



## SECTION BENDING MACHINES

# MC150B



**50** 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...

## 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.

## SOME OF OUR REMARKABLE CUSTOMERS



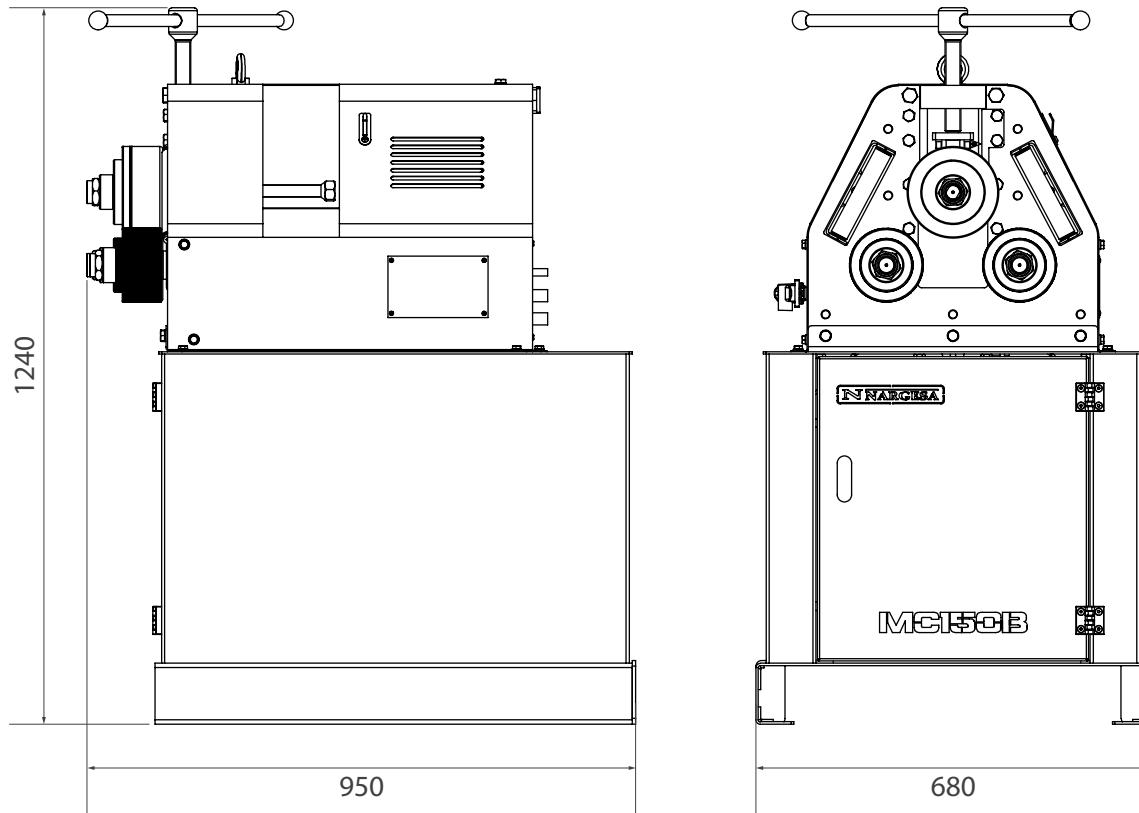
# TECHNICAL FEATURES

The pipes and profiles pyramidal bending machine Nargesa MC150B is made of machined steel, with two traction rollers, hardened gear transmission. Maximum capacity for bending round pipe: 2 inches or 50 mm.

- > 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.
- > Bending regulation by the upper shaft, which allows to curve tube and profile dimensions and profiles of large diameter without deformation.
- > We supply the section bending machine MC150B with 9 rollers and standard washers, that can be combined and make all kinds of profiles.
- > Millimeter scale for bending in the upper shaft.
- > Two working positions, horizontal and vertical in the same workbench.
- > Correction rollers on the sides to control the bending deformation when making spirals and spiral staircases.
- > Base cupboard for rollers and accessories.
- > Motor Power: 0.75 KW / 1 HP.
- > Voltage supply: Single phase 230 V.
- > For other voltages, contact the manufacturer.
- > Rollers speed: 6 RPM

*\*All 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: 84622990
- 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.

## MC150B

Width	700 mm
Depth	950 mm
Height	1250 mm
Volume	0,83 m <sup>3</sup>
Net Weight	270 Kg.
Gross Weight	280 Kg.

# BENDING CAPACITY

The dimensions shown in the following table are provided for guidance only; they are directly related to the hardness and quality of the pipe or profile.



MC150B			MC200			MC400			MC200H	
Profile	Dim.	Min. radius	Dim.	Min. radius	Dim.	Min. radius	Dim.	Min. radius	Dim.	Min. radius
	50x10	300	50x10	300	50x10	250	60x10	200		
	60x20	200	80x20	150	80x20	150	80x20	150		
	25x25	200	30x30	200	30x30	150	30x30	150		
	50x50x3	700	50x50x3	600	50x50x3	600	50x50x3	450		
	40	200	40	200	40	150	40	200		
	40	250	40	250	40	200	40	250		
	40	300	40	300	40	250	40	250		
	50	200	60	300	60	225	60	225		
	50	250	60	300	60	225	60	225		
	40	500	40	420	40	200	40	300		
	25	180	30	150	30	150	30	150		
	50,8x3* =2'x3* 40x2*	600 600 300	63,5x3* =2'1/2x3* 40x2*	500 500 250	63,5x3* =2'1/2x3* 40x2*	450 450 200	63,5x3* 70x2* 40x2*	500 500 200		

\* Optional rollers


**MC550 · MC550NC · MC550CNC**
**MC650 · MC650NC · MC650CNC**

Profile	Dimensions	Min. radius	Dimensions	Min. radius
	60x15 60x8 50x15 50x10 40x8 30x5 25x5	400 200 350 175 150 110 105	100x15 80x20 60x15 50x15 20x10	1250 450 300 155 140
	100x20 80x20 80x15	250 200 180	120x20 100x25 80x20	250 350 200
	40x40 30x30 25x25 20x20 15x15	400 180 175 150 150	45x45 40x40 25x25 20x20	300 280 200 150
	60x60x3 50x50x3 35x35x3	800 600 200	70x70x4 60x60x3 40x40x3	750 750 300
	70x30x3 60x30x3 50x30x3	800 600 450		
	60x60x7 50x50x6 40x40x5	300 250 200	80* 70 60 40	500 400 200 150
	60x60x7 50x50x6 40x40x5	500 400 300	80* 60 40	500 400 150
	60x60x7 50x50x6 40x40x5	350 300 250	60x8 40x6	450 250
	40x20x5 60x30x6 80x45x6	160 200 400	120* 100* 80	600 600 350
	80x45x6 60x30x6 40x20x5	500 250 200	120* 100* 80	700 700 400
			70 40	600 250
	40 35 30 20	300 250 200 130	50 40 25	300 200 175
			101,6x3,5* (=4"x3) 100x3* 88,9x4* (=3"SCH) 35x2* 20x1,5*	500 500 700 120 115

\* Optional rollers

# STANDARD ACCESSORIES DELIVERED WITH THE MACHINE

## Standard rollers MC150B



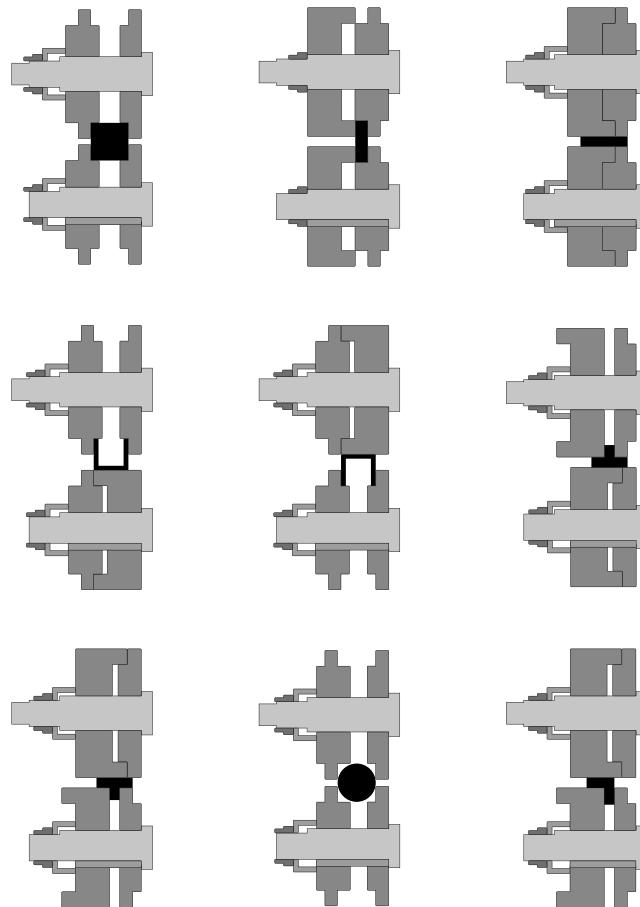
It's equipped with 9 standard pieces, by means of which the user can work all kinds of profiles. Square, rectangular pipe, solid round and square bars. U Profile, T profile, angle, flat bar, edged flat bar...

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: =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 · MC150B · MC200 · MC200H · MC400



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.*

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

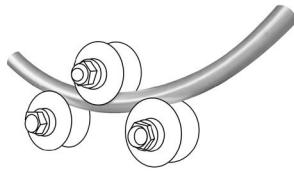


Tube size in mm		
Reference	Dimensions	Weight
140-08-01-RHT0007	(25 + 30)	17,00 Kg.
140-08-01-RHT0006	(20 + 35)	16,50 Kg.
140-08-01-RHT0001	40	16,60 Kg.
140-08-01-RHT0002	50	14,25 Kg.
140-08-01-RHT0003	60	11,10 Kg.
For Schedule pipe		
140-08-01-RHISOT0006	(3/4" + 1/2") = (26,9 + 21,3 mm)	17,70 Kg.
140-08-01-RHISOT0007	(1" + 3/8") = (33,7 + 17,2 mm)	17,00 Kg.
140-08-01-RHISOT0002	1" 1/4 = 42,4 mm	16,00 Kg.
140-08-01-RHISOT0003	1" 1/2 = 48,3 mm	14,40 Kg.
140-08-01-RHISOT0004	2" = 60,3 mm	11,15 Kg.
For inches pipe		
140-08-01-RHWT-00001	(1/2" + 1" 1/4) = (12,700 + 31,751 mm)	18,00 Kg.
140-08-01-RHWT-00002	(1" + 3/4") = (25,401 + 19,051 mm)	18,50 Kg.
140-08-01-RHWT-00003	1" 1/2 = 38,101 mm	17,25 Kg.
140-08-01-RHWT-00004	2" = 50,802 mm	13,60 Kg.
140-08-01-RHWT-00005	2" 1/2 = 63,502 mm	9,75 Kg.

## Sustarin Rollers · MC150B · MC200 · MC200H · MC400



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.*

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

Tube size in mm		
Reference	Dimensions	Weight
140-08-01-RI0007	(25 + 30)	1,40 Kg.
140-08-01-RI0001	(20 + 35)	1,40 Kg.
140-08-01-RI0010	33	1,50 Kg.
140-08-01-RI0004	40	1,40 Kg.
140-08-01-RI0003	43	1,30 Kg.
140-08-01-RI0006	50	1,20 KG.
140-08-01-RI0008	60	0,90 KG.
For inches pipe		
140-08-01-RIW-00001	$(1/2" + 1"1/4") = (12,700 + 31,751 \text{ mm})$	1,80 Kg.
140-08-01-RIW-00002	$(1" + 3/4") = (25,401 + 19,051 \text{ mm})$	1,50 Kg.
140-08-01-RIW-00003	$1"1/2 = 38,101 \text{ mm}$	1,40 Kg.
140-08-01-RIW-00004	$2" = 50,802 \text{ mm}$	1,20 Kg.
140-08-01-RIW-00005	$2"1/2 = 63,502 \text{ mm}$	0,90 Kg.

# 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

- > 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.



## 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.



## 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: 2" 1/2 inches or 70 mm.



## MC550

- > Three drive rollers.
- > Diameter of axes: 50 mm.
- > Useful axes length: 90 mm.
- > Max. capacity for bending round pipe: 3" inches (76,2 mm) or 80mm
- > Independent bending regulation of the lower rollers.



## MC650

- > Three drive rollers.
- > Diameter of axes: Lower 65 mm / Upper 80 mm.
- > Useful axes length: 130 mm.
- > Maximum capacity for bending round pipe: 4" inches or 101,6 mm.
- > Independent bending regulation of the lower rollers.

# OUR RANGE OF MACHINERY



IRON WORKERS



SECTION BENDING  
MACHINES



NON-MANDEL 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 videoconferencing 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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