

## Tube bending machine

### Provar 6 Axis

#### SERIES 90

The PROVAR 6 Axis Series 90 is a fully automatic, 3 axis tube bending machine: bending (Y axis), advancement (X axis) and rotation (Z axis). The PROFAST Series 90 can bend tubes up to 90 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 90 can bend tubes up to 90 mm in diameter and has two levels of equipment per fixed and variable radius or two different fixed radii.

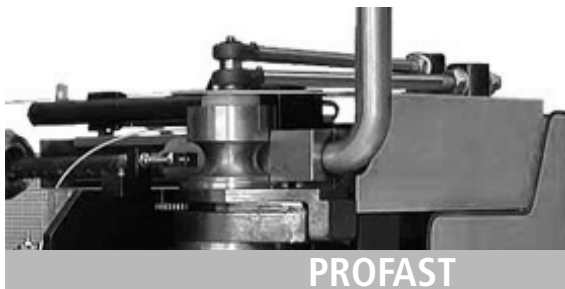
The following are fitted as standard:

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

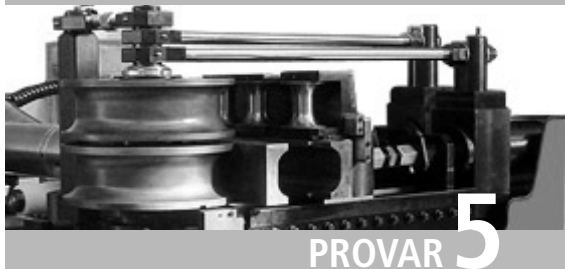
## SERIE 90



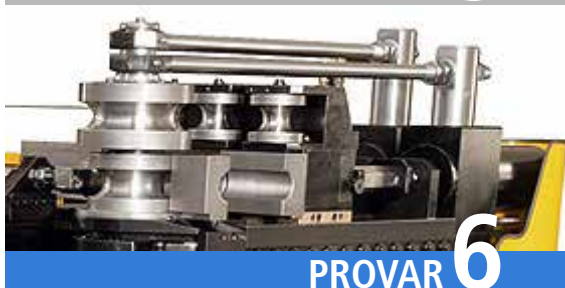
EURO



PROFAST

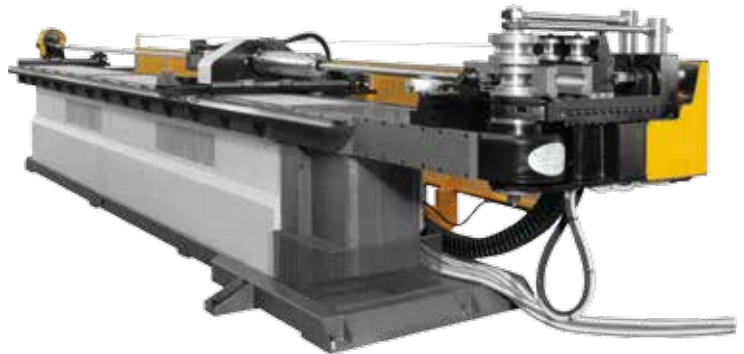


PROVAR 5



PROVAR 6

## DATA SHEET - PROVAR 6



FEATURES	U.M.	PROFAST
Y Max. bending speed	°/1"	45
Y Tolerance	+/- °	0.1
X Max. traverse speed	mm 1"	650
X Tolerance	+/- mm	0.1
Z Max. gripper rotation speed	°/1"	180
Z Tolerance	+/- °	0.1
B1 Max. speed	mt/1"	6
B1 Tolerance	+/- mm	0.1
B2 Max. speed	mt/1"	6
B2 Tolerance	+/- mm	0.1
A Max. speed	mt/1"	1.5
A Tolerance	+/- mm	0.1
Weight	+/- Kg	6500

BENDING CAPACITIES	U.M.	PROFAST
Round tube R=42 Kg/mm <sup>2</sup>	mm	90x7
Variable curve R=42 Kg/mm <sup>2</sup> RM min 10 D	mm	80x2
Round stainless steel tube	mm	90x5
Round tube Alum. Brass Copper Alloys	mm	90x10
Square tube R=42 Kg/mm <sup>2</sup>	mm	60x60x2
Rect. tube bent easy way	mm	40x80x2
Rect. tube bent hard way	mm	80x50x2
Round bar R=42 Kg/mm <sup>2</sup>	mm	50
Square solid R=42 Kg/mm <sup>2</sup>	mm	40x40
Min. R.I. with normal axle	mm	≥50
Min R.I. special	mm	≤50
Max. R.M. with rolls	mm	380
Mandrel extraction stroke	mm	100
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.