NARGESA®

SECTION BENDING MACHINES

MC650

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...

+info

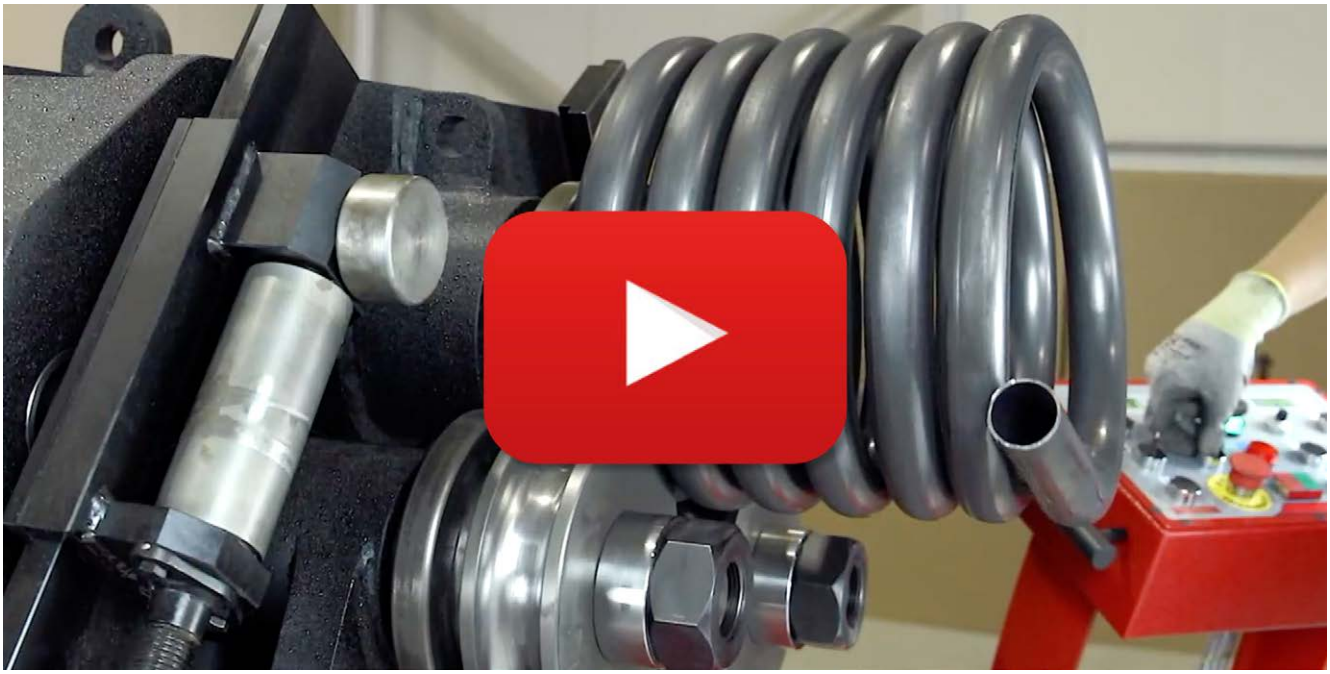
GET A QUOTE

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

REQUEST ADJUSTED QUOTATION

HOW IT WORKS VIDEO

Video on how the machine works



SOME OF OUR REMARKABLE CUSTOMERS

Talgo · AIRBUS · NISSAN · TOYOTA · American Chopper · Gestamp · Schneider Electric · Red Beard's Garage · equinor

OUR RANGE OF BENDING MACHINES

+info

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.

+info

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.

+info

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.

+info

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.

+info

MC650

> **Three drive rollers.**
> **Diameter of axes:** Inferiores 65 mm / Superior 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.

BENDING CAPACITY

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

	MC150B		MC200		MC400		MC200H		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"1/2x3*	250 500 500	40x2* 63,5x3* = 2"1/2x3*	200 450 450	40x2* 76,2x2* =3"x2*	200 500 500	88,9x4* 101,6x3* =4"x3*	700 700 700

* *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.

> 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.

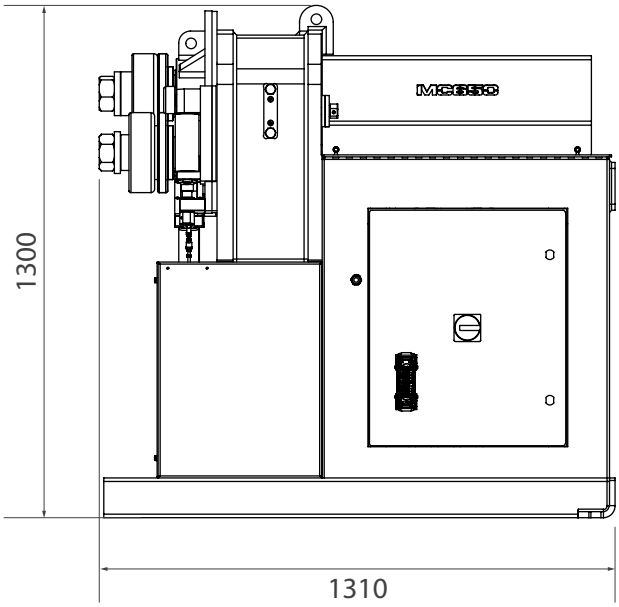
> Hydraulic motor power: 0.75 KW / 1 CV.

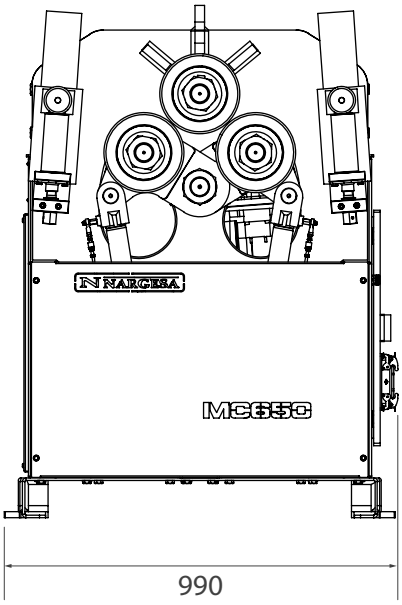
> 3-phased tension: 230/400 V.

> Rollers speed: 5 R.P.M.

** All or 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	2080 mm.
Volume	2,96 m^3
Net Weight	1262 Kg.
Gross Weight	1313 Kg.

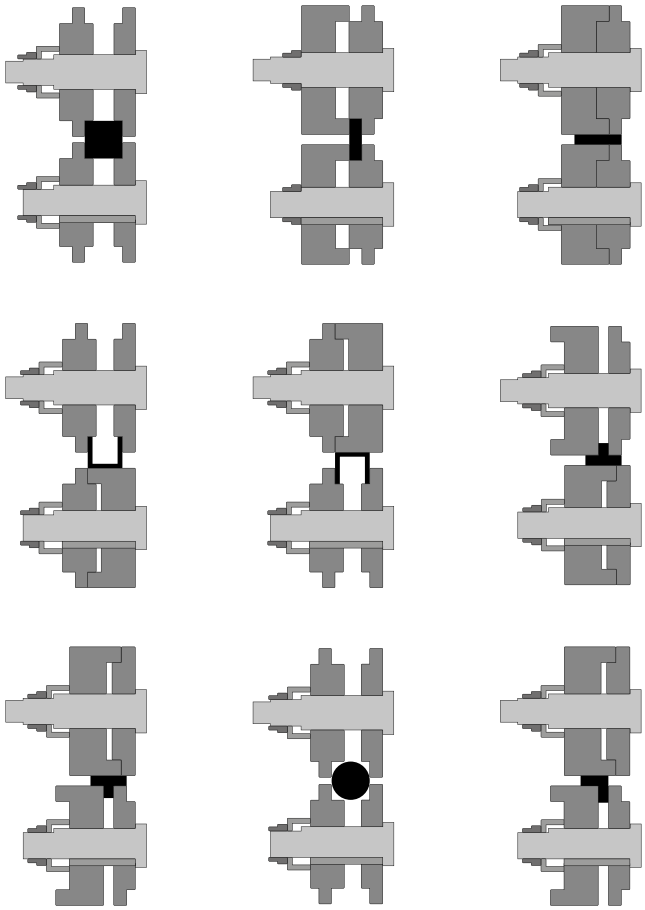
STANDARD ACCESSORIES DELIVERED WITH THE MACHINE

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 PDF



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: $\Delta L = 0.02mm$
> Error tolerance over the radius: $\Delta R = (0.01*R)mm$
> Power supply: 3V CR2032 Lithium battery
> Working temperature: 0±40ºC
> Storage and transport temperature: -20ºC – 60ºC
> Relative humidity: =80%

Arc meters supplied with the High precision digital radius gauge

100 Measurement arc

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

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

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 · MC650

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

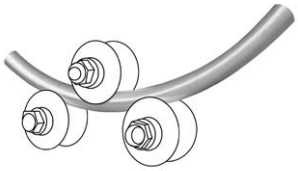
Always clean up the rollers well before using stainless steel not to get the pipe contaminated.
When the tube measurements are small, two measurements are added on the same roller.

Tube size in mm		
Reference	**Dimensions**	**Weight**
140-08-08-RHT0001	(25 + 30)	45,30 Kg.
140-08-08-RHT0002	(20 + 35)	44,80 Kg.
140-08-08-RHT0003	40	45,30 Kg.
140-08-08-RHT0004	50	40,80 Kg.
140-08-08-RHT0005	60	35,70 Kg.
140-08-08-RHT0006	70	64,70 Kg.
140-08-08-RHT0007	80	57,40 Kg.
140-08-08-RHT0008	90	49,50 Kg.
140-08-08-RHT0009	100	41,00 Kg.
For Schedule pipe		
140-08-08-RHISOT0001	(3/8" + 1/2") = (17,2 + 21,3 mm)	49,50 Kg.
140-08-08-RHISOT0002	(1" + 3/4") = (33,7 + 26,9 mm)	43,75 Kg.
140-08-08-RHISOT0003	1" 1/4 = 42,4 mm	44,40 Kg.
140-08-08-RHISOT0004	1" 1/2 = 48,3 mm	41,60 Kg.
140-08-08-RHISOT0005	2" = 60,3 mm	35,50 Kg.
140-08-08-RHISOT0006	2" 1/2 = 76,1 mm	60,20 Kg.
140-08-08-RHISOT0007	3" = 88,9 mm	50,35 Kg.
140-08-08-RHISOT0008	3" 1/2 = 101,6 mm	39,50 Kg.
For Whitwort inches pipe		
140-08-08-RHWT-00001	(1/2"+1"1/4) = (12,70 + 31,75 mm)	47,25 Kg.
140-08-08-RHWT-00002	(1"+3/4") = (25,40 + 19,05 mm)	48,00 Kg.
140-08-08-RHWT-00003	1"1/2 = 38,1 mm	45,90 Kg.
140-08-08-RHWT-00004	2" = 50,8 mm	40,70 Kg.
140-08-08-RHWT-00005	2"1/2 = 63,5 mm	33,70 Kg.
140-08-08-RHWT-00006	3" = 76,2 mm	60,20 Kg.
140-08-08-RHWT-00007	3" 1/2 = 88,9 mm	50,35 Kg.
140-08-08-RHWT-00008	4" = 101,6 mm	39,50 Kg.

Sustarin Rollers · MC650

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**
140-08-08-RI0001	(25 + 30)	9,35 Kg.
140-08-08-RI0002	(20 + 35)	9,25 Kg.
140-08-08-RI0003	40	9,30 Kg.
140-08-08-RI0004	50	8,50 Kg.
140-08-08-RI0005	60	7,60 Kg.
140-08-08-RI0006	70	6,50 Kg.
140-08-08-RI0007	80	11,80 Kg.
140-08-08-RI0008	90	10,35 Kg.
140-08-08-RI0009	100	8,80 Kg.
For Schedule pipe		
140-08-08-RIISOT0001	(3/8" + 1/2") = (17,2 + 21,3 mm)	10,10 Kg.
140-08-08-RIISOT0002	(1" + 3/4") = (33,7 + 26,9 mm)	9,00 Kg.
140-08-08-RIISOT0003	1" 1/4 = 42,4 mm	9,15 Kg.
140-08-08-RIISOT0004	1" 1/2 = 48,3 mm	8,65 Kg.
140-08-08-RIISOT0005	2" = 60,3 mm	7,55 Kg.
140-08-08-RIWT0006	2" 1/2 = 76,1 mm	12,30 Kg.
140-08-08-RIWT0007	3" = 88,9 mm	10,50 Kg.
140-08-08-RIWT0008	3" 1/2 = 101,6 mm	8,50 Kg.
For Whitwort inches pipe		
140-08-08-RIWT-00001	(1/2"+1"1/4) = (12,70 + 31,75 mm)	9,65 Kg.
140-08-08-RIWT-00002	(1"+3/4") = (25,40 + 19,05 mm)	9,80 Kg.
140-08-08-RIWT-00003	1"1/2 = 38,1 mm	9,40 Kg.
140-08-08-RIWT-00004	2" = 50,8 mm	8,45 Kg.
140-08-08-RIWT-00005	2"1/2 = 63,5 mm	7,25 Kg.
140-08-08-RIWT-00006	3" = 76,2 mm	12,30 Kg.
140-08-08-RIWT-00007	3" 1/2 = 88,9 mm	10,50 Kg.
140-08-08-RIWT-00008	4" = 101,6 mm	8,50 Kg.

OUR RANGE OF MACHINERY

+info IRON WORKERS

+info SECTION BENDING MACHINES

+info NON-MANDREL PIPE BENDER

+info HORIZONTAL PRESS BRAKES

+info TWISTING/SCROLL BENDING MACHINES

+info HYDRAULIC PRESS BRAKES

+info HYDRAULIC SHEAR MACHINES

+info GAS FORGES

+info IRON EMBOSSING MACHINES

+info END WROUGHT IRON MACHINES

+info BROACHING MACHINES

+info POWER HAMMERS

+info 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.

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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This information might undergo changes