

**N NARGESA®**

## SECTION BENDING MACHINES

# MC650



**+ than 40 years**  
**manufacturing industrial machinery**

## SECTION BENDING MACHINES

The pipe and section bending machines Nargesa with two or three traction rollers, either hydraulic or mechanic system are ideal for making all kinds of bends, curves, shapes on different pipes and profiles no matter the material to be use, aluminium, stainless steel, mild steel, copper, galvanized pipe for making staircases, tube spirals, pipe flanges, greenhouses, railings, tables, chairs, doors and even windows. Hydraulic section bending machines are accurate when making bends on T-profiles, angles, U-profiles, round pipes and bars, square bars and pipes, flat bars. It is the kind of industrial machinery that will allow the user to have countless bending possibilities.

### GET A QUOTE

Please complete the following form. We'll contact you in less than 24 hours.  
*Business days.*

### HOW IT WORKS VIDEO

Video on how the machine works.



Follow us on



## MC150B

- > Two drive rollers.
- > Diameter of axes: 40 mm.
- > Useful axes length: 74 mm.
- > Center distance between lower axes: 230 mm.
- > Maximum capacity for bending round pipe: 2 inches or 50 mm.



## MC200

- > Two drive rollers.
- > Diameter of axes: 40 mm.
- > Useful axes length: 74 mm.
- > Center distance between lower axes: 286 mm.
- > Maximum capacity for bending round pipe: 2 1/2 inches or 63.5 mm.



## MC200H

- > Two drive rollers.
- > Diameter of axes: 40 mm.
- > Useful axes length: 74 mm.
- > Center distance between lower axes: 286 mm.
- > Maximum capacity for bending round pipe: 3 inches or 76.2 mm.



## MC400

- > Three drive rollers.
- > Diameter of axes: 40 mm.
- > Useful axes length: 80 mm.
- > Maximum capacity for bending round pipe: 2 1/2 inches or 63.5 mm.
- > Independent bending regulation of the lower rollers.



## MC650

- > Three drive rollers.
- > Diameter of axes: Inferiores 65 mm / Superior 80 mm.
- > Useful axes length: 130 mm.
- > Center distance between lower axes: 202 mm.
- > Maximum capacity for bending round pipe: 4 inches or 101,6 mm.
- > Independent bending regulation of the lower rollers.

# BENDING CAPACITY

Sizes indicated in the following chart are estimated, they are closely related to pipe harness and quality.



	MC150B		MC200		MC200H		MC400		MC650	
Section	Size	Min. Radius	Size	Min. Radius	Size	Min. Radius	Size	Min. Radius	Size	Min. Radius
	50x10	300	50x10	300	50x10	250	60x10	200	100x20 80x20	1250 450
	60x20	200	80x20	150	80x20	150	80x20	150	100x25 80x20	350 200
	25x25	200	30x30	200	30x30	150	30x30	150	45x45 25x25	300 200
	50x50x3	700	50x50x3	600	50x50x3	600	50x50x3	450	70x70x4 40x40x3	750 350
	40	200	40	200	40	150	40	200	80* 70 40	500 400 150
	40	250	40	250	40	200	40	250	80* 60 40	500 400 150
	50	200	60	300	60	225	60	225	120* 100* 80	600 600 400
	50	250	60	300	60	225	60	225	120* 100* 80	700 700 400
	40	500	40	420	40	200	40	300	70 40	600 250
	25	180	30	150	30	150	30	150	50 25	300 175
	40x2*	300	40x2*	250	40x2*	200	40x2*	200	88,9x4*	700
	50,8x3*	600	63,5x3*	500	63,5x3*	450	76,2x2*	500	101,6x3*	700
	= 2"x3*	600	= 2"1/2x3*	500	= 2"1/2x3*	450	= 3"x2*	500	= 4"x3*	700

\* Optional rollers

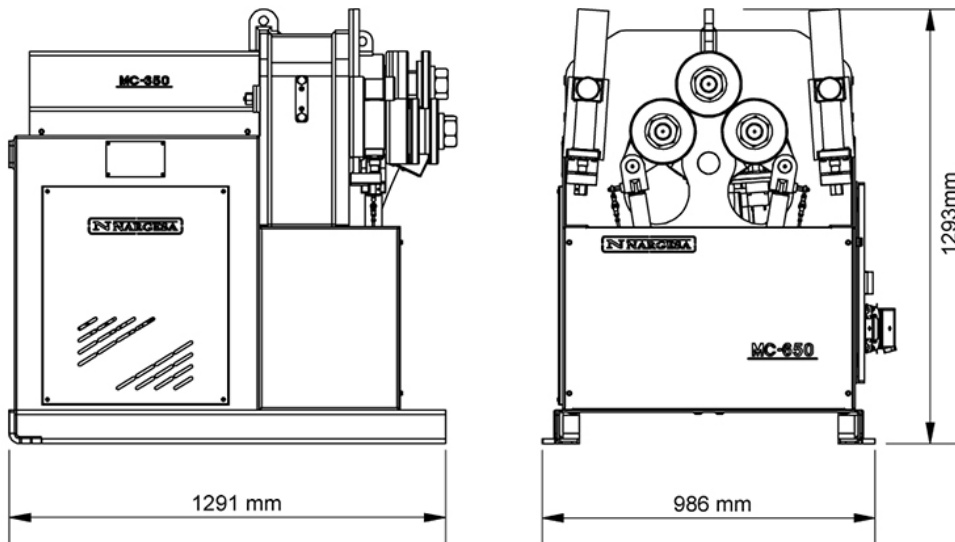
# TECHNICAL FEATURES

The MC650 NARGESA Section and pipe bending machine is ideal for manufacturing flanges, greenhouses, railings, large structures for construction and all types of circular figures in different small and large sections and tubes. Maximum capacity for bending round pipe: 4" inches or 101,6 mm.

- > Three traction rollers, ideal and essential to bend round pipe, with smooth surface not to get the pipe or profile damaged.
- > Steel treated and rectified axis.
- > Improved energy efficiency.
- > Electro-hydraulic operation.
- > Axis diameter: Lower 65 mm / Higher 80 mm.
- > Useful length of axis: 130 mm.
- > Diameter of rollers: 202 mm.
- > Max. Bending capacity in round pipes: 4 inches or 101,6 mm.
- > Bending regulation apart from the lower rollers which permits to make bending operations in smaller diameters and to give better use to the material than in other bending machines.
- > Visual display of dimensions.
- > Bending limits programmable with potentiometers.
- > Bender operations control desk supplied as standard with the machine.
- > It's equipped with 9 standard rollers by means of which you can make all kinds of profiles. Square pipe, rectangular, solid square bar, round and rectangular, U profile, T profile, angle, flat bar, edge flat bar... Optional rollers can be supplied for round pipe or tube.
- > Horizontal and vertical working position, without needing to fit special accessories.
- > Engine power: 3 KW / 4 CV.
- > Hydraulic motor power: 0.75 KW / 1 CV.
- > 3-phased tension: 230/400 V.
- > Rollers speed: 5 R.P.M.

*\* All our products are manufactured in our facilities in Spain. The hydraulic and electrical components are all standard from the best leading European trademarks, with technical assistance all over the world: Rexroth, Bosch, Roquet, Schneider Electric, LG, Telemecanique, Pizzato etc...*

# OUTSIDE DIMENSIONS



# PACKAGING CHARACTERISTICS

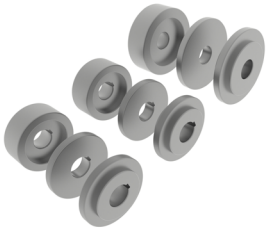
- Tariff Item Code: 84622991
- Lower bench palletized to easily transport the machine to the workplace or store it in case of lacking space.
- The machine is shipped fully assembled.
- Pallet made of steel and 3 layer cardboard box suitable for seafreight.
- Optional: Fumigated wooden box NIMF15.

## MC650

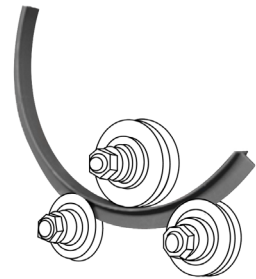
Width	1370 mm
Depth	1040 mm
Height	2020 mm.
Volume	2,87 m <sup>3</sup>
Net Weight	1175 Kg.
Gross Weight	1215 Kg.

# INCLUDED ACCESSORIES FOR SECTION BENDING MACHINE

## Standard rollers MC650

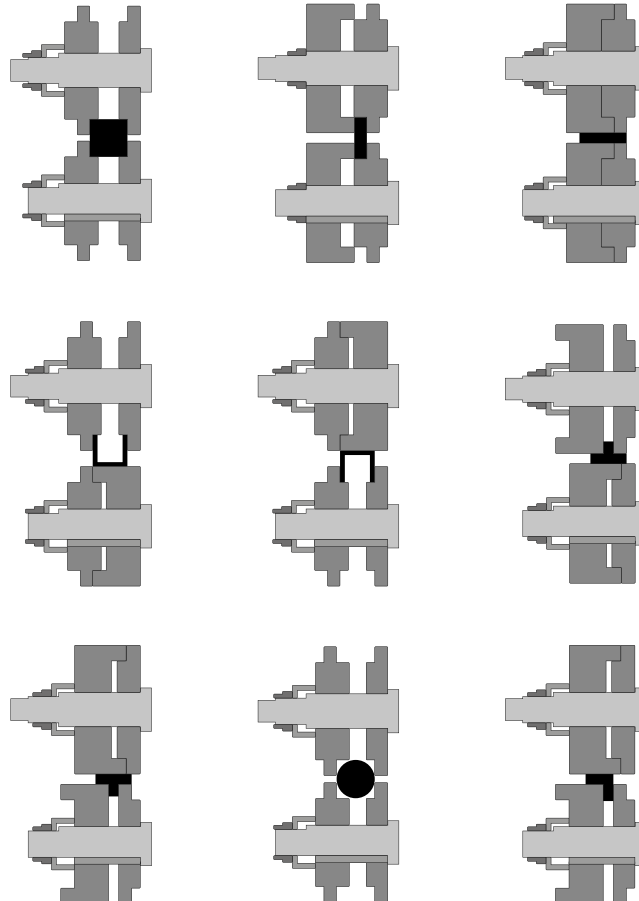


It's equipped with 9 standard pieces, by means of which the user can work all kinds of profiles. Square, rectangular pipe, solid round and square bars. U Profile, T profile, angle, flat bar, edged flat bar... Adjustable rollers, by washers with the size of profile or pipe which allows us to make bending to different pipe or profile sizes.



*Steel rollers F1140 treated and rectified.*

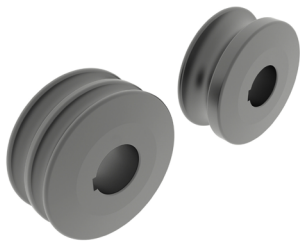
Assembling of the rollers





# OPTIONAL ACCESSORIES

## Treated steel rollers



Rollers made of Steel F-1140 and treated to 62 Rc. Suitable for bending all kind of round steel or stainless steel pipes.

*Always clean up the rollers well before using stainless steel not to get the pipe contaminated.*



### For tube

mm	Weight	ISO mm	Weight	Inches Whitwort	Weight
(25+30)*	45,30 Kg	(17,2+21,3)*	49,50 Kg	(1/2"+1"1/4)* = (12,700 + 31,751 mm)	47,25 Kg
(20+35)*	44,80 Kg	(33,7+26,9)*	43,75 Kg	(1"+3/4")* = (25,401 + 19,051 mm)	48,00 Kg
40	45,30 Kg	42,4	44,40 Kg	1"1/2 = 38,101 mm	45,90 Kg
50	40,80 Kg	48,3	41,60 Kg	2" = 50,802 mm	40,70 Kg
60	35,70 Kg	60,3	35,50 Kg	2"1/2 = 63,502 mm	33,70 Kg
70	64,70 Kg	76,1	60,20 Kg	3" = 76,2 mm	60,20 Kg
80	57,40 Kg	88,9	50,35 Kg	3" 1/2 = 88,9 mm	50,35 Kg
90	49,50 Kg	101,6	39,50 Kg	4" = 101,6 mm	39,50 Kg
100	41,00 Kg				

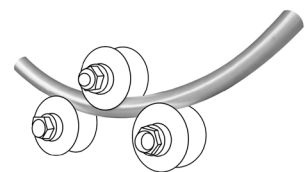
\* When the tube measurements are small, two measurements are added on the same roller.

## Sustarin Rollers



Rollers made of Sustarin to bend round stainless steel pipes, aluminium and delicate materials with thickness not bigger than 2.5mm.

*Sustarin rollers do not damage nor get the pipe contaminated.*



### For tube

mm	Weight	ISO mm	Weight	Inches Whitwort	Weight
(25+30)*	9,35 Kg	(17,2+21,3)*	10,10 Kg	(1/2"+1"1/4)* = (12,700 + 31,751 mm)	9,65 Kg
(20+35)*	9,25 Kg	(33,7+26,9)*	9,00 Kg	(1"+3/4")* = (25,401 + 19,051 mm)	9,80 Kg
40	9,30 Kg	42,4	9,15 Kg	1"1/2 = 38,101 mm	9,40 Kg
50	8,50 Kg	48,3	8,65 Kg	2" = 50,802 mm	8,45 Kg
60	7,60 Kg	60,3	7,55 Kg	2"1/2 = 63,502 mm	7,25 Kg
70	6,50 Kg				
80	11,80 Kg	76,1	12,30 Kg	3" = 76,2 mm	12,30 Kg
90	10,35 Kg	88,9	10,50 Kg	3" 1/2 = 88,9 mm	10,50 Kg
100	8,80 Kg	101,6	8,50 Kg	4" = 101,6 mm	8,50 Kg

\* When the tube measurements are small, two measurements are added on the same roller.



# OUR RANGE OF MACHINERY



IRON WORKERS



SECTION BENDING  
MACHINES



NON-MANDREL PIPE  
BENDER



HORIZONTAL PRESS  
BRAKES



TWISTING/SCROLL  
BENDING MACHINES



HYDRAULIC PRESS  
BRAKES



HYDRAULIC SHEAR  
MACHINES



GAS FORGES



IRON EMBOSsing  
MACHINES



END WROUGHT IRON  
MACHINES



BROACHING MACHINES



POWER HAMMERS



PRESSES FOR LOCKS

## WARRANTY

Nargesa machines have 3 years warranty provided that the customer registers it in our website. Otherwise it would be only one year warranty. This one encloses any manufacturing default all along these 3 years for components. Any misuse is excluded from this condition. Labor, back and forth shipping and any eventual repair, are not included in this warranty.

Partner companies.



Airpharm

## SHIPMENT EVERYWHERE

Nargesa will arrange transport up to final destination, whenever the customers asks for so. There is also the possibility for the customer to arrange the shipment himself with his own agency.

## TECHNICAL ASSISTANCE

All our customers have access to technical support quickly and efficiently.

90% of incidences are solved out on the phone, mail, Skype or video-conferencing in less than 24hours. In case of needing presencial technical assistance, we may as well send a technician to the customer's facilities.

Follow us on

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### PRADA NARGESA, S.L.

Ctra. De Garrigàs a Sant Miquel s/n  
17476 Palau de Santa Eulalia (Girona) Spain  
Tel. +34 972 568 085

[www.nargesa.com](http://www.nargesa.com)

[nargesa@nargesa.com](mailto:nargesa@nargesa.com)



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This information might undergo changes