

The Simasv hydraulic horizontal bending machines are equipped with hydraulic cylinders located below the table providing an unencumbered working area. This is of particular benefit compared with traditional bending machines and pressbrakes as enclosed bends can be completed without colliding with the machine frame. Available with capacities from 22 tonnes up to 100 tonnes and with a large range of tooling, these machines have proved capable of performing a whole variety of operations. The front hand wheel provides micro adjustment to the bending stroke, while the second hand wheel adjusts the return stroke to the minimum sufficient to reload the material, greatly reducing cycle time. Simasv machines can be automated with the optional one axis NC control for the bending angle, or in a two axis version to additionally control the length stop position.

## Machine Features

- Versatile machine able to easily carry out many functions
- Quiet hydraulic system
- Rapid change tool posts
- Stroke regulation by means of extremely sensitive electric limit switches and graduated rule
- Ideal for single or production applications
- One or two axis programmers to automate production

## Optional Equipment

- Large range of bending punches of varying angle and radius in either 120mm high or 160mm height
- Large range of bending dies of various vee sizes in either 120mm or 160mm height.
- Bending tool posts enabling bending of enclosed shapes
- Large range of special application tooling.
- Feed stroke decimal indicator providing micro adjustment to 0.1mm



T40 1-AXIS NC  
 PICTURED WITH  
 BENDING TOOLS



T22

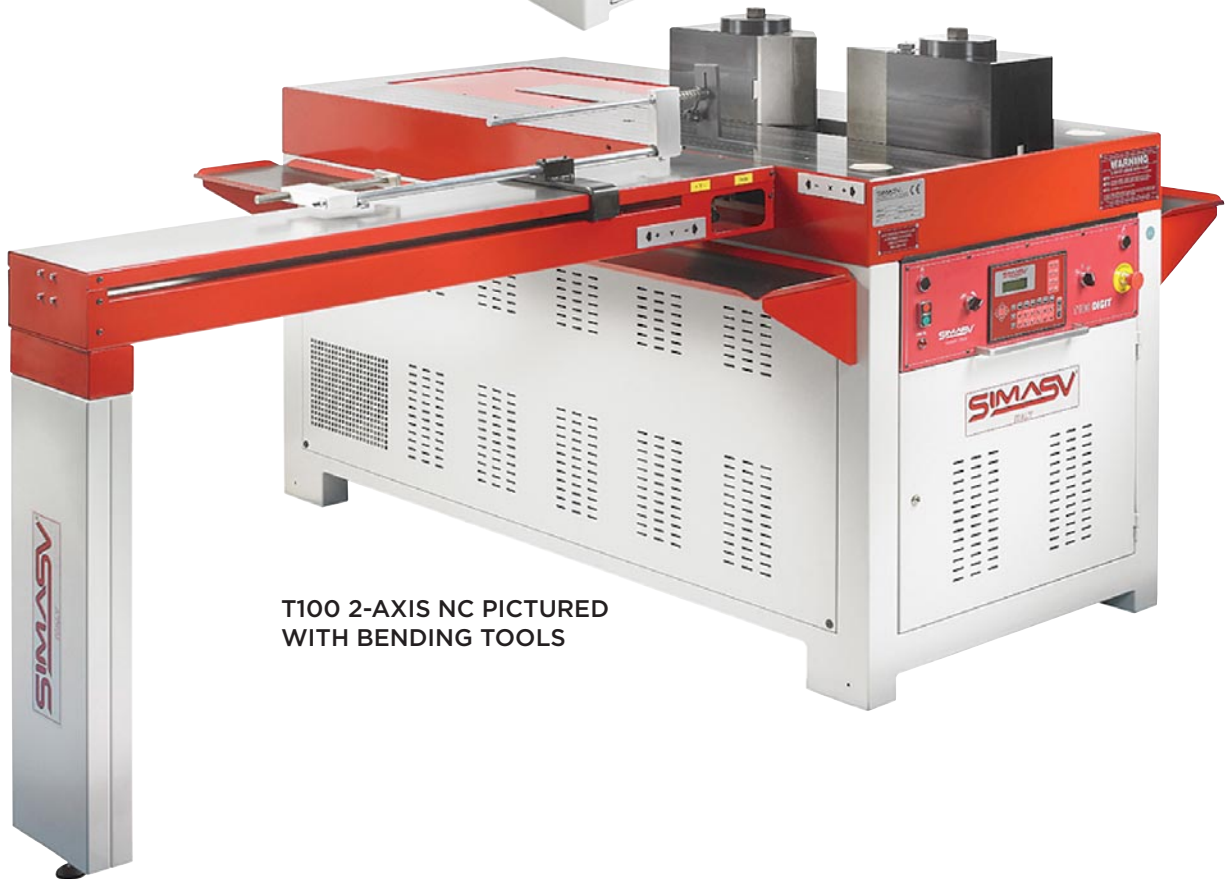


OPTIONAL FEED  
 STROKE DECIMAL  
 INDICATOR. PROVIDES  
 MICRO STROKE  
 ADJUSTMENT TO  
 0.1mm.

Metalworking  
Solutions  
Supplied

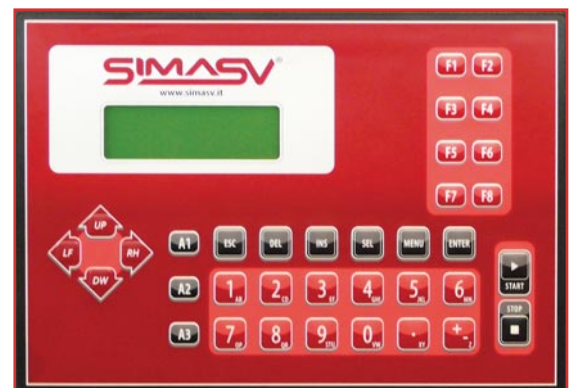


**T40 2-AXIS NC PICTURED  
WITH BENDING TOOLS**

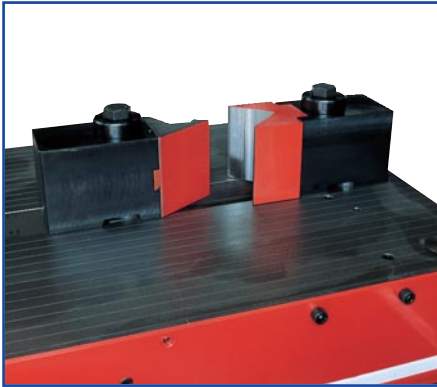


**T100 2-AXIS NC PICTURED  
WITH BENDING TOOLS**

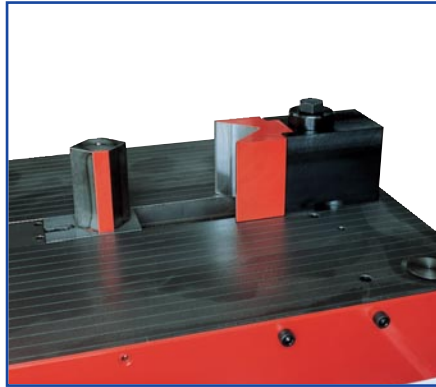
With the Simasv NC controllers, the bending angle is programmed using the X axis and includes a provision to adjust for 'spring back' once a test bend has been carried out. All programs can be stored into the controller with a job name or number. The two axis model has the added benefit of a Y axis NC length stop which automatically feeds and retracts in conjunction with the X axis. Therefore multi bend operations can be carried out with both axis stored in one program.







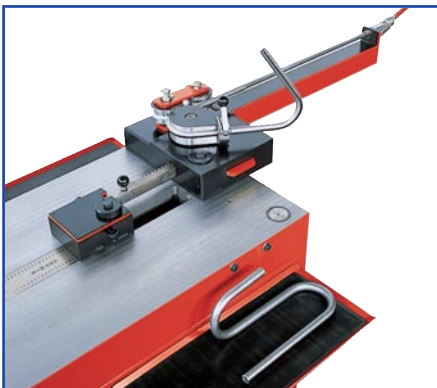
**FLAT BAR BENDING**



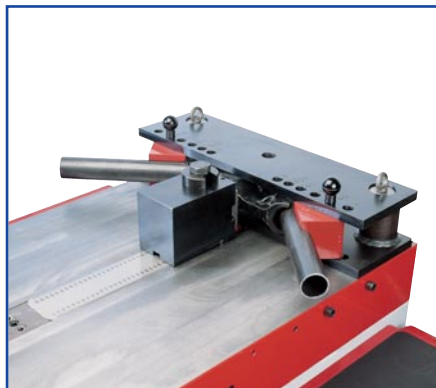
**BENDING FOR ENCLOSED SHAPES**



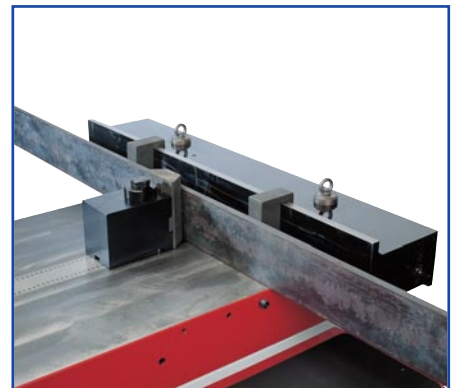
**FLAT BAR BENDING ON EDGE**



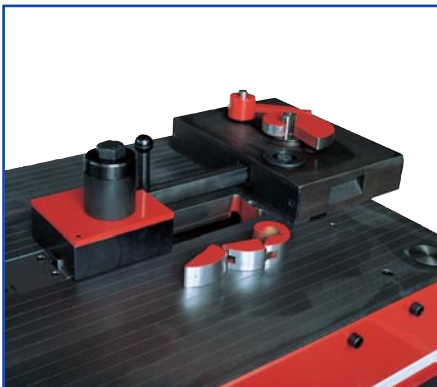
**ROTARY TUBE BENDING**



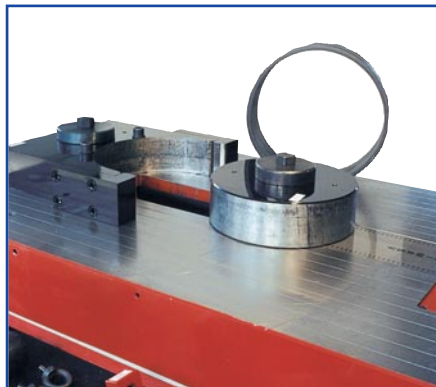
**HEAVY WALL TUBE BENDING**



**BAR STRAIGHTENING**



**SCROLL FORMING**



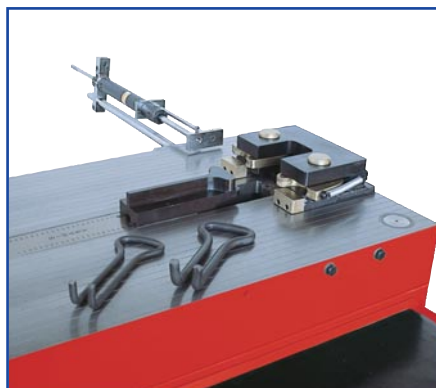
**CIRCLE FORMING**



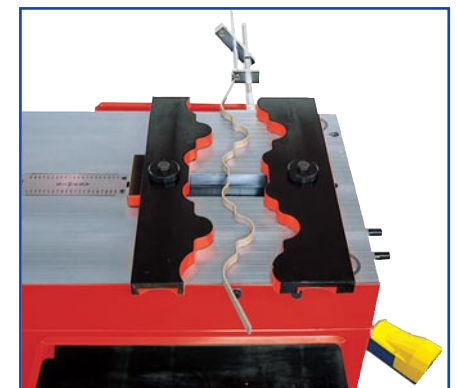
**PUNCHING**



**SHEARING**



**HOOK FORMING**







**PROFILE FORMING**



FLAT BAR BENDING ON 2-AXIS NC MODEL

BENDING SAMPLES

## CAPACITIES

MODEL		T22	T40	T70	T100
Rated Capacity	Tonne	22	40	70	100
Max flat bar bending	mm	120 x 15	160 x 20	200 x 28	230 x 35
Max flat bar bending on edge	mm	8 x 100	15 x 100	15 x 15	25 x 150
Max tube bending	mm	48.3	60.3	76.1	88.9
Max height straightening	mm	150	150	200	250
Punching	mm	30 x 4.5	30 x 9	35 x 12	30 x 24
Bar Shearing	mm	10 x 100	15 x 120	15 x 160	20 x 160
Section Shearing	 mm	80 x 80 x 2	80 x 80 x 2	120 x 120 x 5	120 x 120 x 5
	 mm	60 x 80 x 2	60 x 80 x 2	120 x 180 x 5	120 x 180 x 5
	 mm	80 x 80 x 4	80 x 80 x 4	120 x 120 x 5	120 x 120 x 5
	 mm	80 x 40 x 4	80 x 40 x 4	120 x 60 x 5	120 x 60 x 5

## TECHNICAL SPECIFICATIONS

MODEL STOCK CODE		T22 21116	T40 21119	T70 21131	T100 21121
Table size	mm	630 x 1100	625 x 1100	820 x 1720	880 x 1900
Table height	mm	955	955	980	1040
Stroke	mm	200	250	330	330
Approach speed	mm/min	1750	1750	1780	1780
Return speed	mm/min	1980	1980	2218	2051
Min distance from ram to post	mm	120	120	194	242
Max distance from ram to post	mm	320	370	524	572
Motor	kW	1.5	3	5.5	5.5
Length	mm	1150	1150	1860	2000
Width	mm	630	1200	1380	1440
Height	mm	1050	1110	1160	1275
Weight	kg	630	900	1910	2500