

## SINGLE HEAD CNC BENDING MACHINE



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The machine is suitable for little lots of spare parts production.

Its flexibility allows to complete bending programs up to the final bends which, usually, is not possible with conventional machines.

The PCI permit to control all the functions of the machine and a quickly programming with all the information required for the bending.

It is possible to bend 4 elements at a time on plane or 1 element with the rotation of the element.

Quickly system of changing the vice from fix to rotating.

Centralizing system with flexible cables.

Reading system of real length of the elements.

The software of the machine can be run in a normal PC so that the programmer can prepare the bending program into his office.

The main parts are:

- Working bench on stainless steel
- Movable vice fixed on ball-screw wagon
- Quickly manual set-up of the fix roll
- Hydraulic fix vice with escaping system for bending nearest to the top end.
- Centralizing system escaping from the working plane.
- Reading system of the length situated on a CNC belt wagon.
- Complete diagnostic vision of the machine with signalisation of the faults on the 10.4" video LCD.
- Visualisation of all the parameters, timers, counter.

### MAIN TECHNICAL CHARACTERISTICS:

Working elements per cycle		pcs	4- $\phi$ 6-6.5
		pcs	2- $\phi$ 8-8.5
		pcs	1- $\phi$ 10-12
Diameter of annealed elements		mm	6-12
Diameter tolerance		mm	+0.1
Minimum length of the elements	With fix reference	mm	200
Minimum length of the elements	With centering	mm	250
Minimum length the elements	With rotating vice	mm	500
Maximum length of the elements		mm	3000
Maximum length of the terminal pin		mm	30
Maximum bending speed		$^{\circ}$ /sec	400
Estimate medium time for 180 $^{\circ}$ bends	Bend + return stroke	sec	1.8
Estimate medium time for 90 $^{\circ}$ bends	Bend + return stroke	sec	1.2
Maximum speed of carriage vice		mm/s	1200



Maximum speed of rotating vice		°/sec	1.5
Medium measuring time		sec	2.5
Medium time for changing rolls		min	3
Medium time for changing code on bending		min	3
Maximum bends number x cycle			100
Maximum diameter of central roll		mm	70
Minimum diameter of central roll		mm	16
Minimum length of the last straight part of the el.	With normal vice	mm	50
Minimum length of the last straight part of the el.	With rotating vice	mm	50
Electric supply		V	3x400
Frequency		Hz	50
Pneumatic supply		Bar	6
Electrical power installed		Kw	4
Overall dimensions		Mt	4.5x2x2H
Weight		Kg.	600

