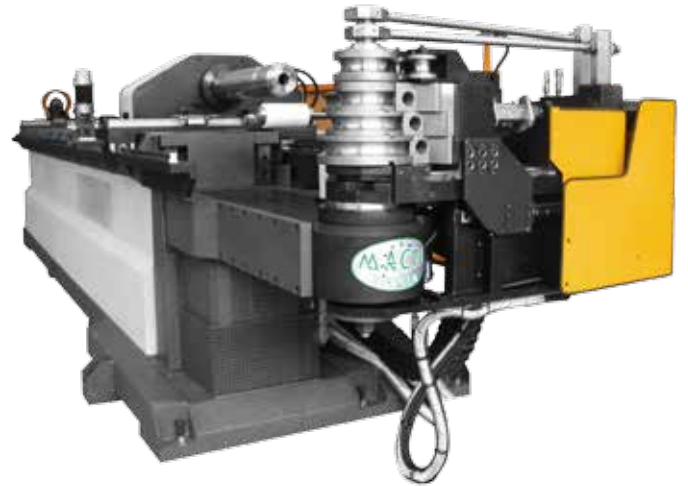


PROVAR 5



PROVAR 6

DATA SHEET - EURO



FEATURES	U.M.	EURO
Y Max. bending speed	°/1"	80
Y Tolerance	+/- °	0.1
Weight	+/- Kg	4200

BENDING CAPACITIES	U.M.	EURO
Round tube R=42 Kg/mm ²	mm	65x4
Round stainless steel tube	mm	60x3
Round tube Alum. Brass Copper Alloys	mm	65x5
Square tube R=42 Kg/mm ²	mm	50x50x2
Rect. tube bent easy way	mm	30x60x2
Rect. tube bent hard way	mm	60x55x2
Round bar R=42 Kg/mm ²	mm	35
Square solid R=42 Kg/mm ²	mm	30x30
Min. R.I. with normal axle	mm	≥45
Min R.I. special	mm	≤45
Max. R.M. with rolls	mm	340
Mandrel extraction stroke	mm	80
Max bending angle	°	195
Working length	mm	3600
Machine extensions	mm	1560

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

Tube bending machine

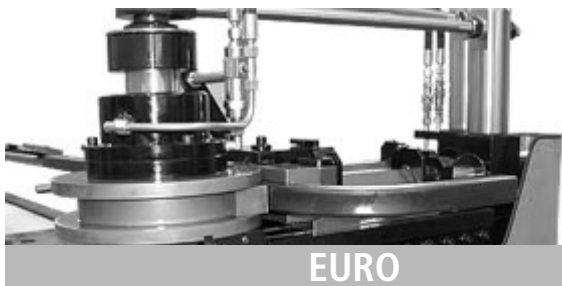
Profast SERIES 65

The PROFAST Series 65 is a fully automatic, 3 axis tube bending machine: bending (Y axis), advancement (X axis) and rotation (Z axis). The PROFAST Series 65 can bend tubes up to 65 mm in diameter.

The following are fitted as standard:

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

SERIE 65



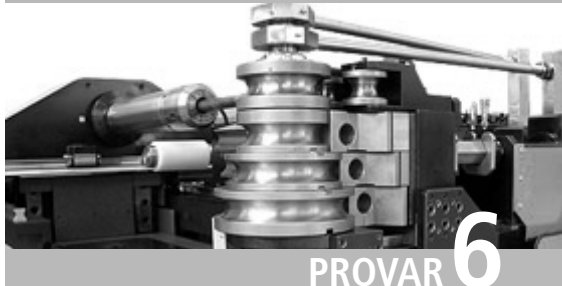
EURO



PROFAST

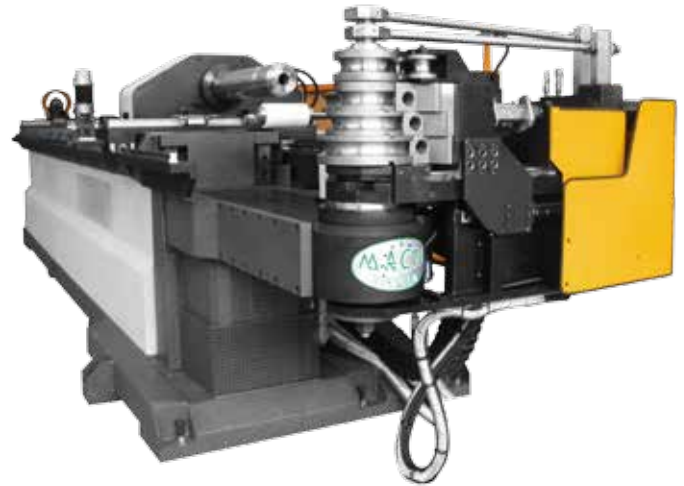


PROVAR 5



PROVAR 6

DATA SHEET - PROFAST



FEATURES	U.M.	PROFAST
Y Max. bending speed	°/1"	80
Y Tolerance	+/- °	0.1
X Max. Velocità	mm 1"	650
X Tolerance	+/- mm	0.1
Z Max. gripper rotation speed	°/1"	360
Z Tolerance	+/- °	0.1
Weight	+/- Kg	4500

BENDING CAPACITIES	U.M.	PROFAST
Round tube R=42 Kg/mm ²	mm	65x4
Round stainless steel tube	mm	60x3
Round tube Alum. Brass Copper Alloys	mm	65x5
Square tube R=42 Kg/mm ²	mm	50x50x2
Rect. tube bent easy way	mm	30x60x2
Rect. tube bent hard way	mm	60x55x2
Round bar R=42 Kg/mm ²	mm	35
Square solid R=42 Kg/mm ²	mm	30x30
Min. R.I. with normal axle	mm	≥45
Min R.I. special	mm	≤45
Max. R.M. with rolls	mm	340
Mandrel extraction stroke	mm	80
Max bending angle	°	195
Working length	mm	3600
Machine extensions	mm	1560

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Tube bending machine

Provar 5 Axis

SERIES 65

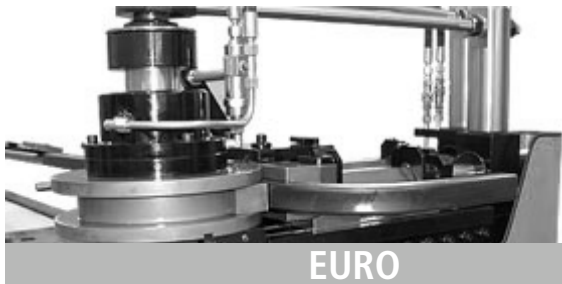
The PROVAR 5 Axis Series 65 is a fully automatic, 3 axis tube bending machine: bending (Y axis), advancement (X axis) and rotation (Z axis). The PROFAST Series 65 can bend tubes up to 65 mm in diameter and lateral movement of the positioner and the mandrel (axes B1 and B2).

The PROVAR 5 Series 65 can bend tubes up to 65 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 65



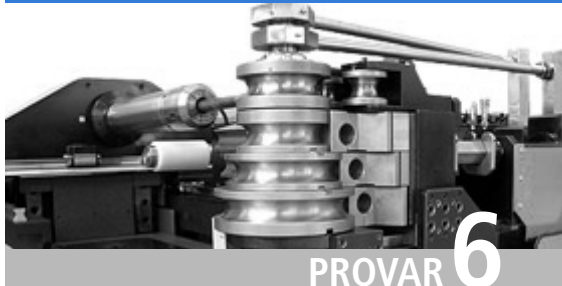
EURO



PROFAST

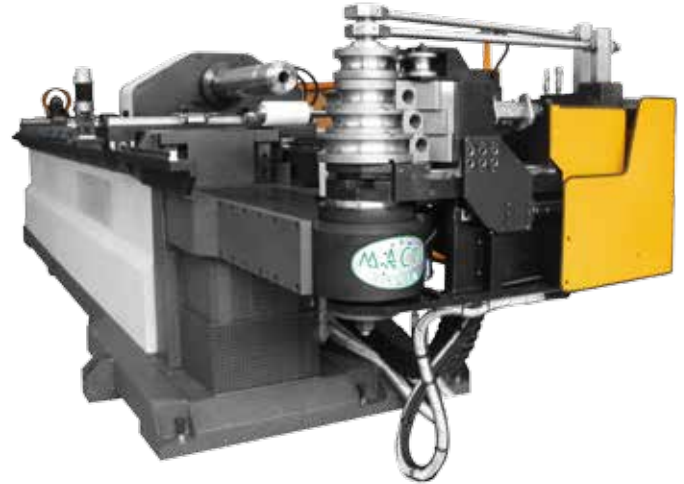


PROVAR 5



PROVAR 6

DATA SHEET - PROVAR 5



FEATURES	U.M.	PROVAR 5
Y Max. bending speed	°/1"	80
Y Tolerance	+/- °	0.1
X Max. traverse speed	mm 1"	650
X Tolerance	+/- mm	0.1
Z Max. gripper rotation speed	°/1"	360
Z Tolerance	+/- °	0.1
B1 Max. speed	mt/1"	12
B1 Tolerance	+/- mm	0.1
B2 Max. speed	mt/1"	12
B2 Tolerance	+/- mm	0.1
Weight	+/- Kg	4800

BENDING CAPACITIES	U.M.	PROVAR 5
Round tube R=42 Kg/mm ²	mm	65x4
Variable curve R=42 Kg/mm ² RM min 10 D	mm	60x2
Round stainless steel tube	mm	60x3
Round tube Alum. Brass Copper Alloys	mm	65x5
Square tube R=42 Kg/mm ²	mm	50x50x2
Rect. tube bent easy way	mm	30x60x2
Rect. tube bent hard way	mm	60x55x2
Round bar R=42 Kg/mm ²	mm	35
Square solid R=42 Kg/mm ²	mm	30x30
Min. R.I. with normal axle	mm	≥45
Min R.I. special	mm	≤45
Max. R.M. with rolls	mm	340
Mandrel extraction stroke	mm	80
Max bending angle	°	195
Working length	mm	3600
Machine extensions	mm	1560

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Tube bending machine

Provar 6 Axis

SERIES 65

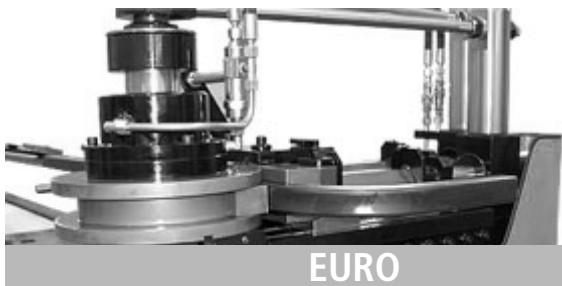
The PROVAR 6 Axis Series 65 is a fully automatic, 3 axis tube bending machine: bending (Y axis), advancement (X axis) and rotation (Z axis). The PROFAST Series 65 can bend tubes up to 65 mm in diameter and lateral movement of the positioner and of the mandrel (axes B1 and B2) and up-down movement of the head (axis A).

The PROVAR 6 Series 65 can bend tubes up to 65 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 65



EURO



PROFAST

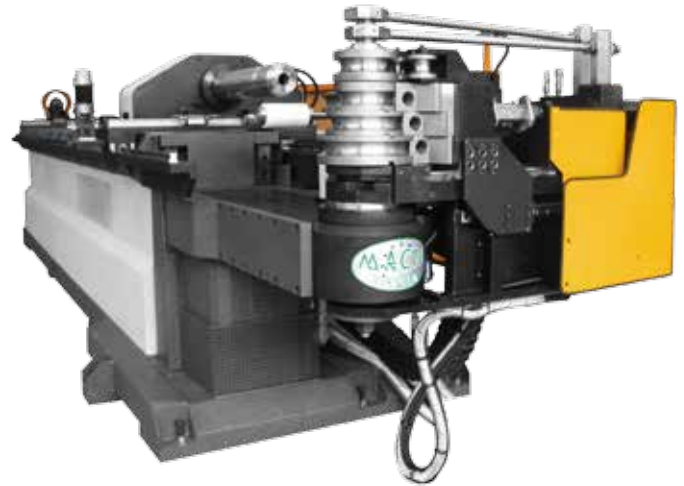


PROVAR 5



PROVAR 6

DATA SHEET - PROVAR 6

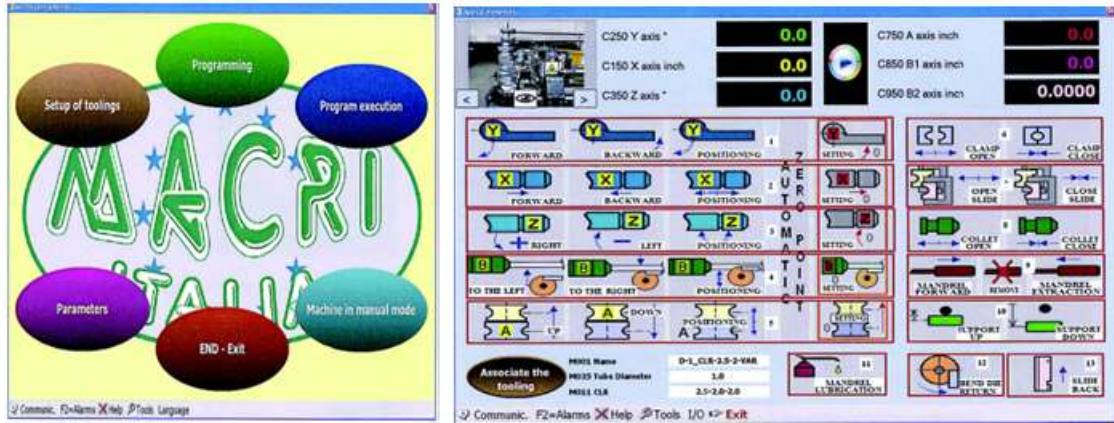


FEATURES	U.M.	PROVAR 6
Y Max. bending speed	°/1"	80
Y Tolerance	+/- °	0.1
X Max. traverse speed	mm 1"	650
X Tolerance	+/- mm	0.1
Z Max. gripper rotation speed	°/1"	360
Z Tolerance	+/- °	0.1
B1 Max. speed	mt/1"	12
B1 Tolerance	+/- mm	0.1
B2 Max. speed	mt/1"	12
B2 Tolerance	+/- mm	0.1
A Max. speed	mt/1"	2
A Tolerance	+/- mm	0.1
Weight	+/- Kg	5000

BENDING CAPACITIES	U.M.	PROVAR 6
Round tube R=42 Kg/mm ²	mm	65x4
Variable curve R=42 Kg/mm ² RM min 10 D	mm	60x2
Round stainless steel tube	mm	60x3
Round tube Alum. Brass Copper Alloys	mm	65x5
Square tube R=42 Kg/mm ²	mm	50x50x2
Rect. tube bent easy way	mm	30x60x2
Rect. tube bent hard way	mm	60x55x2
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Min. R.I. with normal axle	mm	≥45
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TUBE BENDING MACHINES SOFTWARE

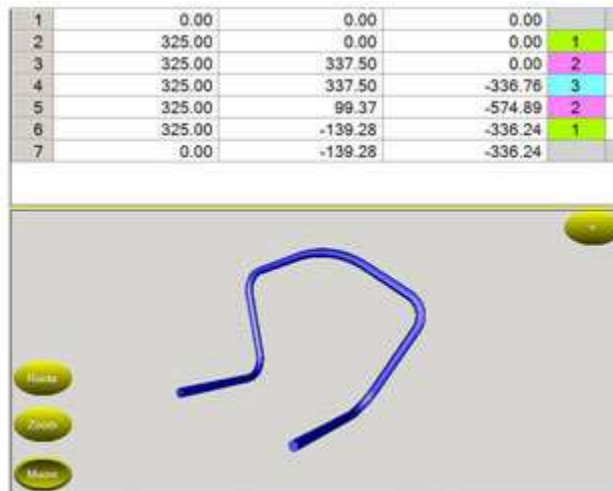


Exclusive software for the management of tube bender machines with an extremely easy and user-friendly graphic, three-dimensional interface.

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 exclusive software 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

