

## SECTION BENDING MACHINES

# MC400



**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

## OUR RANGE OF BENDING MACHINES



### 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* 50,8x3* = 2"x3*	300 600 600	40x2* 63,5x3* = 2 1/2"x3*	250 500 500	40x2* 76,2x2* = 2 1/2"x3*	200 500 450	40x2* 63,5x3* = 3"x2*	200 450 500	88,9x4* 101,6x3* = 4"x3*	700 700 700

\* Optional rollers

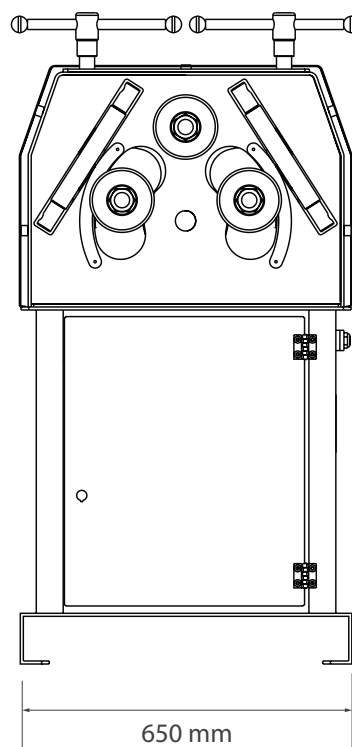
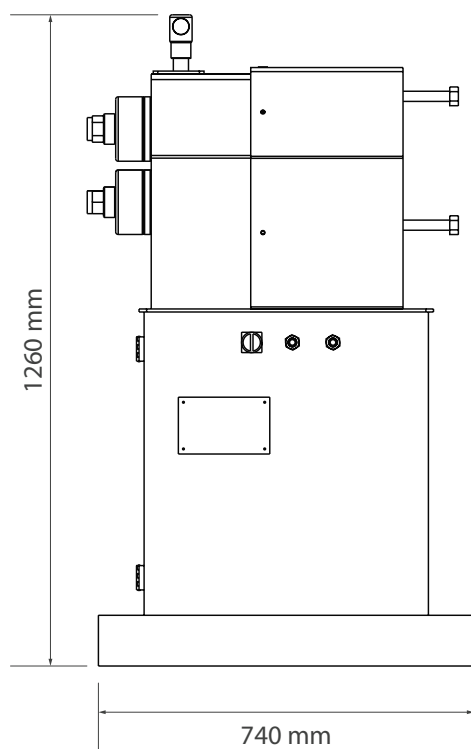
# TECHNICAL FEATURES

Bending Machine MC400 NARGESA is made of steel, it has got three traction rollers, pinion transmissions, treated and rectified axis. Maximum capacity for bending round pipe: 2" 1/2 inches or 63,5 mm.

- > 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 inch or 63.5 mm.
- > Bending regulation by means of the upper axis which permits to make bending operations in big pipes and profiles diameters without any distortion.
- > Diameter of rollers: 130 mm.
- > It's equipped with 9 standard rollers and washers by means of which you can make all kinds of profiles.
- > Millimeter scales to know the rollers position.
- > Vertical and Horizontal working position in the same table.
- > Side corrector rollers to rule the bending operation and make spiral bending.
- > Motor Power: 1,1 KW / 1,5 HP.
- > Voltage supply: 3 phased 230/400 V.
- > For single phased machines, request quotation.
- > Rollers speed: 7 RPM.

*\* 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

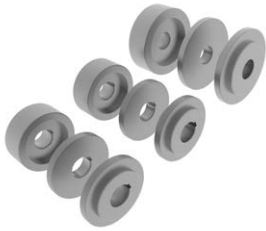
- Tariff Item Code: 84622998
- Lower bench palletized to easily transport the machine to the workplace or store it in case of lacking space.
- The machine is shipped fully assembled.
- Pallet made of steel and 3 layer cardboard box suitable for seafreight.
- Optional: Fumigated wooden box NIMF15.

### MC400

Width	650 mm
Depth	740 mm
Height	1360 mm.
Volume	0,70 m <sup>3</sup>
Net Weight	365 Kg.
Gross Weight	380 Kg.

# STANDARD ACCESSORIES DELIVERED WITH THE MACHINE

## Standard rollers MC400

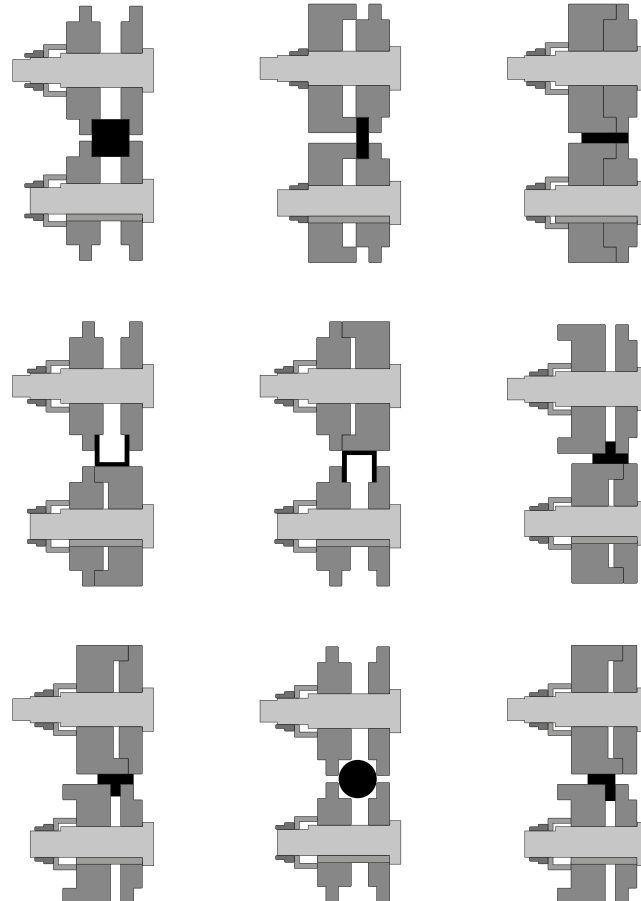


It's equipped with 9 standard pieces, by means of which the user can work all kinds of profiles. Square, rectangular pipe, solid round and square bars. U Profile, T profile, angle, flat bar, edged flat bar... Adjustable rollers, by washers with the size of profile or pipe which allows us to make bending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



*Steel rollers F1140 treated and rectified.*

Assembling of the rollers



# OPTIONAL ACCESSORIES

## High precision digital radius gauge



REF: 140-MED08-00001

The **High precision digital radius gauge** allows the user to have a direct and immediate reading of inner and outer radius in a range from 55 to 11.250 millimeters or from 2" to 443" inches.

The High precision digital radius gauge measures radii in spherical objects such as tubes, profiles and pipes in a quick and accurate way. It is really fast and easy to use! It indicates the inner or outer radius of the part we are bending ***without removing it from the machine and without needing to previously draw and cut a guide template.***

This Digital arc meter allows the direct and immediate reading of the values of the inner or outer radius in a wide range of bends.

- > **Comfort:** No need to prepare and cut a template to know the radius of a bend, it is not necessary to remove the part from the machine to measure it either. The digital radius gauge makes the job quicker and easier.
- > **Easy to use:** Its use is simple and the measurement process is very fast. We only have to place the digital radius gauge on the internal or external part of the curve and it will automatically show the value.
- > **Multi-material:** This tool is suitable for any kind of solid and consistent materials like steel, wood or plastic shapes.
- > **High precision:** Its error tolerance over the radius is 0,01mm. Precision will depend on the surface quality of the material to measure.
- > **Application scope:** This digital radius gauge is supplied with three different high precision arc meters. The use of either one or other arch meter offers a measurement range swinging from 55 to 11.250 millimeters and from 2" to 443" inches.
- > **LCD digital screen:** Comfortable reading of all data and low power consumption.
- > **Practical:** It is small and light, we can easily use it for different measurements. It is comfortable, reliable and long lasting.
- > **Storage:** We deliver it inside a stainless briefcase, with an inner foam protection to keep it safe and protect the arc meter when it is not in use. It is comfortable to carry and shock-resistant.
- > **Two units of measure:** We can select either millimeters or inches just by pressing a button.
- > **Perfect for wide radii:** Unlike other manufacturers, the High Precision Arc Meter Nargesa can measure radii up to 12m with maximum precision. For bigger radii, please consult the manufacturer.
- > **Ideal for smaller radii:** The great touch sensor length allows its use even when the inner radius to measure is very tiny.

### TECHNICAL SPECIFICATIONS

- > Measurement scope: From 55 to 11.250 millimeters or from 2" to 443" Inches.
- > Error tolerance over the touch sensor:  $\Delta L = 0.02\text{mm}$
- > Error tolerance over the radius:  $\Delta R = (0.01 * R)\text{mm}$
- > Power supply: 3V CR2032 Lithium battery
- > Working temperature:  $0 \pm 40^\circ\text{C}$
- > Storage and transport temperature:  $-20^\circ\text{C} - 60^\circ\text{C}$
- > Relative humidity:  $\approx 80\%$



## Arc meters supplied with the High precision digital radius gauge

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### 100 Measurement arc

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The 100mm High precision arc meter is supplied along with the High precision digital radius indicator. This tool is attached to the arc meter to measure internal or external radii, amongst the following ranges:

**Minimum radius:** 55mm or 2"

**Maximum radius:** 625mm or 25"

### 200 Measurement arc

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The 200mm High precision arc meter is supplied along with the High precision digital radius indicator. This tool is attached to the arc meter to measure internal or external radii, amongst the following ranges:

**Minimum radius:** 125mm or 5"

**Maximum radius:** 2.500mm or 99"

### 300 Measurement arc

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The 300mm High precision arc meter is supplied along with the High precision digital radius indicator. This tool is attached to the arc meter to measure internal or external radii, amongst the following ranges:

**Minimum radius:** 475mm or 18"

**Maximum radius:** 11.250mm or 443"

## 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 Whitworth	Weight
(25+30)*	17,00 Kg.	(21,3+26,9)*	17,70 Kg.	(1/2"+1"1/4)* = (12,700 + 31,751 mm)	18,00 Kg.
(20+35)*	16,50 Kg.	(17,2+33,7)*	17,00 Kg.	(1"+3/4")* = (25,401 + 19,051 mm)	18,50 Kg.
40	16,60 Kg.	42,4	16,00 Kg.	1"1/2 = 38,101 mm	17,25 Kg.
50	14,25 Kg.	48,3	14,40 Kg.	2" = 50,802 mm	13,60 Kg.
60	11,10 Kg.	60,3	11,15 Kg.	2"1/2 = 63,502 mm	9,75 Kg.
70		76,1		3" = 76,2 mm	

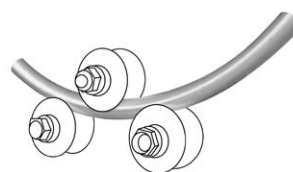
\* When the tube measurements are small, two measurements are added on the same roller.

## 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 in mm

For tube in mm	Weight
(25+30) - (20+35) - 33 - 40 - 43 - 50 - 50,8 - 60	2,5 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

Narges 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.



## SHIPMENT EVERYWHERE

Narges 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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This information might undergo changes