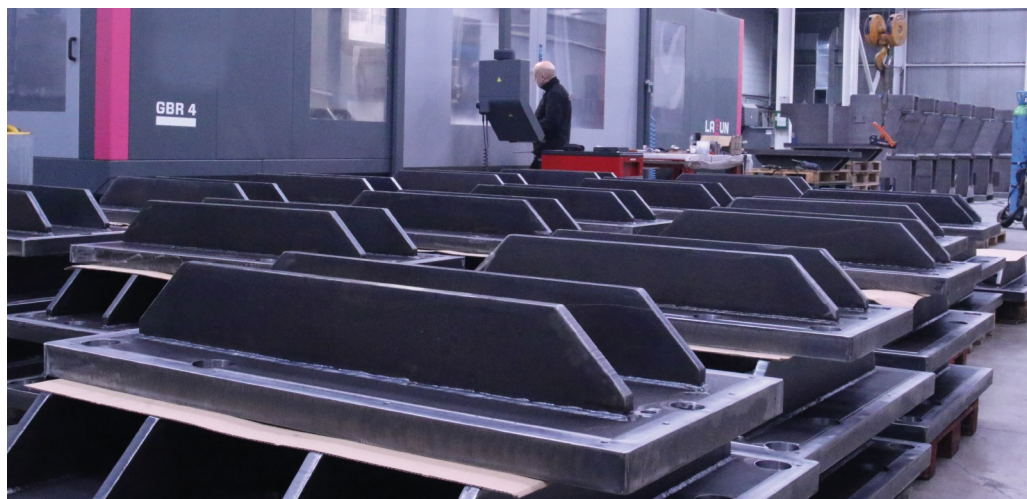
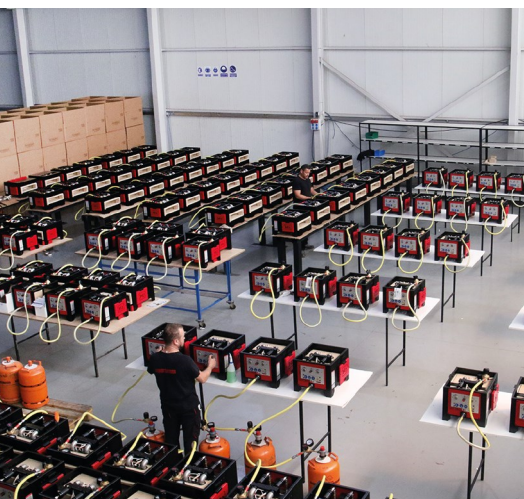


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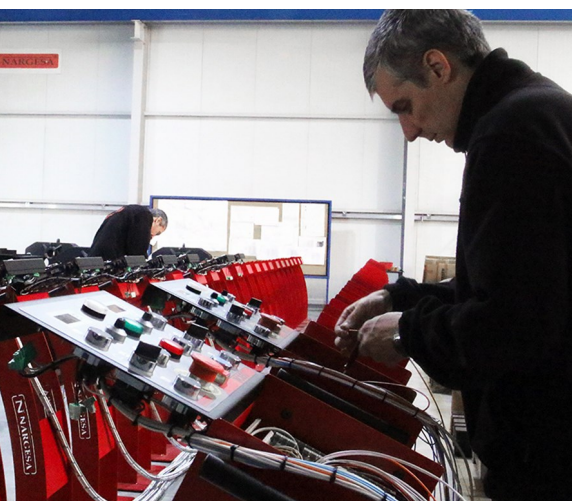
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According to evolution of regulations and material, the features indicated by the description and pictures in this document do not commit us until a further confirmation by our sales department. Prices may be subjected to variation and thus the material will be always invoiced according to the ruling conditions at delivery.

## Forge furnaces

### ► Forge furnace H1

The new propane forging furnace H1 NARGESA, has been designed to heat up steel in a more efficient and safe way, respecting environment.

More efficient: up to a 75% less gas, achieving higher temperature that any furnace of its range.

Safer: new safety systems for the operator, according to the regulation RD919/2006.

100% Respectful with environment: lower than 0.002€ CO. Inside cover with vermiculite 100% natural and eco-friendly.

<b>Reference</b>	<b>100-04-03-001</b>
<b>Dimensions of combustion chamber</b>	286x140x100 mm
<b>Type of fuel</b>	Propane gas (GLP)
<b>Gas intake as 1 per bar</b>	0,35 Kg/h
<b>Adjustable working pressure</b>	0,1 - 1,5 bar
<b>Power (Hi)</b>	4 kW
<b>Maximum temperature</b>	1300 °C
<b>Nr of burners</b>	1
<b>External dimensions</b>	440x310x365 mm
<b>Weight</b>	26 Kg



### ► Forge furnace H2

The new propane forging furnace H1 NARGESA, has been designed to heat up steel in a more efficient and safe way, respecting environment.

More efficient: up to a 75% less gas, achieving higher temperature that any furnace of its range.

Safer: new safety systems for the operator, according to the regulation RD919/2006.

100% Respectful with environment: lower than 0.002€ CO. Inside cover with vermiculite 100% natural and eco-friendly.

<b>Dimensions of combustion chamber</b>	324x240x100 mm
<b>Type of fuel</b>	Propane gas (GLP)
<b>Gas intake as 1 per bar</b>	0,7 Kg/h
<b>Adjustable working pressure</b>	0,1 - 1,5 bar
<b>Power (Hi)</b>	8 kW
<b>Maximum temperature</b>	1300 °C
<b>Nr of burners</b>	2
<b>External dimensions</b>	500x440x365 mm
<b>Weight</b>	38 Kg



## Forge furnaces

### ► Forge furnace H3

The new propane forging furnace H1 NARGESA, has been designed to heat up steel in a more efficient and safe way, respecting environment.

More efficient: up to a 75% less gas, achieving higher temperature that any furnace of its range.

Safer: new safety systems for the operator, according to the regulation RD919/2006.

100% Respectful with environment: lower than 0.002€ CO. Inside cover with vermiculite 100% natural and eco-friendly.

<b>Reference</b>	<b>100-04-04-001</b>
<b>Dimensions of combustion chamber</b>	464x240x100 mm
<b>Type of fuel</b>	Propane gas (GLP)
<b>Gas intake as 1 per bar</b>	1 Kg/h
<b>Adjustable working pressure</b>	0,1 - 1,5 bar
<b>Power (Hi)</b>	12 kW
<b>Maximum temperature</b>	1300 °C
<b>Nr of burners</b>	3
<b>External dimensions</b>	500x580x365 mm
<b>Weight</b>	50 Kg



## Profile Formers

### ► Profile former MC150B

Section bending, pipe curving machine MC150B Nargesa. Our pipe bender MC150B is designed to minimize the manufacturing cost and provide maximum performance when bending pipes and profiles. It has been manufactured for different profiles such as flat bar or bar section, T-profile, rolling U-profile, bending angle, bending solid rod, both square and round types, spiral tube or even to perform square, rectangular or round pipe.

<b>Reference</b>	<b>100-08-07-001</b>
<b>Engine power</b>	0,75 KW / 1 HPa 1400 r.p.m.
<b>Tension</b>	3 phased 230/400 V o 1 phased 230 V
<b>Speed</b>	6 r.p.m.
<b>Axes diameter</b>	40 mm
<b>Rollers diameter</b>	127 mm
<b>Useful axes length</b>	74 mm
<b>Dimensions</b>	690x943x1140 mm
<b>Weight</b>	270 Kg



### ► Profile former MC200

Profile former MC200 Nargesa, is made of mechanized and weldes Steel sheet. Unlike others, this one's not made of melting. It has been conceived for work pipes and profiles. It is ideal for making spiral stairs, to bend pipes in spiral shapes, flanges for pipes, greenhouses, handrails, tables, chairs, doors, windows... making all kind of circular shapes in all kinds of profiles

<b>Reference</b>	<b>100-08-02-002</b>
<b>Engine power</b>	1,1 KW / 1,5 HP
<b>Three-phased tension</b>	230 / 400 V
<b>Speed</b>	8 r.p.m.
<b>Axes diameter</b>	40 mm
<b>Rollers diameter</b>	127 mm
<b>Useful axes length</b>	74 mm
<b>Dimensions</b>	815x694x1314 mm
<b>Weight</b>	320 Kg



## Profile Formers

### ► Profile former MC400

Profile former MC400 Nargesa, is made of mechanized and weldes Steel sheet. Unlike others, this one's not made of melting. It has been conceived for work pipes and profiles. It is ideal for making spiral stairs, to bend pipes in spiral shapes, flanges for pipes, greenhouses, handrails, tables, chairs, doors, windows... making all kind of circular shapes in all kinds of profiles.

<b>Reference</b>	<b>100-08-01-001</b>
<b>Engine power</b>	1,1 KW / 1,5 HP
<b>Three-phased tension</b>	230 / 400 V
<b>Speed</b>	7 r.p.m.
<b>Axes diameter</b>	40 mm
<b>Rollers diameter</b>	130 mm
<b>Useful axes length</b>	80 mm
<b>Dimensions</b>	650x740x1260 mm
<b>Weight</b>	365 Kg



### ► Profile former MC200H

Profile Former MC200H Nargesa, made of welded and mechanized steel sheet. Unlike the others, this one is not made of cast iron. Ideal for making flanges, greenhouses, balausters, tables, chairs, doors, windows... making a great number of circular shape in all kinds of profiles. Its robustness, axis diameter, reducer capacity and other features, make it one of the best bending machines in the market, within the category of two traction rollers.

<b>Reference</b>	<b>100-08-03-001</b>
<b>Engine power</b>	1,1 KW / 1,5 HP
<b>Three-phased tension</b>	230 / 400 V
<b>Speed</b>	8 r.p.m.
<b>Axes diameter</b>	40 mm
<b>Rollers diameter</b>	127 mm
<b>Useful axes length</b>	74 mm
<b>Dimensions</b>	815x694x1520 mm
<b>Weight</b>	360 Kg



## Accessories for Profile formers MC150B, MC200, MC200H and MC400

### ► Set of treated steel rollers



Set of 3 treated steel rollers for steel round pipe or stainless steel, thickness bigger than 2 mm. When pipe sizes are smaller, two sizes are included in the same roller.

Eg. (25 + 30) o (1/2" + 1"1/4")

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

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 Whitworth 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

## Accessories for Profile formers MC150B, MC200, MC200H and MC400

### ► Set of Sustarin rollers



Set of 3 Sustarin rollers for stainless steel pipes, aluminium and delicate materials for thickness smaller than 2.5 mm.

When pipe sizes are smaller, two sizes are included in the same roller.

Eg. (25 + 30)

*Sustarin rollers do not spoil or contaminate the pipe.*

**For any other size or profile please ask the manufacturer.**

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-RIW-00004	50,8	1,20 Kg
140-08-01-RI0008	60	0,90 Kg
For Whitworth 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

## Profile Formers

### ► Profile former MC650

The Pipe and Section Bending Machine Nargesa MC650 is ideal for making flanges, greenhouses, rails, large structures for the construction and all kinds of circular shapes in various profiles and pipes in small and large sizes.

<b>Reference</b>	<b>100-08-08-001</b>
<b>Engine power</b>	3 Kw / 4 HP
<b>Hydraulic motor power</b>	0,75 Kw / 1 HP
<b>Three-phased tension</b>	230/400 V 3-phased
<b>Rollers Speed</b>	5 r.p.m.
<b>Axis diameter</b>	Lower 65 mm / Higher 80 mm
<b>Useful length of axis</b>	130 mm
<b>Dimensions</b>	1300x990x1300 mm
<b>Weight</b>	1250 Kg



## Accessories for Profile formers MC650

### ► Set of treated steel rollers



Set of 3 sets of treated steel rollers for steel round pipe or stainless steel, thickness bigger than 2 mm. When pipe sizes are smaller, two sizes are included in the same roller.

Eg. (25 + 30) o (1/2" + 1"1/4")

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

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-RHWT0006	2" 1/2 = 76,1 mm	60,20 Kg
140-08-08-RHWT0007	3" = 88,9 mm	50,35 Kg
140-08-08-RHWT0008	3" 1/2 = 101,6 mm	39,50 Kg
For Whitworth inches pipe		
140-08-08-RHWT0001	(1/2" + 1"1/4") = (12,7 + 31,75 mm)	47,25 Kg
140-08-08-RHWT0002	(1" + 3/4") = (25,4 + 19,05 mm)	48,00 Kg
140-08-08-RHWT0003	1"1/2 = 38,1 mm	45,90 Kg
140-08-08-RHWT0004	2" = 50,8 mm	40,70 Kg
140-08-08-RHWT0005	2"1/2 = 63,5 mm	33,70 Kg
140-08-08-RHWT0006	3" = 76,2 mm	60,20 Kg
140-08-08-RHWT0007	3" 1/2 = 88,9 mm	50,35 Kg
140-08-08-RHWT0008	4" = 101,6 mm	39,50 Kg

## Accessories for Profile formers MC650

### ► Set of Sustarin rollers



Set of 3 Sustarin rollers for stainless steel pipes, aluminium and delicate materials for thickness smaller than 2.5 mm.

When pipe sizes are smaller, two sizes are included in the same roller.

Eg. (25 + 30)

*Sustarin rollers do not spoil or contaminate the pipe.*

**For any other size or profile please ask the manufacturer.**

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	$(3/8" + 1/2") = (17,2 + 21,3 \text{ mm})$	10,10 Kg
140-08-08-RIISOT0002	$(1" + 3/4") = (33,7 + 26,9 \text{ mm})$	9,00 Kg
140-08-08-RIISOT0003	$1" 1/4 = 42,4 \text{ mm}$	9,15 Kg
140-08-08-RIISOT0004	$1" 1/2 = 48,3 \text{ mm}$	8,65 Kg
140-08-08-RIISOT0005	$2" = 60,3 \text{ mm}$	7,55 Kg
140-08-08-RIWT0006	$2" 1/2 = 76,1 \text{ mm}$	12,30 Kg
140-08-08-RIWT0007	$3" = 88,9 \text{ mm}$	10,50 Kg
140-08-08-RIWT0008	$3" 1/2 = 101,6 \text{ mm}$	8,50 Kg
For Whitworth inches pipe		
140-08-08-RIWT0001	$(1/2" + 1" 1/4") = (12,7 + 31,75 \text{ mm})$	9,65 Kg
140-08-08-RIWT0002	$(1" + 3/4") = (25,4 + 19,05 \text{ mm})$	9,80 Kg
140-08-08-RIWT0003	$1" 1/2 = 38,1 \text{ mm}$	9,40 Kg
140-08-08-RIWT0004	$2" = 50,8 \text{ mm}$	8,45 Kg
140-08-08-RIWT0005	$2" 1/2 = 63,5 \text{ mm}$	7,25 Kg
140-08-08-RIWT0006	$3" = 76,2 \text{ mm}$	12,30 Kg
140-08-08-RIWT0007	$3" 1/2 = 88,9 \text{ mm}$	10,50 Kg
140-08-08-RIWT0008	$4" = 101,6 \text{ mm}$	8,50 Kg

## Digital radius gauge

### ► High precision digital radius gauge

#### Especially designed for measuring radii on profiles.

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.

<b>Reference</b>	<b>140-MED08-00001</b>
<b>Measurement scope</b>	From 55 to 11.250 mm or from 2" to 443"
<b>Error tolerance over the radius</b>	$\Delta R = (0.01 \cdot R) \text{ mm}$
<b>Error toler. over the touch sensor</b>	$\Delta L = 0.02 \text{ mm}$
<b>Power supply</b>	3V CR2032 Lithium battery
<b>Radius gauge dimensions</b>	250x60x40 mm
<b>100 arc meter dimensions</b>	125x57x20 mm
<b>200 arc meter dimensions</b>	225x54x20 mm
<b>300 arc meter dimensions</b>	325x59x20 mm
<b>Weight</b>	1,3 Kg



**NEW**

- Includes 3V CR2032 lithium battery
- Includes 3 measurement arcs (100, 200 and 300 mm).
- Supplied with a shock-resistant stainless Steel briefcase.

## Non-Mandrel Pipe Benders

### ► Non-mandrel pipe bender CC60

The new generation of CC60 non-mandrel pipe benders makes up to 180° curves on hollow pipes with the best finish, the greatest speed and thinner than other machines in the same category. Pipes may be round, oval, square, rectangular...made of different materials, iron, aluminum, stainless steel, copper...

<b>Reference</b>	<b>100-17-01-001</b>
<b>Engine power</b>	1,1 KW / 1,5 CV
<b>Single-phase tension</b>	230 V Single-phase 50/60 Hz
<b>Automatic rotation speed</b>	From 1,1 to 3,5 r.p.m.
<b>Intensity</b>	5 A
<b>Minimum radius of curvature</b>	3 times the pipe diameter
<b>Maximum radius of curvature</b>	320 mm
<b>Maximum working stroke on round steel pipe</b>	60,3mm or 2" Schedule-40 or 2" 1/4 x 4mm.
<b>Maximum angle of curvature</b>	180°
<b>Dimensions</b>	630x1000x1150 mm
<b>Weight</b>	365 Kg



**NEW**



## Accessories for Non-Mandrel Pipe Bender CC60

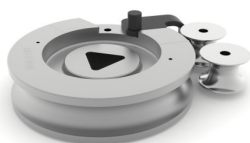
### ► Accessories for round pipes in millimeters · 12 to 60 mm



Rollers made of treated Steel. Units suitable for bending all types of round pipes 12 to 60 millimeters. The following is supplied with the unit: A main roller, a counter-shape, a clamp with a fastener  
*Check with the manufacturer for other dimensions*

REF.	Diam. Ext.	Radius	Min. thickness	Max. thickness	Weight
<b>Set diameter 12mm Radius 60</b>					
140-17-01-10012	12mm	60mm	1mm	5mm	3,26Kg
<b>Set diameter 15mm Radius 60</b>					
140-17-01-10001	15mm	4D=60mm	1mm	5mm	3,18Kg
<b>Set diameter 18mm Radius 60</b>					
140-17-01-10010	18mm	60mm	1mm	5mm	3,11Kg
<b>Set diameter 20mm Radius 60</b>					
140-17-01-10002	20mm	3D=60mm	1mm	5mm	3,22Kg
<b>Set diameter 22mm Radius 66</b>					
140-17-01-10014	22mm	3D=66mm	1mm	5mm	4,10Kg
<b>Set diameter 25mm Radius 75</b>					
140-17-01-10003	25mm	3D=75mm	1,2mm	5mm	5,55Kg
<b>Set diameter 28mm Radius 84</b>					
140-17-01-10011	28mm	3D=84mm	1,2mm	5mm	7,28Kg
<b>Set diameter 30mm Radius 90</b>					
140-17-01-10004	30mm	3D=90mm	1,2mm	5mm	8,29Kg
<b>Set diameter 32mm Radius 96</b>					
140-17-01-10013	32mm	3D=96mm	1,5mm	5mm	10,16Kg
<b>Set diameter 35mm Radius 105</b>					
140-17-01-10005	35mm	3D=105mm	1,5mm	5mm	12,14Kg
<b>Set diameter 40mm Radius 120</b>					
140-17-01-10006	40mm	3D=120mm	1,5mm	5mm	17,11Kg
<b>Set diameter 50mm Radius 150</b>					
140-17-01-10007	50mm	3D=150mm	2mm	5mm	31,41Kg
<b>Set diameter 60mm Radius 180</b>					
140-17-01-10008	60mm	3D=180mm	2mm	2,5mm	40,88Kg

### ► Accessories for 60mm round pipes



Rollers made of treated steel. Suitable kit to bend 60mm tube of 3mm wall thickness or thicker. The following is supplied with the unit: A main roller, a clamp with a fastener, a support holder  
*Check with the manufacturer for other dimensions*  
*Supporting Roller Kit REF: 140-17-01-00002 is required*

REF.	Diam. Ext.	Radius	Min. thickness	Max. thickness	Weight
<b>Set diameter 60mm Radius 180 with support holder</b>					
140-17-01-10009	60mm	3D=180mm	3mm	4mm	40,58Kg

## Accessories for Non-Mandrel Pipe Bender CC60

### ► Accessories for round pipes 3/8" to 1" 1/2 Schedule



Rollers made of treated Steel. Units suitable for bending all types of round pipes 3/8" to 1" 1/2 Schedule.

The following is supplied with the unit: A main roller, a counter-shape, a clamp with a fastener  
*Check with the manufacturer for other dimensions*

REF.	Diam. Ext.	Diam. Ext.	Radius	SCH10	SCH40	SCH80	SCH160	Weight
<b>Set diameter 17,10mm Radius 60mm Diameter 3/8" Schedule</b>								
140-17-01-20001	3/8"	17,1mm	60mm	1,65mm	2,31mm	3,20mm	—	4,22Kg
<b>Set diameter 21,30mm Radius 63,9mm Diameter 1/2" Schedule</b>								
140-17-01-20002	1/2"	21,3mm	3D=63,9 mm	2,11mm	2,77mm	3,73mm	4,78mm	3,56Kg
<b>Set diameter 26,70mm Radius 80,1mm Diameter 3/4" Schedule</b>								
140-17-01-20003	3/4"	26,7mm	3D=80,1mm	2,11mm	2,87mm	3,91mm	5,56mm	6,74Kg
<b>Set diameter 33,70mm Radius 101,1mm Diameter 1" Schedule</b>								
140-17-01-20004	1"	33,7mm	3D=101,1mm	2,77mm	3,38mm	4,55mm	6,35mm	11,18Kg
<b>Set diameter 42,40mm Radius 127,2mm Diameter 1" 1/4 Schedule</b>								
140-17-01-20005	1" 1/4	42,4mm	3D=127,2mm	2,77mm	3,56mm	4,85mm	6,35mm	18,86Kg
<b>Set diameter 48,30mm Radius 144,9mm Diameter 1" 1/2 Schedule</b>								
140-17-01-20006	1" 1/2	48,3mm	3D=144,9mm	2,77mm	3,68mm	5,08mm	—	27,05Kg

### ► Accessories for 2" Schedule round pipes



Rollers made of treated steel. Suitable kit to bend 2" tube of 2,77mm wall thickness or thicker.

The following is supplied with the unit: A main roller, a clamp with a fastener, a support holder

*Check with the manufacturer for other dimensions*

*Supporting Roller Kit REF: 140-17-01-00002 is required*

REF.	Diam. Ext.	Diam. Ext.	Radius	SCH10	SCH40	SCH80	SCH160	Weight
<b>Set diameter 60,30mm Radius 180,9mm Diameter 2" Schedule</b>								
140-17-01-20007	2"	60,30mm	3D=180,9mm	2,77mm	3,91mm	—	—	45,75Kg

\* All capacities are based on the norm of carbon steel tubes according to ASTM, Standard A-53 grade A with a maximum resistance strength of 330MPa. The walls with more thickness to the established one and the materials with more resistance, reduce the capacities of the machine. Check with your material supplier for the specifications of this one.

## Accessories for Non-Mandrel Pipe Bender CC60

### ► Accessories for round pipes in inches · 1/2" to 2" 1/4 inches



Rollers made of treated Steel. Units suitable for bending all types of round pipes 1/2" to 2" 1/4 inches. The following is supplied with the unit: A main roller, a counter-shape, a clamp with a fastener  
*Check with the manufacturer for other dimensions*

REF.	Diam. Ext.	Diam. Ext.	Radius	Min. thickness	Max. thickness	Weight
<b>Set diameter 12,7mm Radius 60mm Diameter 1/2" inches</b>						
140-17-01-30011	1/2"	12,7mm	60mm	1mm	4mm	3,37Kg
<b>Set diameter 15,88mm Radius 60mm Diameter 5/8" inches</b>						
140-17-01-30001	5/8"	15,88mm	60mm	1mm	4mm	3,61Kg
<b>Set diameter 19,05mm Radius 60mm Diameter 3/4" inches</b>						
140-17-01-30002	3/4"	19,05mm	60mm	1mm	4mm	2,79Kg
<b>Set diameter 22,22mm Radius 66mm Diameter 7/8" inches</b>						
140-17-01-10014	7/8"	22,22mm	66mm	1mm	5mm	4,10Kg
<b>Set diameter 25,40mm Radius 76,20mm Diameter 1" inches</b>						
140-17-01-30003	1"	25,4mm	3D=76,2mm	1,2mm	5mm	5,72Kg
<b>Set diameter 31,75mm Radius 95,25mm Diameter 1" 1/4 inches</b>						
140-17-01-30004	1" 1/4	31,75mm	3D=95,25mm	1,5mm	6mm	10,21Kg
<b>Set diameter 38,10mm Radius 114,30mm Diameter 1" 1/2 inches</b>						
140-17-01-30005	1" 1/2	38,10mm	3D=114,3mm	1,5mm	7mm	15,69Kg
<b>Set diameter 44,45mm Radius 133,35mm Diameter 1" 3/4 inches</b>						
140-17-01-30010	1" 3/4	44,45mm	3D=133,35mm	2mm	5mm	21,86Kg
<b>Set diameter 50,8mm Radius 152,4mm Diameter 2" inches</b>						
140-17-01-30006	2"	50,80mm	3D=152,4mm	2mm	5mm	32,24Kg
<b>Set diameter 57,15mm Radius 171,45mm Diameter 2" 1/4 inches</b>						
125-17-01-30007	2" 1/4	57,15mm	3D=171,45mm	2mm	2,5mm	36,13Kg

### ► Accessories for 2" 1/4 round pipes



Rollers made of treated Steel. Suitable kit to bend 2" 1/4 tube of 3mm wall thickness or thicker. The following is supplied with the unit: A main roller, a clamp with a fastener, a support holder  
*Check with the manufacturer for other dimensions*  
*Supporting Roller Kit REF: 140-17-01-00002 is required*

REF.	Diam. Ext.	Diam. Ext.	Radius	Min. thickness	Max. thickness	Weight
<b>Set diameter 57,15mm Radius 171,45mm Diameter 2" 1/4 with support holder</b>						
140-17-01-30008	2" 1/4	57,15mm	3D=171,45mm	3mm	4mm	35,91Kg

\* The walls with more thickness to the established one and the materials with more resistance, reduce the capacities of the machine.

## Accessories for Non-Mandrel Pipe Bender CC60

### ► Supporting Roller Kit CC60



**REF:** 140-17-01-00002

The CC60 Supporting Roller Kit is used to bend:

- 60mm tube of 3mm wall thickness or thicker
- 2" Schedule tube of 2,77mm wall thickness or thicker
- 2" 1/4 tube of 3mm wall thickness or thicker

**Weight:** 9,85Kg

### ► Accessories for square pipes in millimeters · 20 to 40 mm



Rollers made of treated Steel. Units suitable for bending all types of square pipes 20 to 40mm. The following is supplied with the unit: A main roller, a counter-shape, a clamp with a fastener  
*Check with the manufacturer for other dimensions*

REF.	Section	Radius	Min. thickness	Max. thickness	Weight
<b>Square Tube Die Set 20mm Radius 100mm</b>					
140-17-01-10101	20x20mm	5D=100mm	1,5mm	4mm	11,1Kg
<b>Square Tube Die Set 25mm Radius 115mm</b>					
140-17-01-10102	25x25mm	115mm	2mm	4mm	14,75Kg
<b>Square Tube Die Set 30mm Radius 135mm</b>					
140-17-01-10103	30x30mm	135mm	2mm	4mm	22Kg
<b>Square Tube Die Set 40mm Radius 165mm</b>					
140-17-01-10104	40x40mm	165mm	2mm	5mm	34,15Kg

### ► Accessories for square pipes in inches · 3/4" to 1" 1/2 inches



Rollers made of treated Steel. Units suitable for bending all types of square pipes 3/4" to 1" 1/2 inches. The following is supplied with the unit: A main roller, a counter-shape, a clamp with a fastener  
*Check with the manufacturer for other dimensions*

REF.	Section	Section	Radius	Radius	Min. Thick.	Max. Thick.	Weight
<b>Square Tube Die Set 3/4" (19,05mm) Radius 4" (101,6mm)</b>							
140-17-01-30101	3/4"x3/4"	19,05x19,05mm	4"	101,6mm	1,5mm	4mm	11,5Kg
<b>Square Tube Die Set 1" (25,4mm) Radius 4,5" (114,3mm)</b>							
140-17-01-30102	1"x1"	25,4x25,4mm	4" 1/2	114,3mm	2mm	4mm	14,6Kg
<b>Square Tube Die Set 1" 1/4 (31,75mm) Radius 5,5" (139,7mm)</b>							
140-17-01-30103	1" 1/4x1" 1/4	31,75x31,75mm	5" 1/2	139,7mm	2mm	4mm	23,3Kg
<b>Square Tube Die Set 1" 1/2 (38,1mm) Radius 6,5" (165,1mm)</b>							
140-17-01-30104	1" 1/2x1" 1/2	38,1x38,1mm	6" 1/2	165,1mm	2mm	5mm	34,6Kg

## Accessories for Non-Mandrel Pipe Bender CC60

### ► Nargesa BEND8 aerosol lubricant



The CC60 pipe bender comes with a 400 ml bottle of BEND8 lubricant. This is a high-additive and low-viscosity aerosol oil. Contains PTFE. Does not contain silicone.

- Enables the finish on the outer bend
- Inhibits roughness and inner marks
- Reduces wear of the tooling
- Especially designed for tubes of small thickness
- Lubricates to reduce friction
- Avoids and dissolves corrosion
- Gives shine and protects
- Cleans up and removes dirt

REF.	Description	Quantity	Weight
060-SPR-00003	400 ml bottle	400ml	0,390 Kg
060-SPR-00004	Box of 12 400 ml bottles	12x400ml	4,830 Kg

### ► CC60 2-axis positioning gauge



The gauge of the CC60 allows to make mass produced parts, much faster, more accurate and repetitively.

- Adjustable longitudinal positioning with 6 positions
- Angular head rotation every 5 degrees
- Four-clamp plate adjustable to round and square tube
- Longitudinal movement with high precision linear guides
- Automatic anti-collision control
- Easy handling and preparation for difficult parts

REF.	Gauge length	Maximum capacity	Weight
140-17-01-50000	3000mm	60,3mm, 2" Schedule	125Kg

## Non-Mandrel Pipe Benders

### ► Non-mandrel pipe bender CC90

The new generation of CC90 non-mandrel pipe benders makes up to 180° curves on hollow pipes with the best finish, the greatest speed and thinner than other machines in the same category. Pipes may be round, oval, square, rectangular...made of different materials, iron, aluminum, stainless steel, copper...

<b>Reference</b>	<b>100-17-02-001</b>
<b>Engine power</b>	2,2 Kw / 3 CV
<b>Three-phased tension</b>	230/400 V 50/60 Hz
<b>Automatic rotation speed</b>	From 0,75 to 2,2 r.p.m.
<b>Intensity</b>	9/5 A
<b>Minimum radius of curvature</b>	3 times the pipe diameter
<b>Maximum radius of curvature</b>	346 mm
<b>Maximum working stroke on round steel pipe</b>	90mm or 3" Schedule or 3" 1/2 Whitworth or 3" Gas x 6mm.
<b>Maximum angle of curvature</b>	180°
<b>Dimensions</b>	700x1300x1360 mm
<b>Weight</b>	860 Kg



**NEW**



## Accessories for Non-Mandrel Pipe Bender CC90

### ► Accessories for round pipes in millimeters · 12 to 80 mm



Rollers made of treated Steel. Units suitable for bending all types of round pipes 12 to 80 millimeters. The following is supplied with the unit: A main roller, a counter-shape, a clamp with a fastener  
*Check with the manufacturer for other dimensions*

REF.	Diam. Ext.	Radius	Min. thickness	Max. thickness	Weight
<b>Set diameter 12mm Radius 60</b>					
140-17-01-10012	12mm	60mm	1mm	5mm	3,26Kg
<b>Set diameter 15mm Radius 60</b>					
140-17-01-10001	15mm	4D=60mm	1mm	5mm	3,18Kg
<b>Set diameter 18mm Radius 60</b>					
140-17-01-10010	18mm	60mm	1mm	5mm	3,11Kg
<b>Set diameter 20mm Radius 60</b>					
140-17-01-10002	20mm	3D=60mm	1mm	5mm	3,22Kg
<b>Set diameter 22mm Radius 66</b>					
140-17-01-10014	22mm	3D=66mm	1mm	5mm	4,10Kg
<b>Set diameter 25mm Radius 75</b>					
140-17-01-10003	25mm	3D=75mm	1,2mm	5mm	5,55Kg
<b>Set diameter 28mm Radius 84</b>					
140-17-01-10011	28mm	3D=84mm	1,2mm	5mm	7,28Kg
<b>Set diameter 30mm Radius 90</b>					
140-17-01-10004	30mm	3D=90mm	1,2mm	5mm	8,29Kg
<b>Set diameter 32mm Radius 96</b>					
140-17-01-10013	32mm	3D=96mm	1,5mm	5mm	10,16Kg
<b>Set diameter 35mm Radius 105</b>					
140-17-01-10005	35mm	3D=105mm	1,5mm	5mm	12,14Kg
<b>Set diameter 40mm Radius 120</b>					
140-17-01-10006	40mm	3D=120mm	1,5mm	5mm	17,11Kg
<b>Set diameter 50mm Radius 150</b>					
140-17-01-10007	50mm	3D=150mm	2mm	5mm	31,41Kg
<b>Set diameter 60mm Radius 180</b>					
140-17-01-10008	60mm	3D=180mm	2mm	2,5mm	40,88Kg
<b>Set diameter 70mm Radius 210</b>					
140-17-02-10001	70mm	3D=210mm	3,6mm	6mm	72,40Kg
<b>Set diameter 80mm Radius 240</b>					
140-17-02-10002	80mm	3D=240mm	4mm	5mm	88,17Kg

## Accessories for Non-Mandrel Pipe Bender CC90

### ► Accessories for 90mm round pipes



Rollers made of treated steel. Suitable kit to bend 90mm tube of 4mm wall thickness or thicker. The following is supplied with the unit: A main roller, a clamp with a fastener, a support holder  
*Check with the manufacturer for other dimensions*  
*Supporting Roller Kit REF: 140-17-02-00002 is required*

REF.	Diam. Ext.	Radius	Min. thickness	Max. thickness	Weight
<b>Set diameter 90mm Radius 270</b>					
140-17-02-10003	90mm	3D=270mm	4mm	5mm	114,36Kg

\* The walls with more thickness to the established one and the materials with more resistance, reduce the capacities of the machine.

## Accessories for Non-Mandrel Pipe Bender CC90

### ► Accessories for round pipes 3/8" to 2" 1/2 Schedule



Rollers made of treated Steel. Units suitable for bending all types of round pipes 3/8" to 2" 1/2 Schedule.

The following is supplied with the unit: A main roller, a counter-shape, a clamp with a fastener  
*Check with the manufacturer for other dimensions*

REF.	Diam. Ext.	Diam. Ext.	Radius	SCH10	SCH40	SCH80	SCH160	Weight
<b>Set diameter 17,10mm Radius 60mm Diameter 3/8" Schedule</b>								
140-17-01-20001	3/8"	17,1mm	60mm	1,65mm	2,31mm	3,20mm	—	4,22Kg
<b>Set diameter 21,30mm Radius 63,9mm Diameter 1/2" Schedule</b>								
140-17-01-20002	1/2"	21,3mm	3D=63,9 mm	2,11mm	2,77mm	3,73mm	4,78mm	3,56Kg
<b>Set diameter 26,70mm Radius 80,1mm Diameter 3/4" Schedule</b>								
140-17-01-20003	3/4"	26,7mm	3D=80,1mm	2,11mm	2,87mm	3,91mm	5,56mm	6,74Kg
<b>Set diameter 33,70mm Radius 101,1mm Diameter 1" Schedule</b>								
140-17-01-20004	1"	33,7mm	3D=101,1mm	2,77mm	3,38mm	4,55mm	6,35mm	11,18Kg
<b>Set diameter 42,40mm Radius 127,2mm Diameter 1" 1/4 Schedule</b>								
140-17-01-20005	1" 1/4	42,4mm	3D=127,2mm	2,77mm	3,56mm	4,85mm	6,35mm	18,86Kg
<b>Set diameter 48,30mm Radius 144,9mm Diameter 1" 1/2 Schedule</b>								
140-17-01-20006	1" 1/2	48,3mm	3D=144,9mm	2,77mm	3,68mm	5,08mm	—	27,05Kg
<b>Set diameter 60,30mm Radius 180,9mm Diameter 2" Schedule</b>								
140-17-02-20001	2"	60,30mm	3D=180,9mm	2,77mm	3,91mm	5,54mm	—	45,75Kg
<b>Set diameter 73mm Radius 219mm Diameter 2" 1/2 Schedule</b>								
140-17-02-20002	2" 1/2	73,0mm	3D=219mm	3,05mm	5,16mm	7,01mm	—	72,00Kg

### ► Accessories for 3" Schedule round pipes



Rollers made of treated steel. Suitable kit to bend 3" Schedule tube of 3,05mm wall thickness or thicker.

The following is supplied with the unit: A main roller, a clamp with a fastener, a support holder  
*Check with the manufacturer for other dimensions*  
*Supporting Roller Kit REF: 140-17-02-00002 is required*

REF.	Diam. Ext.	Diam. Ext.	Radius	SCH10	SCH40	SCH80	SCH160	Weight
<b>Set diameter 88,9mm Radius 266,7mm Diameter 3" Schedule</b>								
140-17-02-30003	3"	88,9mm	3D=266,7mm	3,05mm	5,49mm	—	—	110,80Kg

\* All capacities are based on the norm of carbon steel tubes according to ASTM, Standard A-53 grade A with a maximum resistance strength of 330MPa. The walls with more thickness to the established one and the materials with more resistance, reduce the capacities of the machine. Check with your material supplier for the specifications of this one.

## Accessories for Non-Mandrel Pipe Bender CC90

### ► Accessories for round pipes in inches · 1/2" to 3" inches



Rollers made of treated Steel. Units suitable for bending all types of round pipes 1/2" to 3" inches. The following is supplied with the unit: A main roller, a counter-shape, a clamp with a fastener  
*Check with the manufacturer for other dimensions*

REF.	Diam. Ext.	Diam. Ext.	Radius	Min. thickness	Max. thickness	Weight
<b>Set diameter 12,7mm Radius 60mm Diameter 1/2" inches</b>						
140-17-01-30011	1/2"	12,7mm	60mm	1mm	4mm	3,37Kg
<b>Set diameter 15,88mm Radius 60mm Diameter 5/8" inches</b>						
140-17-01-30001	5/8"	15,88mm	60mm	1mm	4mm	3,61Kg
<b>Set diameter 19,05mm Radius 60mm Diameter 3/4" inches</b>						
140-17-01-30002	3/4"	19,05mm	60mm	1mm	4mm	2,79Kg
<b>Set diameter 22,22mm Radius 66mm Diameter 7/8" inches</b>						
140-17-01-10014	7/8"	22,22mm	66mm	1mm	5mm	4,10Kg
<b>Set diameter 25,40mm Radius 76,20mm Diameter 1" inches</b>						
140-17-01-30003	1"	25,4mm	3D=76,2mm	1,2mm	5mm	5,72Kg
<b>Set diameter 31,75mm Radius 95,25mm Diameter 1" 1/4 inches</b>						
140-17-01-30004	1" 1/4	31,75mm	3D=95,25mm	1,5mm	6mm	10,21Kg
<b>Set diameter 38,10mm Radius 114,30mm Diameter 1" 1/2 inches</b>						
140-17-01-30005	1" 1/2	38,10mm	3D=114,3mm	1,5mm	7mm	15,69Kg
<b>Set diameter 44,45mm Radius 133,35mm Diameter 1" 3/4 inches</b>						
140-17-01-30010	1" 3/4	44,45mm	3D=133,35mm	2mm	5mm	21,86Kg
<b>Set diameter 50,8mm Radius 152,4mm Diameter 2" inches</b>						
140-17-01-30006	2"	50,80mm	3D=152,4mm	2mm	5mm	32,24Kg
<b>Set diameter 57,15mm Radius 171,45mm Diameter 2" 1/4 inches</b>						
140-17-01-30007	2" 1/4	57,15mm	3D=171,45mm	2mm	5mm	36,13Kg
<b>Set diameter 63,5mm Radius 190,5mm Diameter 2" 1/2 inches</b>						
140-17-02-30001	2" 1/2	63,50mm	3D=190,5mm	3mm	8,64mm	40,50Kg
<b>Set diameter 76,2mm Radius 228,6mm Diameter 3" inches</b>						
140-17-02-30002	3"	76,20mm	3D=228,6mm	3mm	7,21mm	80,68Kg

### ► Accessories for 3" 1/2 round pipes



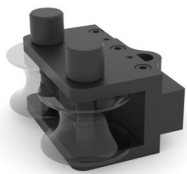
Rollers made of treated Steel. Suitable kit to bend 3" 1/2 tube of 4mm wall thickness or thicker. The following is supplied with the unit: A main roller, a clamp with a fastener, a support holder  
*Check with the manufacturer for other dimensions*  
*Supporting Roller Kit REF: 140-17-02-00002 is required*

REF.	Diam. Ext.	Diam. Ext.	Radius	Min. thickness	Max. thickness	Weight
<b>Set diameter 88,9mm Radius 266,7mm Diameter 3" 1/2 inches</b>						
140-17-02-30003	3" 1/2	88,9mm	3D=266,7mm	4mm	6,05mm	110,80Kg

## Accessories for Non-Mandrel Pipe Bender CC90

### ► Supporting Roller Kit CC90

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**REF:** 140-17-02-00002

The CC90 Supporting Roller Kit is used to bend:

- 90mm tube of 4mm wall thickness or thicker
- 3" Schedule tube of 3,05mm wall thickness or thicker
- 3" 1/2 tube of 4mm wall thickness or thicker.

**Weight:** 24,573 kg

\* The walls with more thickness to the established one and the materials with more resistance, reduce the capacities of the machine.

## Accessories for Non-Mandrel Pipe Bender CC90

### ► Accessories for square pipes in millimeters · 20 to 50 mm



Rollers made of treated Steel. Units suitable for bending all types of square pipes 20 to 50mm. The following is supplied with the unit: A main roller, a counter-shape, a clamp with a fastener  
*Check with the manufacturer for other dimensions*

REF.	Section	Radius	Min. thickness	Max. thickness	Weight
<b>Square Tube Die Set 20mm Radius 100mm</b>					
140-17-01-10101	20x20mm	5D=100mm	1,5mm	4mm	11,1Kg
<b>Square Tube Die Set 25mm Radius 115mm</b>					
140-17-01-10102	25x25mm	115mm	2mm	4mm	14,75Kg
<b>Square Tube Die Set 30mm Radius 135mm</b>					
140-17-01-10103	30x30mm	135mm	2mm	4mm	22Kg
<b>Square Tube Die Set 40mm Radius 165mm</b>					
140-17-01-10104	40x40mm	165mm	2mm	5mm	34,15Kg
<b>Square Tube Die Set 50mm Radio 180mm</b>					
140-17-02-10101	50x50mm	180mm	2,5mm	5mm	45,7Kg

### ► Accessories for square pipes in inches · 3/4" to 2" inches



Rollers made of treated Steel. Units suitable for bending all types of square pipes 3/4" to 2" inches. The following is supplied with the unit: A main roller, a counter-shape, a clamp with a fastener  
*Check with the manufacturer for other dimensions*

REF.	Section	Section	Radius	Radius	Min. Thick.	Max. Thick.	Weight
<b>Square Tube Die Set 3/4" (19,05mm) Radius 4" (101,6mm)</b>							
140-17-01-30101	3/4"x3/4"	19,05x19,05mm	4"	101,6mm	1,5mm	4mm	11,5Kg
<b>Square Tube Die Set 1" (25,4mm) Radius 4,5" (114,3mm)</b>							
140-17-01-30102	1"x1"	25,4x25,4mm	4" 1/2	114,3mm	2mm	4mm	14,6Kg
<b>Square Tube Die Set 1" 1/4 (31,75mm) Radius 5,5" (139,7mm)</b>							
140-17-01-30103	1" 1/4x1" 1/4	31,75x31,75mm	5" 1/2	139,7mm	2mm	4mm	23,3Kg
<b>Square Tube Die Set 1" 1/2 (38,1mm) Radius 6,5" (165,1mm)</b>							
140-17-01-30104	1" 1/2x1" 1/2	38,1x38,1mm	6" 1/2	165,1mm	2mm	5mm	34,6Kg
<b>Square Tube Die Set 1" 3/4 (44,45mm) Radius 6,75" (171,45mm)</b>							
140-17-02-30101	1" 3/4x1" 3/4	44,45x44,45mm	6" 3/4	171,45mm	2,5mm	5mm	39Kg
<b>Square Tube Die Set 2" (50,8mm) Radius 7" (177,8mm)</b>							
140-17-02-30102	2"x2"	50,8x50,8mm	7"	177,8mm	2,5mm	5mm	44Kg

## Accessories for Non-Mandrel Pipe Bender CC90

### ► Nargesa BEND8 aerosol lubricant

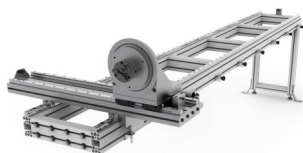


The CC90 pipe bender comes with a 400 ml bottle of BEND8 lubricant. This is a high-additive and low-viscosity aerosol oil. Contains PTFE. Does not contain silicone.

- Enables the finish on the outer bend
- Inhibits roughness and inner marks
- Reduces wear of the tooling
- Especially designed for tubes of small thickness
- Lubricates to reduce friction
- Avoids and dissolves corrosion
- Gives shine and protects
- Cleans up and removes dirt

REF.	Description	Quantity	Weight
060-SPR-00003	400 ml bottle	400ml	0,390 Kg
060-SPR-00004	Box of 12 400 ml bottles	12x400ml	4,830 Kg

### ► CC90 2-axis positioning gauge



The gauge of the CC90 allows to make mass produced parts, much faster, more accurate and repetitively.

- Adjustable longitudinal positioning with 6 positions
- Angular head rotation every 5 degrees
- Four-clamp plate adjustable to round and square tube
- Longitudinal movement with high precision linear guides
- Automatic anti-collision control
- Easy handling and preparation for difficult parts

REF.	Gauge length	Maximum capacity	Weight
140-17-02-50000	3000mm	60,3mm, 2" Schedule	135Kg

## Forging twisting machines

### ► Forging twisting machine MT150A

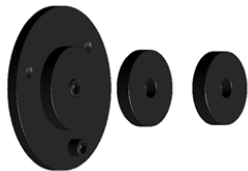
The twisting machine MT150A Nargesa was patented by Prada Nargesa many years ago. It makes us lead the manufacturing of this kind of machinery. It is made in a welded and mechanized Steel monoblock. It has been thought to transform cold iron. It is ideal for working all kind of ornamental pieces, handrails, scrolls, etc...

<b>Reference</b>	<b>100-01-02-001</b>
<b>Engine Power</b>	0,37 KW / 0,5 HP
<b>2 phased tension</b>	230 V Single phased
<b>Rotary speed</b>	Adjustable 0 to 9 r.p.m.
<b>Twisting maximum capacity</b>	20 mm or 3/4"
<b>Bending maximum capacity</b>	16 mm or 5/8"
<b>Max. Scrolling and bending in flat bar</b>	35x10 mm o 1 1/4"x3/8"
<b>Máx. continued scrolling length</b>	960 mm
<b>Dimensions</b>	2260x630x1120 mm
<b>Weight</b>	260 Kg



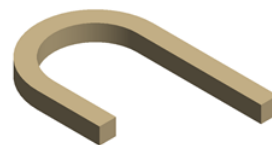
## Accessories for MT150A

### ► Flat bent rings



**Reference: 140-01-01-00001**

Steel Die to make round or square bent, the so called English railing.



Inner diameter	Max. Capacity	Weight
96, 100, 110 mm	Round or square 16 mm	10 Kg

### ► Belly top railing die



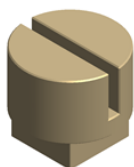
**Reference: 140-01-01-00002**

Steel Die to make the Belly Top Railing , used in balconies and windows.



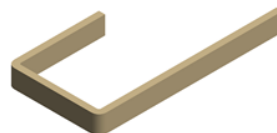
Inner diameter	Max. Capacity	Weight
225 mm	Round or square 16 mm	12 Kg

### ► Flat bar bent die



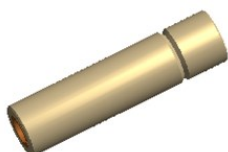
**Reference: 140-01-01-00003**

Treated Steel die for making flat bar folding operations, handrails or clods in all kinds. Folding with minimum external radius.



Max. Capacity	Weight
40x10 mm flat bar	3,1 Kg

### ► Edge scrolls



**Reference: 140-01-01-00004**

Treated steel Die to make scrolls or edge spirals in order to give it a different styling touch, it's commonly used in some specific countries.



Max. capacity	Weight
Round or square 16 mm	0,75 Kg

## Accessories for MT150A

### ► Baskets tooling



**Reference: 140-01-01-00005**

Tooling to make all kinds of baskets, in different sizes for square or round bars.

Available tooling for millimeter and inch square sizes



Max. Capacity.	Weight
4 square or round 10 mm	45 Kg

## Forging twisting machines

### ► Forging twisting machine MT500A

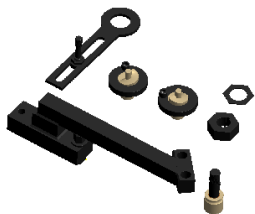
The twisting machine MT500A Nargesa was patented by Prada Nargesa many years ago. It makes us lead the manufacturing of this kind of machinery. It is made in a welded and mechanized Steel monoblock. It has been thought to transform cold iron. It is ideal for working all kind of ornamental pieces, handrails, scrolls, etc...

<b>Reference</b>	<b>100-01-03-001</b>
<b>Engine Power</b>	4 KW / 5,5 HP
<b>Three-phased tension</b>	230 / 400 V
<b>Rotary speed</b>	Adjustable 0 to 10 r.p.m.
<b>Twisting maximum capacity</b>	40 mm or 1 3/8"
<b>Bending maximum capacity</b>	25 mm or 1"
<b>Max. Scrolling and bending in flat bar</b>	50x10 mm or 2"x3/8"
<b>Máx. continued scrolling length</b>	1.620 mm
<b>Dimensions</b>	2220x980x1280 mm
<b>Weight</b>	1350 Kg



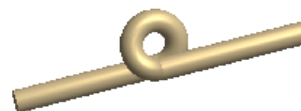
## Accessories for MT500A

### ► Double eyed tooling



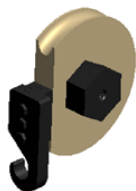
**Reference: 140-01-03-00001**

Tooling to make the folding commonly called "pig's tail" it's very used in balconies, handrails and many ornamental utilities.



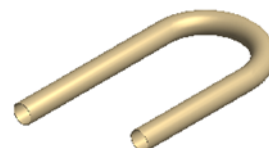
Max. Capacity	Weight
16 mm round	35 Kg

### ► Bent pipe die up to 180°



**Reference: 140-01-03-00002**

Steel die to make curves in pipes with fixed and adjustable radius to different degrees.



Pipe max. diameter	Pipe min. thickness	Piece radius	Degrees	Weight
40 mm	3 mm	3 x pipe diam.	Max.180 degrees	15/35 Kg

### ► Belly top railing



**Reference: 140-01-03-00003**

Steel die to make Belly top railing commonly used in balconies and windows.



Inner diameter	Max. Capacity	Weight
225 mm	Round or square 16 mm	12 Kg

### ► Oval scrolls die



**Reference: 140-01-03-00004**

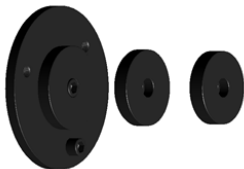
Steel die to make oval scrolls for all kind of railings.



Outer diemeter	Max. Capacity	Weight
240x190 mm	Round or square de 16 mm	11 Kg

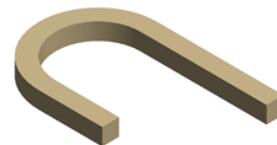
## Accessories for MT500A

### ► Flat bent rings



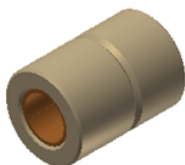
**Reference: 140-01-03-00005**

Steel die to mke folding operations in round or square bars such as the so called English railings.



Inner diameter	Max. Capacity	Weight
96, 100, 110 mm	Round or square 16 mm	10 Kg

### ► Edge scrolls die



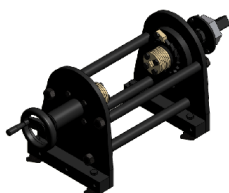
**Reference: 140-01-03-00006**

Treated Steel bar to make scrolls or edge spirals in order to give it a different styling touch, it is very used in specific countries.



Max. Capacity	Weight
Round or square 25 mm	0,400 Kg

### ► Baskets tooling



**Reference: 140-01-03-00012**

Tooling to make all kinds of baskets, different sizes in square or round bars.

Available tooling for millimeter and inch square sizes



Max. Capacity	Weight
4 square or round de 12 mm	55 Kg

## End Forging Machines

### ► End forgin machine PC16

The End Hot Wrought Machine Nargesa PC16, eases up the rolling job of hot steel. It rolls up the snail forged shaped end. This decorations are commonly used as extremes in scrolls and decorative parts. Gates, windows, fencing, metal furniture, etc...

<b>Reference</b>	<b>100-15-01-001</b>
<b>Engine power</b>	2,2 KW / 3HP
<b>Three phased tensión</b>	230/400 V
<b>Maximum capacity in round</b>	20 mm
<b>Maximum capacity in square</b>	20 mm
<b>Maximum capacity in flat bar</b>	50x10 mm
<b>Working speed</b>	45 mm/s
<b>Return speed</b>	70 mm/s
<b>Cycle time</b>	10 s
<b>Pieces per minute</b>	4 pieces
<b>Dimensions</b>	1350x620x1120mm
<b>Weight</b>	310Kg



### ► Wwrought iron machine NF70

The Wrought iron Machine Nargesa NF70 smashes and molds irons up to obtaining the desired shape depending on the mold design. It forges arrow ends or lances of different kinds; flat, pyramidal, etc. It also makes baluster extremes to accomplish nice ornamental parts by changing the die. It forges and smashes balusters in the middle to make different designs.

<b>Reference</b>	<b>100-12-02-001</b>
<b>Engine power</b>	5,5 KW / 7HP
<b>Three phased tensión</b>	230/400 V
<b>Maximum capacity in round</b>	20 mm
<b>Maximum capacity in square</b>	20 mm
<b>Maximum capacity in flat bar</b>	40x10 mm
<b>Rotation speed</b>	20 rpm a 50Hz
<b>Dimensions</b>	1000x1260x1240mm
<b>Weight</b>	450Kg



## Accessories for End Forging Machine NF70

### ► Set of special rollers



**Reference: 140-12-02-00001**

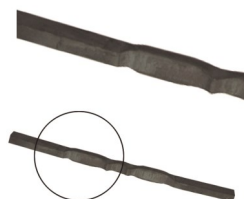
We design and manufacture all kind of special rollers under request.

### ► Set of trilobular rollers



**Reference: 140-12-02-00003**

Set of trilobular rollers to emboss decoration in the middle of a baluster.



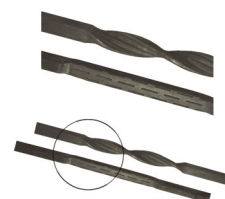
Units per set	Maximum capacity	Maximum capacity	Weight
2	Round and square 20mm	Rectangular 50x10mm	4,2 Kg

### ► Set of triple middle marking rollers



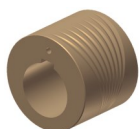
**Reference: 140-12-02-00004**

Set of excentric rollers to emboss the middle of balusters. Triple design, flat, striped and discontinuous in the same roller.



Units per set	Maximum capacity	Maximum capacity	Weight
2	Round and square 20mm	Rectangular 50x10mm	8,5 Kg

### ► Set of fishtail roller



**Reference: 140-12-02-00005**

Two-grooved roller, one for big diameters and the other one for smaller diameters.



Units per set	Maximum capacity	Maximum capacity	Weight
1	Round and square 20mm	Rectangular 50x10mm	7,7 Kg

## Iron embossing machine

### ► Iron embossing machine NOA60

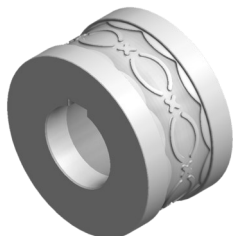
The purpose of NOA60 Nargesa is to conform and emboss designs on cold flat bars, square bars and square pipes. The shape and the design of the job will depend on the rollers used.

<b>Reference</b>	<b>100-11-01-002</b>
<b>Engine power</b>	5,5 KW / 7,5 HP
<b>Three-phased tension</b>	230 / 400 V
<b>Power consumption</b>	22/12 A
<b>Nominal working speed</b>	20 r.p.m. to 50 Hz
<b>Max. on square pipe</b>	60 mm or 2" 1/2
<b>Max. on square bar</b>	20 mm or 3/4"
<b>Max. on handrail or flat bar</b>	60x10 mm or 2"x3/8
<b>Dimensions</b>	1310x1190x1480 mm
<b>Weight</b>	690 Kg



## Accessories for Iron embossing machine NOA60

### ► Embossing roller 01

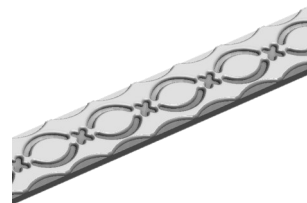


**Reference: 140-11-01-00001.40**

Roller to emboss a 40 mm or 1"-1/2 inches handrail

Guide 140-11-01-00401 or 140-11-01-00402 is required

*Ask the manufacturer about different dimensions*



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,5 Kg

### ► Embossing roller 02

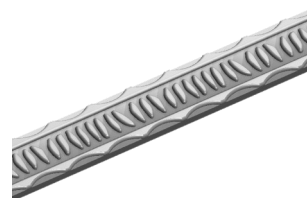


**Reference: 140-11-01-00002.40**

Roller to emboss a 40 mm or 1"-1/2 inches handrail

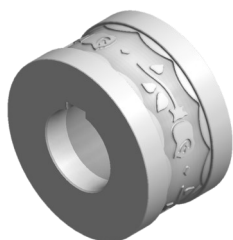
Guide 140-11-01-00401 or 140-11-01-00402 is required

*Ask the manufacturer about different dimensions*



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,5 Kg

### ► Embossing roller 03

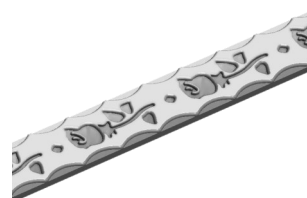


**Reference: 140-11-01-00003.40**

Roller to emboss a 40 mm or 1"-1/2 inches handrail

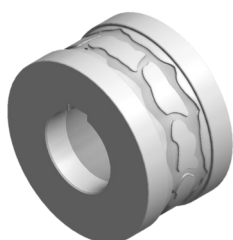
Guide 140-11-01-00401 or 140-11-01-00402 is required

*Ask the manufacturer about different dimensions*



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,5 Kg

### ► Embossing roller 04

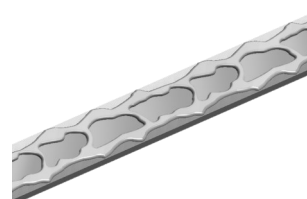


**Reference: 140-11-01-00004.40**

Roller to emboss a 40 mm or 1"-1/2 inches handrail

Guide 140-11-01-00401 or 140-11-01-00402 is required

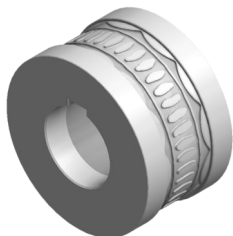
*Ask the manufacturer about different dimensions*



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,5 Kg

## Accessories for Iron embossing machine NOA60

### ► Embossing roller 05

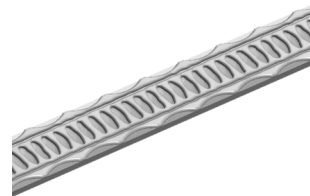


**Reference: 140-11-01-00005.40**

Roller to emboss a 40 mm or 1"-1/2 inches handrail

Guide 140-11-01-00401 or 140-11-01-00402 is required

*Ask the manufacturer about different dimensions*



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,5 Kg

### ► Embossing roller 06



**Reference: 140-11-01-00006.40**

Roller to emboss a 40 mm or 1"-1/2 inches handrail

Guide 140-11-01-00401 or 140-11-01-00402 is required

*Ask the manufacturer about different dimensions*



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,5 Kg

### ► Embossing roller 07



**Reference: 140-11-01-00007.40**

Roller to emboss a 40 mm or 1"-1/2 inches handrail

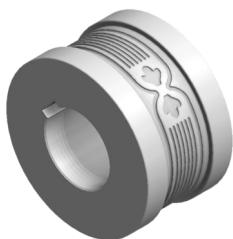
Guide 140-11-01-00401 or 140-11-01-00402 is required

*Ask the manufacturer about different dimensions*



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,5 Kg

### ► Embossing roller 08



**Reference: 140-11-01-00008.40**

Roller to emboss a 40 mm or 1"-1/2 inches handrail

Guide 140-11-01-00401 or 140-11-01-00402 is required

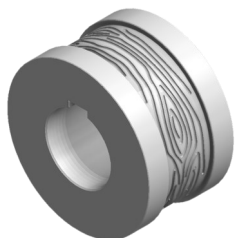
*Ask the manufacturer about different dimensions*



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,5 Kg

## Accessories for Iron embossing machine NOA60

### ► Embossing roller 09

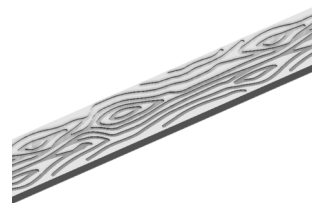


**Reference: 140-11-01-00009**

Roller to emboss handrail up to 60 mm

Guide 140-11-01-00401, 140-11-01-00402 or 140-11-01-00400 is required

*Ask the manufacturer about different dimensions*



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,1 Kg

### ► Embossing roller 10



**Reference: 140-11-01-00010.40**

Roller to emboss a 40 mm or 1"-1/2 inches handrail

Guide 140-11-01-00401 or 140-11-01-00402 is required

*Ask the manufacturer about different dimensions*



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,5 Kg

### ► Embossing roller 11

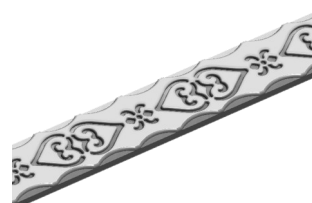


**Reference: 140-11-01-00011.40**

Roller to emboss a 40 mm or 1"-1/2 inches handrail

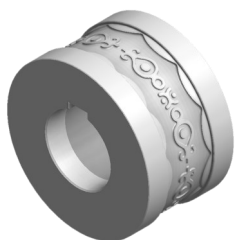
Guide 140-11-01-00401 or 140-11-01-00402 is required

*Ask the manufacturer about different dimensions*



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,5 Kg

### ► Embossing roller 12



**Reference: 140-11-01-00012.40**

Roller to emboss a 40 mm or 1"-1/2 inches handrail

Guide 140-11-01-00401 or 140-11-01-00402 is required

*Ask the manufacturer about different dimensions*



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,5 Kg

## Accessories for Iron embossing machine NOA60

### ► Embossing roller 13

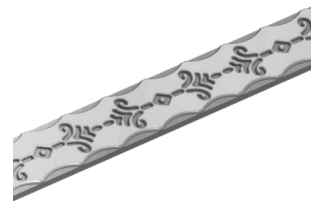


**Reference: 140-11-01-00013.40**

Roller to emboss a 40 mm or 1"-1/2 inches handrail

Guide 140-11-01-00401 or 140-11-01-00402 is required

*Ask the manufacturer about different dimensions*



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,5 Kg

### ► Embossing roller 14



**Reference: 140-11-01-00014.40**

Roller to emboss a 40 mm or 1"-1/2 inches handrail

Guide 140-11-01-00401 or 140-11-01-00402 is required

*Ask the manufacturer about different dimensions*



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,5 Kg

### ► Embossing roller 15

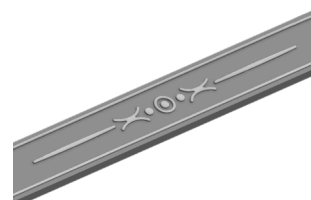


**Reference: 140-11-01-00015.40**

Roller to emboss a 40 mm or 1"-1/2 inches handrail

Guide 140-11-01-00401 or 140-11-01-00402 is required

*Ask the manufacturer about different dimensions*



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,4 Kg

### ► Embossing roller 16



**Reference: 140-11-01-00016.40**

Roller to emboss a 40 mm or 1"-1/2 inches handrail

Guide 140-11-01-00401 or 140-11-01-00402 is required

*Ask the manufacturer about different dimensions*



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,4 Kg

## Accessories for Iron embossing machine NOA60

### ► Embossing roller 17



**Reference: 140-11-01-00017.40**

Roller to emboss a 40 mm or 1"-1/2 inches handrail

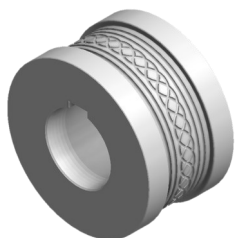
Guide 140-11-01-00401 or 140-11-01-00402 is required

*Ask the manufacturer about different dimensions*



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,4 Kg

### ► Embossing roller 18

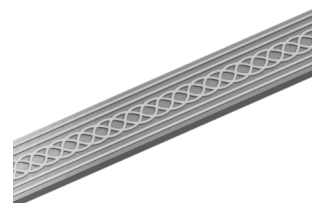


**Reference: 140-11-01-00018.40**

Roller to emboss a 40 mm or 1"-1/2 inches handrail

Guide 140-11-01-00401 or 140-11-01-00402 is required

*Ask the manufacturer about different dimensions*



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,4 Kg

### ► Embossing roller 19



**Reference: 140-11-01-00019.40**

Roller to emboss a 40 mm or 1"-1/2 inches handrail

Guide 140-11-01-00401 or 140-11-01-00402 is required

*Ask the manufacturer about different dimensions*



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,4 Kg

### ► Embossing roller 20

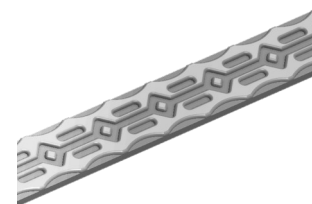


**Reference: 140-11-01-00020.40**

Roller to emboss a 40 mm or 1"-1/2 inches handrail

Guide 140-11-01-00401 or 140-11-01-00402 is required

*Ask the manufacturer about different dimensions*



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,5 Kg

## Accessories for Iron embossing machine NOA60

### ► Embossing roller 21

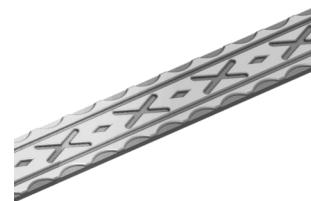


**Reference: 140-11-01-00021.50**

Roller to emboss a 50 mm or 2" inches handrail

Guide 140-11-01-00401 or 140-11-01-00402 is required

*Ask the manufacturer about different dimensions*



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,4 Kg

### ► Embossing roller 22



**Reference: 140-11-01-00022.40**

Roller to emboss a 40 mm or 1"-1/2 inches handrail

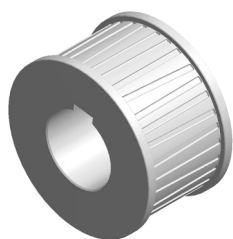
Guide 140-11-01-00401 or 140-11-01-00402 is required

*Ask the manufacturer about different dimensions*



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,4 Kg

### ► Embossing roller 23

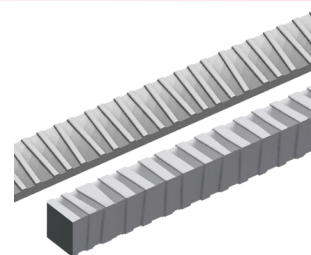


**Reference: 140-11-01-00023**

Roller to emboss handrail up to 60 mm

Guide 140-11-01-00401, 140-11-01-00402, 140-11-01-00400 or 140-11-01-00300 is required

*Ask the manufacturer about different dimensions*



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6 Kg

### ► Embossing roller 24



**Reference: 140-11-01-00024.40**

Roller to emboss a 40 mm or 1"-1/2 inches handrail

Guide 140-11-01-00401 or 140-11-01-00402 is required

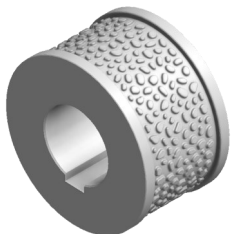
*Ask the manufacturer about different dimensions*



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,4 Kg

## Accessories for Iron embossing machine NOA60

### ► Embossing roller 25

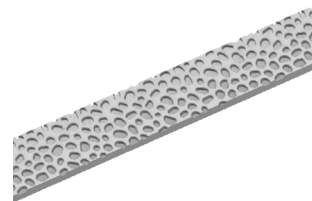


**Reference: 140-11-01-00025**

Roller to emboss handrail up to 60 mm

Guide 140-11-01-00401, 140-11-01-00402 or 140-11-01-00400 is required

*Ask the manufacturer about different dimensions*



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,3 Kg

### ► Roller for the side marking of flat bar

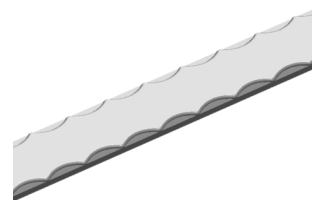


**Reference: 140-11-01-00028**

Sectioned roller to emboss different flat bar sizes on the same kit. Adjustable to flat bars of 25mm o 1", 30mm o 1" 1/4, 40mm o 1" 1/2 and 50mm o 2".

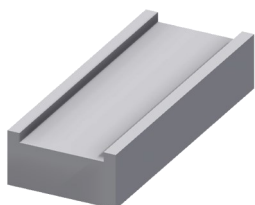
Guide 140-11-01-00401, 140-11-01-00402, 140-11-01-00403 or 140-11-01-00404 is required

*Ask the manufacturer about different dimensions*



Units per machine	Material thickness	Weight
1	From 5 to 12mm	12,5 Kg

### ► Entrance guide for 60 mm handrail

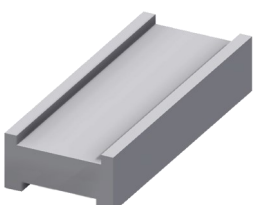


**Reference: 140-11-01-00400**

Entrance guide for 60 mm handrail.

**Weight: 4,3 Kg**

### ► Entrance guide for 40 and 50 mm handrail



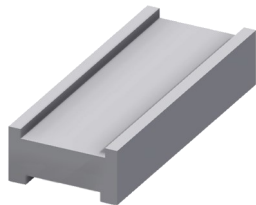
**Ref: 140-11-01-00401**

Inlet guide for 40 and 50 mm handrail

**Weight: 4 Kg**

## Accessories for Iron embossing machine NOA60

### ► Entrance guide for 1" 1/2 y 2" inches handrail

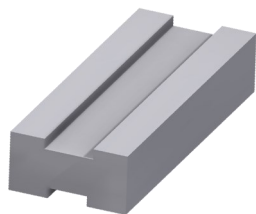


**Ref: 140-11-01-00402**

Inlet guide for 1" 1/2 and 2" inches handrail.

**Weight:** 4 Kg

### ► Entrance guide for 25 and 30mm handrail

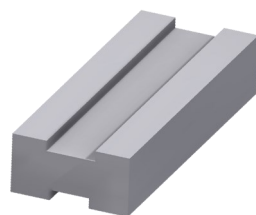


**Ref: 140-11-01-00403**

Inlet guide for 25 and 30 mm handrail.

**Weight:** 4,3 Kg

### ► Entrance guide for 1" and 1" 1/4 inches handrail



**Ref: 140-11-01-00404**

Inlet guide for 1" and 1" 1/4 inches handrail.

**Weight:** 4,3 Kg

### ► Rollerstand



**Ref: 140-00-00-00004**

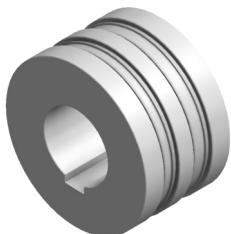
Seven-rollers stand

*Ask the manufacturer about different dimensions*

Working Height	Dimensions	Load capacity	Weight
650 / 1200 mm	2050x470 mm	800 Kg	65 Kg

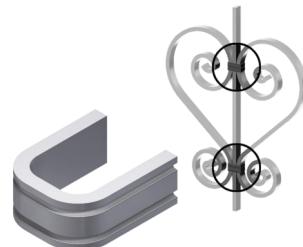
## Accessories for Iron embossing machine NOA60

### ► Embossing roller 201



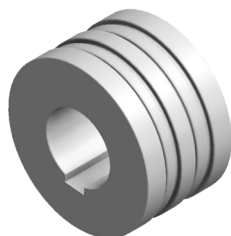
**Reference: 140-11-01-00201**

Roller to emboss 12 and 15 mm or 1/2 inch handrail.  
For clamp forming  
Guide 140-11-01-00200 is required  
*Ask the manufacturer about different dimensions*



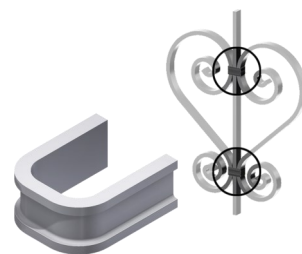
Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,5 Kg

### ► Embossing roller 202



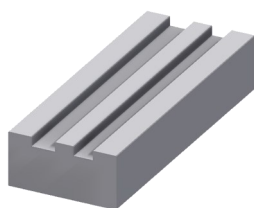
**Reference: 140-11-01-00202**

Roller to emboss 12 and 15 mm or 1/2 inch handrail.  
For clamp forming  
Guide 140-11-01-00200 is required  
*Ask the manufacturer about different dimensions*



Units per machine	Material thickness	Weight
1	From 6 to 10mm	6,6 Kg

### ► Entrance guide for 12mm or 1/2" inch and 15 mm handrail

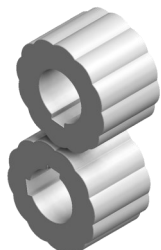


**Reference: 140-11-01-00200**

Entrance guide for 12 mm and 15 mm or 1/2" inch handrail  
**Weight: 4,6 Kg**

## Accessories for Iron embossing machine NOA60

### ► Set of embossing rollers 26



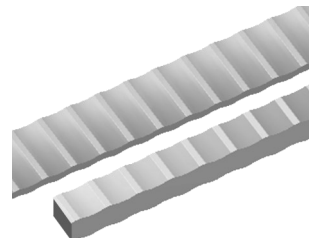
**Reference: 140-11-01-00026**

Rollers to emboss handrail up to 60 mm and square bar up to 20 mm or 3/4" inch

Guide 140-11-01-00401, 140-11-01-00402, 140-11-01-00400 or 140-11-01-00300 is required

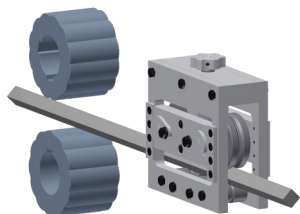
To emboss edge square bar, an entrance guide is required 140-11-01-00027

*Ask the manufacturer about different dimensions*



Set per machine	Material thickness	Weight
1	—	11,4 Kg

### ► Entrance guide for edge square bar

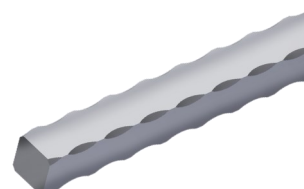


**Reference: 140-11-01-00027**

Entrance guide to emboss edge square bar up to 20mm or 3/4" inch

Set of embossing rollers 140-11-01-00026 is required

**Weight: 18 Kg**



### ► Set of embossing rollers 302



**Reference: 140-11-01-00302**

Rollers to emboss square bar up to 12 mm or 1/2", 16 mm or 5/8" and 18 mm.

Guide 140-11-01-00300 is required

*Ask the manufacturer about different dimensions*



Set per machine	Material thickness	Weight
1	—	12,6 Kg

### ► Set of embossing rollers 301

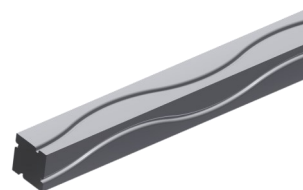


**Reference: 140-11-01-00301**

Rollers to emboss square bar up to 10 mm or 3/8", 14 mm or 9/16" and 20 mm or 3/4" inch

Guide 140-11-01-00300 is required

*Ask the manufacturer about different dimensions*



Set per machine	Material thickness	Weight
1	—	12,6 Kg

## Accessories for Iron embossing machine NOA60

### ► Set of embossing rollers 303

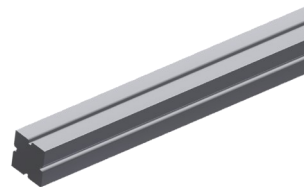


**Reference: 140-11-01-00303**

Rollers to emboss square bar up to 10 mm or 3/8", 14 mm or 9/16" and 20 mm or 3/4" inch

Guide 140-11-01-00300 is required

*Ask the manufacturer about different dimensions*



Units per machine	Material thickness	Weight
1	—	12,9 Kg

### ► Set of embossing rollers 304

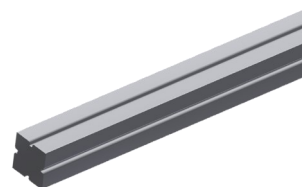


**Reference: 140-11-01-00304**

Rollers to emboss square bar up to 12 mm or 1/2", 16 mm or 5/8" and 18 mm.

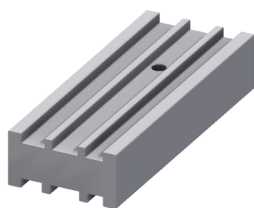
Guide 140-11-01-00300 is required

*Ask the manufacturer about different dimensions*



Units per machine	Material thickness	Weight
1	—	12,9 Kg

### ► Entrance guide for square bar



**Reference: 140-11-01-00300**

Entrance guide for square bar of 10mm or 3/8", 12mm or 1/2", 14mm or 9/16", 16mm or 5/8", 18mm and 20 mm or 3/4" inch

**Weight: 4 Kg**

## Accessories for Iron embossing machine NOA60

- Set of embossing rollers for 25 mm or 1", 30 mm or 1" 1/4, 35 and 40 mm pipes



**Ref: 140-11-01-00500**

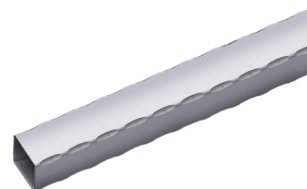
*Set of sectioned rollers to emboss different square or rectangular pipe sizes with the same set. Adjustable to the following pipes:*

**Square pipes:** 25mm or 1", 30mm or 1" 1/4, 35 and 40mm

**Rectangular pipes:** 25x20mm or 1"x3/4", 30x20mm or 1"1/4x3/4", 30x25mm, 35x20mm, 35x25mm, 40x20mm, 40x25mm, 40x30mm, 40x35mm

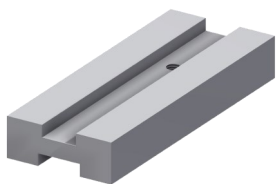
Guide 140-11-01-00501 or 140-11-01-00502 is required

*Ask the manufacturer about different dimensions*



Set per machine	Material minimum thickness suggested by manufacturer	Weight
1	3 mm	12 Kg

- Inlet guide for 25 mm or 1" and 30 mm or 1" 1/4 Pipe

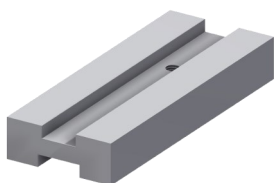


**Ref: 140-11-01-00501**

Inlet guide for 25 mm or 1" and 30 mm or 1" 1/4 pipe

**Weight:** 3 Kg

- Inlet guide for 35 and 40 mm pipe



**Ref: 140-11-01-00502**

Inlet guide for 35 and 40 mm pipe

**Weight:** 2,8 Kg

## Accessories for Iron embossing machine NOA60

### ► Set of embossing rollers for 50 and 60mm pipes



**Ref: 140-11-01-00503**

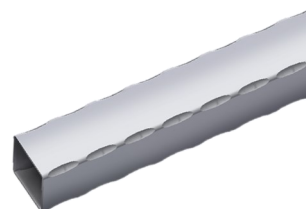
*Set of sectioned rollers to emboss different square or rectangular pipe sizes with the same set. Adjustable to the following pipes:*

**Square pipes:** 50mm or 60mm

**Rectangular pipes:** 50x20mm, 50x25mm, 50x30mm, 50x35mm, 50x40mm, 50x45mm, 60x20mm, 60x25mm, 60x30mm, 60x35mm, 60x40mm, 60x45mm, 60x50mm or 60x55mm

Guide 140-11-01-00505 or 140-11-01-00506 is required

*Ask the manufacturer about different dimensions*



Set per machine	Material minimum thickness suggested by manufacturer	Weight
1	3 mm	6 Kg

### ► Inlet guide for 50 mm pipe



**Ref: 140-11-01-00505**

Inlet guide for 50 mm pipe

**Weight:** 2,4 Kg

### ► Inlet guide for 60 mm pipe



**Ref: 140-11-01-00506**

Inlet guide for 60 mm pipe

**Weight:** 2,2 Kg

## Accessories for Iron embossing machine NOA60

### ► Set of embossing rollers for 1" 1/2, 2" and 2" 1/2 inches pipes



**Ref: 140-11-01-00507**

*Set of sectioned rollers to emboss different square or rectangular pipe sizes with the same set. Adjustable to the following pipes:*

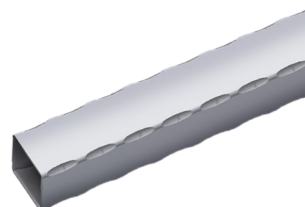
**Square pipes:** 1" 1/2, 2" and 2" 1/2 inches

**Rectangular pipes:** 1"1/2x3/4", 1"1/2x1", 2"x1", 2"x1"1/4, 2"x1"1/2, 2"1/2x1"1/2 inches

Guide 140-11-01-00508, 140-11-01-00509

or 140-11-01-00510 is required

*Ask the manufacturer about different dimensions*



Set per machine	Material minimum thickness suggested by manufacturer	Weight
1	3 mm	6 Kg

### ► Inlet guide for 1" 1/2 inches pipe



**Ref: 140-11-01-00508**

Inlet guide for 1" 1/2 inches pipe

**Weight:** 2,6 Kg

### ► Inlet guide for 2" inches pipe



**Ref: 140-11-01-00509**

Inlet guide for 2" inches pipe

**Weight:** 2,4 Kg

### ► Inlet guide for 2" 1/2 inches pipe



**Ref: 140-11-01-00510**

Inlet guide for 2" 1/2 inches pipe

**Weight:** 2,2 Kg

## Power hammer

### ► Power hammer MP60

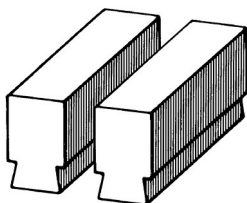
Power hammers or pile drivers MP60 Nargesa, are manufactured in welded and mechanized steel sheet. They are used in many blacksmith workshops to make all kinds of forging ornamental pieces which eases the job of moulding hot steel. Different tooling are used: for inlaying, moulding, cutting, piercing, rivetting, embossing, etc, in all kinds of metals.

<b>Reference</b>	<b>100-14-03-001</b>
<b>Engine power</b>	5.5 KW / 7,5 HP
<b>Nominal dropping weight</b>	60Kg
<b>Strokes per minute</b>	220
<b>Strokes max. Displacement</b>	230 mm
<b>Max. round working capacity</b>	70 mm
<b>Max. square working capacity</b>	60x60 mm
<b>Dimensions</b>	900x1600x1600mm
<b>Weight</b>	1190 Kg



## Accessories for Power hammer

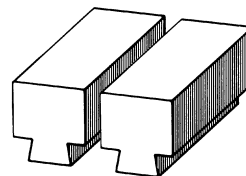
Reference 140-14-01-00001



Dimensions

120x60 mm

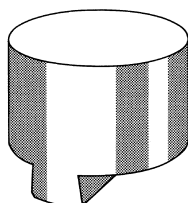
Reference 140-14-01-00002



Dimensions

160x80 mm

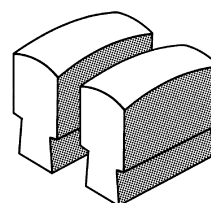
Reference 140-14-01-00003



Dimensions

Ø 200 mm

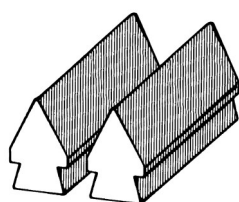
Reference 140-14-01-00004



Dimensions

100x60 mm

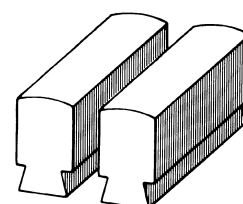
Reference 140-14-01-00005



Dimensions

120x60 mm

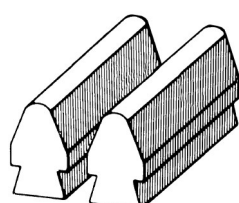
Reference 140-14-01-00006



Dimensions

120x60 mm

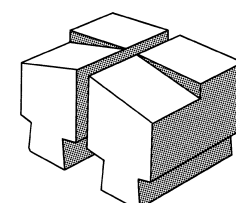
Reference 140-14-01-00007



Dimensions

120x60 mm

Reference 140-14-01-00008

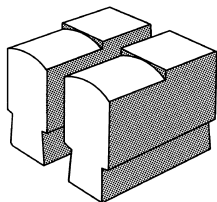


Dimensions

130x100 mm

## Accessories for Power hammer

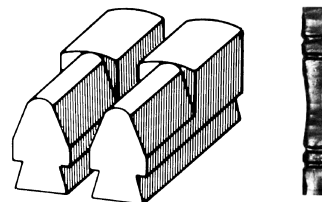
**Reference 140-14-01-00009**



**Dimensions**

120x60 mm

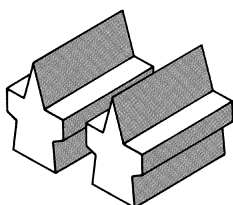
**Reference 140-14-01-00010**



**Dimensions**

120x60 mm

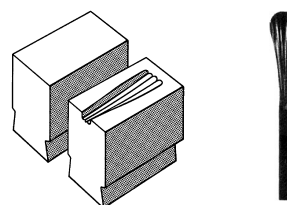
**Reference 140-14-01-00011**



**Dimensions**

L110 mm

**Reference 140-14-01-00012**



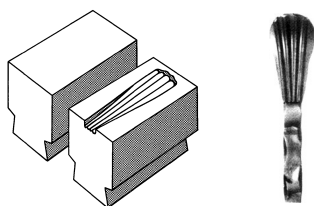
**Dimensions**

100x60 mm

**Capacity**

12x6 mm

**Reference 140-14-01-00013**



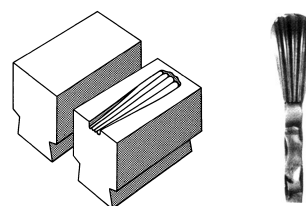
**Dimensions**

120x60 mm

**Capacity**

12 / Ø12 mm

**Reference 140-14-01-00014**



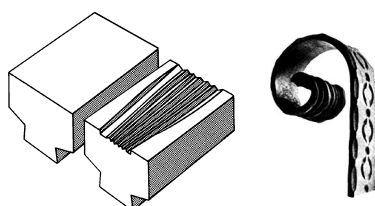
**Dimensions**

120x80 mm

**Capacity**

20x6 / 25x8 mm

**Reference 140-14-01-00015**



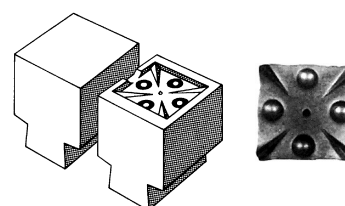
**Dimensions**

130x80 mm

**Capacity**

40x8 / 40x6 mm

**Reference 140-14-01-00016**



**Dimensions**

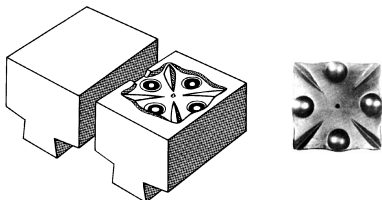
80x80 mm

**Capacity**

60x60 mm

## Accessories for Power hammer

Reference 140-14-01-00017



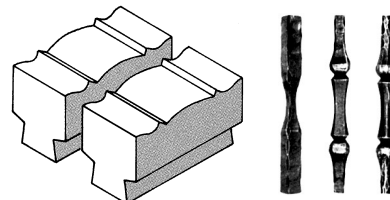
**Dimensions**

100x100 mm

**Capacity**

80x80 mm

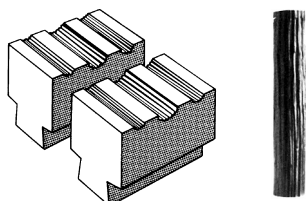
Reference 140-14-01-00018



**Dimensions**

160x80 mm

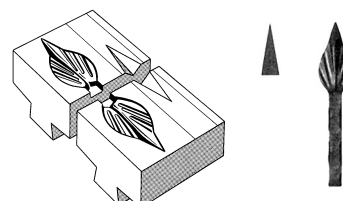
Reference 140-14-01-00019



**Dimensions**

130x80 mm

Reference 140-14-01-00020



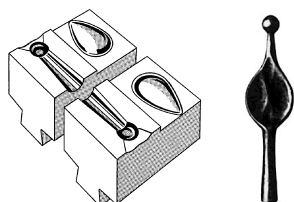
**Dimensions**

120x100 mm

**Capacity**

12x12 mm

Reference 140-14-01-00021



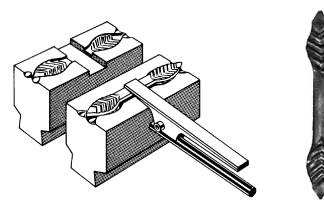
**Dimensions**

120x70 mm

**Capacity**

Ø14 mm

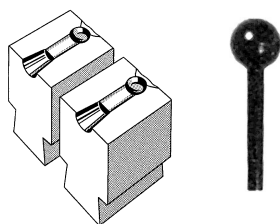
Reference 140-14-01-00022



**Dimensions**

135x60 mm

Reference 140-14-01-00023



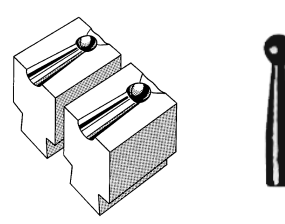
**Dimensions**

70x60 mm

**Capacity**

Ø16 mm

Reference 140-14-01-00024



**Dimensions**

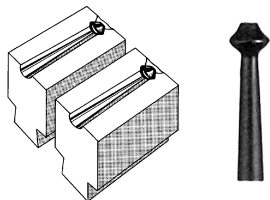
70x60 mm

**Capacity**

Ø16 mm / Ø16 mm

## Accessories for Power hammer

**Reference 140-14-01-00025**



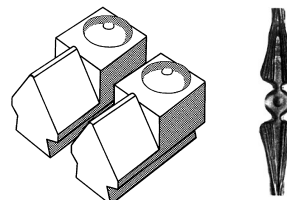
**Dimensions**

70x60 mm

**Capacity**

∅ 12 mm / Ø12 mm

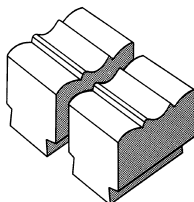
**Reference 140-14-01-00026**



**Dimensions**

120x60 mm

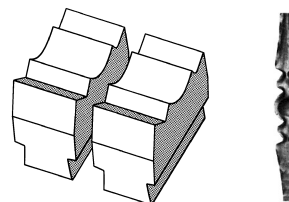
**Reference 140-14-01-00027**



**Dimensions**

100x60 mm

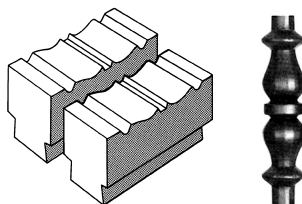
**Reference 140-14-01-00028**



**Dimensions**

130x60 mm

**Reference 140-14-01-00029**



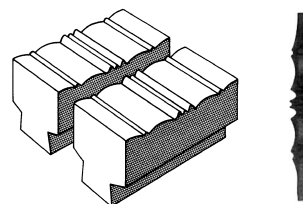
**Dimensions**

160x80 mm

**Capacity**

Ø40 mm

**Reference 140-14-01-00030**



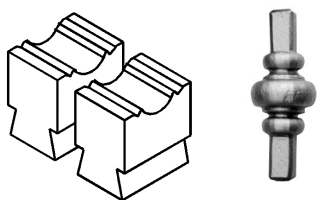
**Dimensions**

160x80 mm

**Capacity**

∅ 30 mm

**Reference 140-14-01-00031**



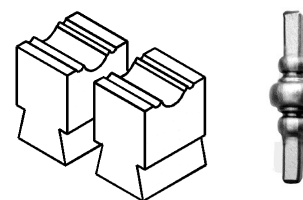
**Dimensions**

100x60 mm

**Capacity**

Ø40 mm

**Reference 140-14-01-00032**



**Dimensions**

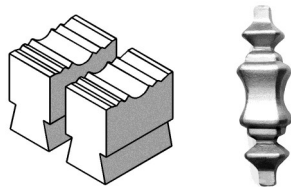
100x60 mm

**Capacity**

Ø30 mm

## Accessories for Power hammer

**Reference 140-14-01-00033**



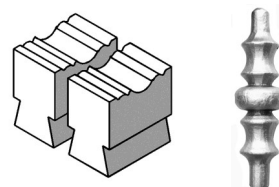
### Dimensions

160x80 mm

### Capacity

∅ 40 mm

**Reference 140-14-01-00034**



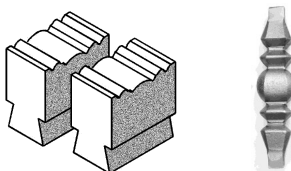
### Dimensions

150x60 mm

### Capacity

∅40 mm

**Reference 140-14-01-00035**



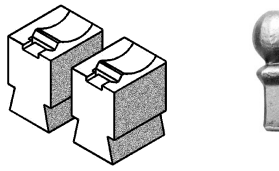
### Dimensions

180x80 mm

### Capacity

∅ 30 mm

**Reference 140-14-01-00036**



### Dimensions

100x60 mm

### Capacity

∅ 40 mm

**Reference 140-14-01-00037**



### Dimensions

120x60 mm

## Hydraulic press for locks

### ► Hydraulic press for locks PI85

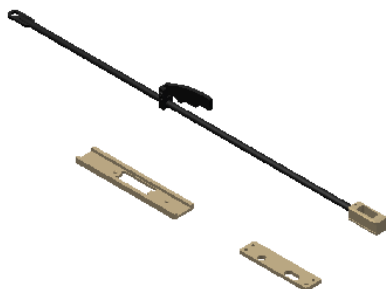
Hydraulic Press for locks PI85 Nargesa, is a NOVELTY in the locksmith's branch. It was patented by Nargesa from year 2006. It makes us lead this kind of machinery. It is suitable for 85% locks in the market, reagrding trademarks and models.

<b>Reference</b>	<b>100-07-01-001</b>
<b>Engine power</b>	0,75 KW / 1 HP
<b>Three-phased tension</b>	230 / 400 V
<b>Pipe thickness</b>	1,5 y 2mm
<b>Lock entrance</b>	Ajustable de 18 a 37mm
<b>Dimensions</b>	1500x570x1470mm
<b>Weight</b>	200 Kg



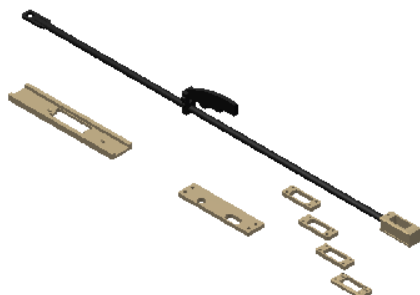
## Accessories for Hydraulic press for locks PI85

### ► Tooling for 35X35. Wall thickness 1,5mm



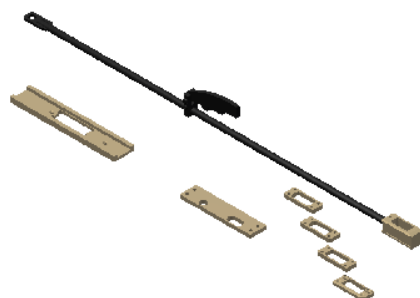
Reference	140-07-01-00001
Pipe	35 x 35 mm
Thickness	1,5 mm
Pieces by tooling	3 units
Weight	5 Kg

### ► Tooling for 40x40mm up to 40x80mm. Wall 1,5mm



Reference	140-07-01-00003
Pipe	40x40 mm, 40x50 mm, 40x60 mm, 40x70 mm, 40x80mm
Thickness	1,5 mm
Pieces by tooling	8 units
Weight	5,3 Kg

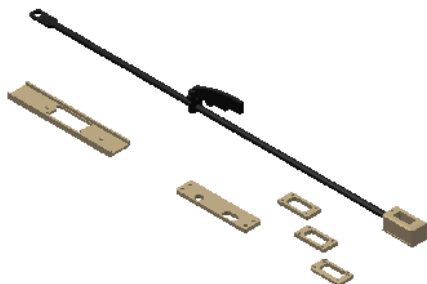
### ► Tooling for 40x40mm up to 40x80mm. Wall 2mm



Reference	140-07-01-00004
Pipe	40x40 mm, 40x50 mm, 40x60 mm, 40x70 mm, 40x80mm
Thickness	2 mm
Pieces by tooling	8 units
Weight	5,3 Kg

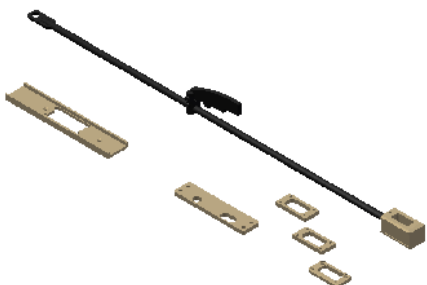
## Accessories for Hydraulic Press for locks PI85

- Tooling for 50x50mm up to 50x80mm. Wall 1,5mm



Reference	140-07-01-00005
Pipe	50x50 mm, 50x60 mm, 50x70 mm, 50x80mm
Thickness	1,5 mm
Pieces by tooling	7 units
Weight	5,5 Kg

- Tooling for 50x50 up to 50x80mm. Wall 2mm



Reference	140-07-01-00006
Pipe	50x50 mm, 50x60 mm, 50x70 mm, 50x80mm
Thickness	2 mm
Pieces by tooling	7 units
Weight	5,5 Kg

## Broaching machine

### ► Broaching machine BM25

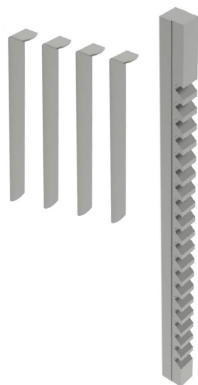
The Hydraulic Broaching machine BM25 Nargesa, has been manufactured in a welded and mechanized steel monoblock. It is a machine to make slots and broaching operations in all kinds of parts. Sprockets, belts, gears, etc... It is also used as a press to straighten and unbolting oxidated parts, set bearings...


<b>Reference</b>	<b>100-09-01-001</b>
<b>Motor power</b>	2,2 KW / 3 CV
<b>3-phased tensión</b>	230 / 400 V
<b>Hydraulic power</b>	10 Tm
<b>Working speed</b>	24 mm/s
<b>Return speed</b>	54 mm/s
<b>Pump Flow</b>	7,5 L
<b>Shank displacement</b>	600 mm
<b>Goosneck</b>	300 mm
<b>Maximum diameter of the piece</b>	600 mm*
<b>Bench dimensions</b>	420x420 mm
<b>Dimensions</b>	813x1225x2364 mm
<b>Weight</b>	820 Kg



\* For different sizes, please ask the manufacturer

## Accessories for the Broaching machine BM25

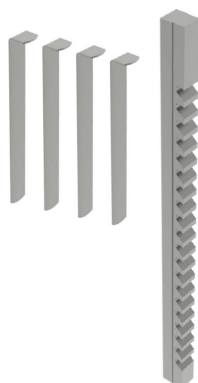



 Broaching time  
5:00 min.

### Keyway broaches 25mm

REF: 125-09-01-BR-00017

Tolerance	JS9 (-0,027 +0,013)
Model	F
Broach dimensions	25,40 x 514,35mm
Standard keys	25 x 14mm
Min./Max. Cutting length	25,4mm / 152,4mm
Required pressure	12.300lbs / 5.579,18Kg
Required shims/ Nr of passes	4 shims / 5 passes
Thickness	1,422mm
Bushing diameter	75, 80, 85, 90, 95, 100, 105, 110, 115 and 120mm
Bushing length	152,4mm
Weight	3,5 Kg. Approx.

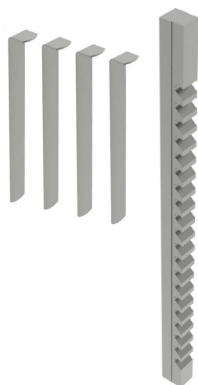



 Broaching time  
5:00 min.

### Keyway broaches 24mm

REF: 125-09-01-BR-00016

Tolerance	JS9 (-0,025 +0,015)
Model	F
Broach dimensions	25,40 x 514,35mm
Standard keys	24 x 14mm
Min./Max. Cutting length	25,4mm / 152,4mm
Required pressure	10.600lbs / 4.808,07Kg
Required shims/ Nr of passes	5 shims / 6 passes
Thickness	1,587mm
Bushing diameter	75, 80, 85, 90, 95, 100, 105, 110, 115 and 120mm
Bushing length	152,4mm
Weight	3,5 Kg. Approx.



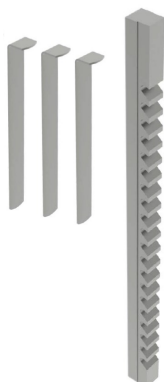
 Broaching time  
5:00 min.


### Keyway broaches 22mm

REF: 125-09-01-BR-00015

Tolerance	JS9 (-0,027 +0,014)
Model	F
Broach dimensions	25,40 x 514,35mm
Standard keys	22 x 14mm
Min./Max. Cutting length	25,4mm / 152,4mm
Required pressure	9.400lbs / 4.263,76Kg
Required shims/ Nr of passes	4 shims / 5 passes
Thickness	1,422mm
Bushing diameter	75, 80, 85, 90, 95, 100, 105, 110, 115 and 120mm
Bushing length	152,4mm
Weight	3,5 Kg. Approx.

## Accessories for the Broaching machine BM25

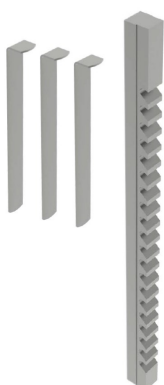



 Broaching time  
4:20 min.

### Keyway broaches 20mm

REF: 125-09-01-BR-00014

Tolerance	JS9 (-0,026 +0,015)
Model	F
Broach dimensions	25,40 x 514,35mm
Standard keys	20 x 12mm
Min./Max. Cutting length	25,4mm / 152,4mm
Required pressure	8.800lbs / 3.991,61Kg
Required shims/ Nr of passes	3 shims / 4 passes
Thickness	1,587mm
Bushing diameter	75, 80, 85, 90, 95, 100, 105, 110, 115 and 120mm
Bushing length	152,4mm
Weight	3,5 Kg. Approx.

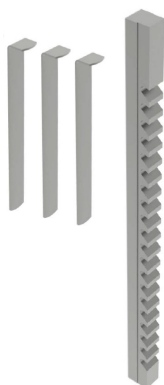



 Broaching time  
3:40 min.

### Brochas de 18mm

REF: 125-09-01-BR-00013

Tolerance	JS9 (-0,022 +0,013)
Model	E
Broach dimensions	19,05 x 393,7mm
Standard keys	18 x 11mm
Min./Max. Cutting length	25,4mm / 152,4mm
Required pressure	10.600lbs / 4.808,07Kg
Required shims/ Nr of passes	3 shims / 4 passes
Thickness	1,422mm
Bushing diameter	52, 54, 55, 56, 58, 60, 62, 63, 64, 65, 66, 68, 70 and 72mm
Bushing length	127 and 152,4mm
Weight	1,5 Kg. Approx.



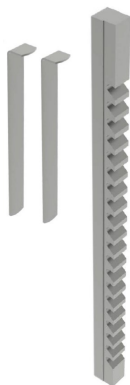
 Broaching time  
3:40 min.

### Brochas de 16mm

REF: 125-09-01-BR-00012

Tolerance	JS9 (-0,024 +0,012)
Model	E
Broach dimensions	19,05 x 393,7mm
Standard keys	16 x 10mm
Min./Max. Cutting length	25,4mm / 152,4mm
Required pressure	9.400lbs / 4.263,76Kg
Required shims/ Nr of passes	3 shims / 4 passes
Thickness	1,422mm
Bushing diameter	52, 54, 55, 56, 58, 60, 62, 63, 64, 65, 66, 68, 70 and 72mm
Bushing length	127 and 152,4mm
Weight	1,5 Kg. Approx.

## Accessories for the Broaching machine BM25

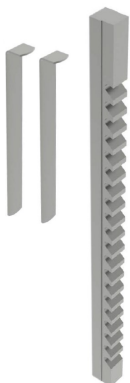


Broaching time

### Keyway broaches 14mm

REF: 125-09-01-BR-00011

Tolerance	JS9 (-0,023 +0,013)
Model	D
Broach dimensions	14,28 x 352,42mm
Standard keys	14 x 9mm
Min./Max. Cutting length	25,4mm / 152,4mm
Required pressure	11.100lbs / 5.034,87Kg
Required shims/ Nr of passes	2 shims / 3 passes
Thickness	1,587mm
Bushing diameter	32, 34, 35, 36, 38, 40, 42, 44, 45, 46, 48, 50, 52, 54 and 56mm
Bushing length	101,6 and 127mm
Weight	1 Kg. Approx.

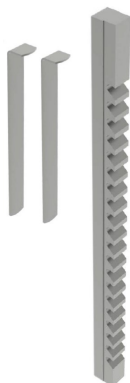


Broaching time  
2:30 min.

### Keyway broaches 12mm

REF: 125-09-01-BR-00010

Tolerance	JS9 (-0,022 +0,014)
Model	D
Broach dimensions	14,28 x 352,42mm
Standard keys	12 x 8mm
Min./Max. Cutting length	25,4mm / 152,4mm
Required pressure	8.400lbs / 3.810,17Kg
Required shims/ Nr of passes	2 shims / 3 passes
Thickness	1,422mm
Bushing diameter	32, 34, 35, 36, 38, 40, 42, 44, 45, 46, 48, 50, 52, 54 and 56mm
Bushing length	101,6 and 127mm
Weight	1 Kg. Approx.



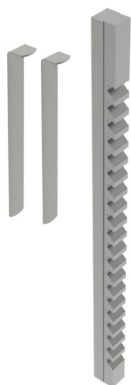
Broaching time  
2:30 min.


### Keyway broaches 10mm

REF: 125-09-01-BR-00009

Tolerance	JS9 (-0,018 +0,012)
Model	D
Broach dimensions	14,28 x 352,42mm
Standard keys	10 x 8mm
Min./Max. Cutting length	25,4mm / 152,4mm
Required pressure	6.500lbs / 2.948,35Kg
Required shims/ Nr of passes	2 shims / 3 passes
Thickness	1,422mm
Bushing diameter	32, 34, 35, 36, 38, 40, 42, 44, 45, 46, 48, 50, 52, 54 and 56mm
Bushing length	101,6 and 127mm
Weight	1 Kg. Approx.

## Accessories for the Broaching machine BM25

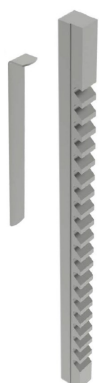



 Broaching time  
**2:30 min.**

### Keyway broaches 8mm

**REF: 125-09-01-BR-00008**

Tolerance	JS9 (-0,017 +0,013)
Model	C
Broach dimensions	9,52 x 298,45mm
Standard keys	8 x 7mm
Min./Max. Cutting length	9,921mm / 63,5mm
Required pressure	3.680lbs / 1.669,22Kg
Required shims/ Nr of passes	2 shims / 3 passes
Thickness	1,27mm
Bushing diameter	18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 34, 35 and 36mm
Bushing length	63,5mm
Weight	0,350 Kg. Approx.

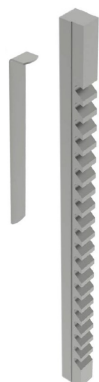



 Broaching time  
**1:20 min.**

### Keyway broaches 6mm

**REF: 125-09-01-BR-00006**

Tolerance	JS9 (-0,016 +0,009)
Model	C
Broach dimensions	9,52 x 298,45mm
Standard keys	6 x 6mm
Min./Max. Cutting length	9,921mm / 63,5mm
Required pressure	2.100lbs / 952,54Kg
Required shims/ Nr of passes	1 shim / 2 passes
Thickness	1,587mm
Bushing diameter	18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 34, 35 and 36mm
Bushing length	63,5mm
Weight	0,350 Kg. Approx.



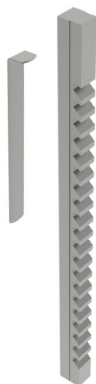
 Broaching time  
**1:20 min.**


### Keyway broaches 5mm

**REF: 125-09-01-BR-00005**

Tolerance	JS9 (-0,014 +0,008)
Model	C
Broach dimensions	9,52 x 298,45mm
Standard keys	5 x 5mm
Min./Max. Cutting length	9,921mm / 63,5mm
Required pressure	1.470lbs / 666,78Kg
Required shims/ Nr of passes	1 shim / 2 passes
Thickness	1,193mm
Bushing diameter	18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 34, 35 and 36mm
Bushing length	63,5mm
Weight	0,350 Kg. Approx.

## Accessories for the Broaching machine BM25

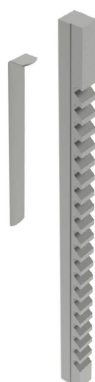



 Broaching time  
1:00 min.

### Keyway broaches 5mm

REF: 125-09-01-BR-00004

Tolerance	JS9 (-0,014 +0,008)
Model	B1
Broach dimensions	6,35 x 171,45mm
Standard keys	5 x 5mm
Min./Max. Cutting length	7,54mm / 42,862mm
Required pressure	1.860lbs / 843,68Kg
Required shims/ Nr of passes	1 shim / 2 passes
Thickness	1,27mm
Bushing diameter	12, 14, 15, 16, 17, 18 and 19mm
Bushing length	42,862mm
Weight	0,100 Kg. Approx.

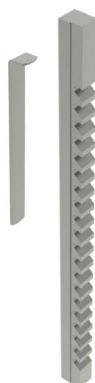



 Tiempo de brochado  
1:00 min.

### Keyway broaches 4mm

REF: 125-09-01-BR-00003

Tolerance	JS9 (-0,015 +0,01)
Model	B1
Broach dimensions	6,35 x 171,45mm
Standard keys	4 x 4mm
Min./Max. Cutting length	7,54mm / 42,862mm
Required pressure	1.140lbs / 517,09Kg
Required shims/ Nr of passes	1 shim / 2 passes
Thickness	0,965mm
Bushing diameter	12, 14, 15, 16, 17, 18 and 19mm
Bushing length	42,862mm
Weight	0,100 Kg. Approx.



 Tiempo de brochado  
0:45 min.


### Keyway broaches 3mm

REF: 125-09-01-BR-00002

Tolerance	JS9 (-0,013 +0,009)
Model	A
Broach dimensions	3,175 x 127mm
Standard keys	3 x 3mm
Min./Max. Cutting length	5,159mm / 28,575mm
Required pressure	650lbs / 294,83Kg
Required shims/ Nr of passes	1 shim / 2 passes
Thickness	0,787mm
Bushing diameter	6, 8, 10, 12 and 15mm
Bushing length	28,575mm
Weight	0,020 Kg. Approx.

## Accessories for the Broaching machine BM25

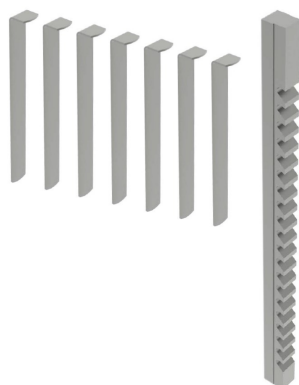



 Broaching time  
**0:30 min.**

### Keyway broaches 2mm

**REF: 125-09-01-BR-00001**

Tolerance	JS9 (-0,014 +0,009)
Model	A
Broach dimensions	3,175 x 127mm
Standard keys	2 x 2mm
Min./Max. Cutting length	5,159mm / 28,575mm
Required pressure	720lbs / 326,58Kg
Required shims/ Nr of passes	0 shims / 1 pass
Bushing diameter	6, 8, 10, 12 and 15mm
Bushing length	28,575mm
Weight	0,020 Kg. Approx.

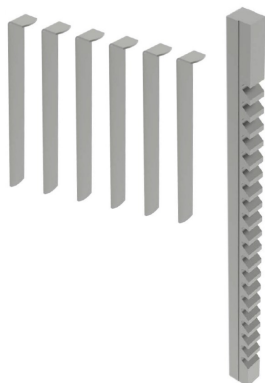



 Broaching time  
**8:00 min.**

### Keyway broaches 1 inch

**REF: 125-09-01-BRP-00020**

Tolerance	JS9 (1,0015 · 1,0025)
Model	F
Broach dimensions	1 x 20 1/4 inches
Min./Max. Cutting length	1 inch / 6 inches
Required pressure	11.100lbs
Required shims/ Nr of passes	7 shims / 8 passes
Thickness	0,0625 inches
Bushing diameter	3 1/16, 3 1/8, 3 3/16, 3 1/4, 3 5/16, 3 3/8, 3 7/16, 3 1/2, 3 9/16, 3 5/8, 3 11/16, 3 3/4, 3 13/16, 3 7/8, 3 15/16, 4, 4 1/16, 4 1/8, 4 3/16, 4 1/4, 4 5/16, 4 3/8, 4 7/16, 4 1/2, 7 9/16, 4 5/8, 4 11/16, 4 3/4, 4 13/16, 4 7/8, 4 15/16 and 5 inches
Bushing length	6 inches
Weight	3,500 Kg. Approx.



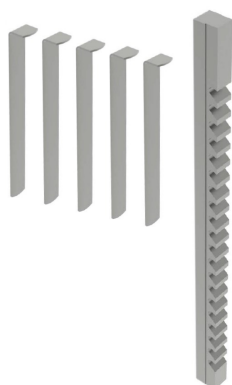
 Broaching time  
**6:00 min.**


### Keyway broaches 7/8 inch

**REF: 125-09-01-BRP-00019**

Tolerance	JS9 (0,8765 · 0,8775)
Model	F
Broach dimensions	1 x 20 1/4 inches
Min./Max. Cutting length	1 inch / 6 inches
Required pressure	9.800lbs
Required shims/ Nr of passes	6 shims / 7 passes
Thickness	0,0625 inches
Bushing diameter	3 1/16, 3 1/8, 3 3/16, 3 1/4, 3 5/16, 3 3/8, 3 7/16, 3 1/2, 3 9/16, 3 5/8, 3 11/16, 3 3/4, 3 13/16, 3 7/8, 3 15/16, 4, 4 1/16, 4 1/8, 4 3/16, 4 1/4, 4 5/16, 4 3/8, 4 7/16, 4 1/2, 7 9/16, 4 5/8, 4 11/16, 4 3/4, 4 13/16, 4 7/8, 4 15/16 and 5 inches
Bushing length	6 inches
Weight	3,500 Kg. Approx.

## Accessories for the Broaching machine BM25

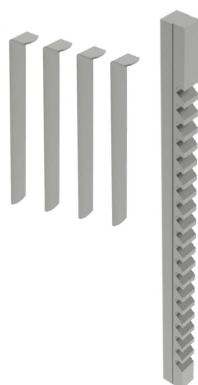



 Broaching time  
**5:00 min.**

### Keyway broaches 3/4 inch

**REF: 125-09-01-BRP-00018**

Tolerance	JS9 (0,7515 · 0,7525)
Model	E
Broach dimensions	3/4 x 15 1/2 inches
Min./Max. Cutting length	1 pulgada / 6 inches
Required pressure	11.900lbs
Required shims/ Nr of passes	5 shims / 6 passes
Thickness	0,0625 inches
Bushing diameter	2 5/16, 2 3/8, 2 7/16, 2 1/2, 2 9/16, 2 5/8, 2 11/16, 2 3/4, 2 13/16, 2 7/8, 2 15/16, 3, 3 1/16, 3 1/8, 3 3/16, 3 1/4, 3 5/16, 3 3/8, 3 7/16, 3 1/2, 3 9/16, 3 5/8, 3 11/16, 3 3/4, 3 13/16, 3 7/8, 3 15/16 and 4 inches
Bushing length	6 inches
Weight	1,500 Kg. Approx.

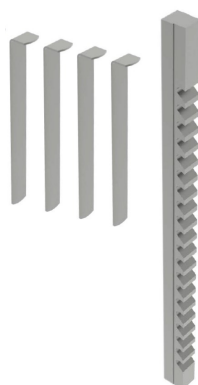



 Broaching time  
**4:00 min.**

### Keyway broaches 5/8 inch

**REF: 125-09-01-BRP-00017**

Tolerance	JS9 (0,6260 · 0,6270)
Model	E
Broach dimensions	3/4 x 15 1/2 inches
Min./Max. Cutting length	1 inch / 6 inches
Required pressure	9.600lbs
Required shims/ Nr of passes	4 shims / 5 passes
Thickness	0,0625 inches
Bushing diameter	2 5/16, 2 3/8, 2 7/16, 2 1/2, 2 9/16, 2 5/8, 2 11/16, 2 3/4, 2 13/16, 2 7/8, 2 15/16, 3, 3 1/16, 3 1/8, 3 3/16, 3 1/4, 3 5/16, 3 3/8, 3 7/16, 3 1/2, 3 9/16, 3 5/8, 3 11/16, 3 3/4, 3 13/16, 3 7/8, 3 15/16 and 4 inches
Bushing length	6 inches
Weight	1,500 Kg. Approx.



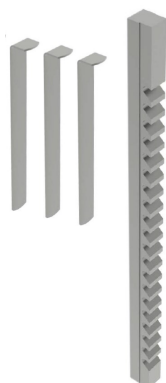
 Broaching time  
**3:40 min.**


### Keyway broaches 9/16 inch

**REF: 125-09-01-BRP-00016**

Tolerance	JS9 (0,5631 · 0,5641)
Model	D
Broach dimensions	9/16 x 13 7/8 inches
Min./Max. Cutting length	1 inch / 6 inches
Required pressure	8.900lbs
Required shims/ Nr of passes	4 shims / 5 passes
Thickness	0,0560 inches
Bushing diameter	1 7/16, 1 1/2, 1 9/16, 1 5/8, 1 11/16, 1 3/4, 1 13/16, 1 7/8, 1 15/16, 2, 2 1/16, 2 1/8, 2 3/16, 2 1/4, 2 5/16, 2 3/8, 2 7/16, 2 1/2, 2 9/16, 2 5/8, 2 11/16, 2 3/4, 2 13/16, 2 7/8, 2 15/16 and 3 inches
Bushing length	6 inches
Weight	1,00 Kg. Approx.

## Accessories for the Broaching machine BM25

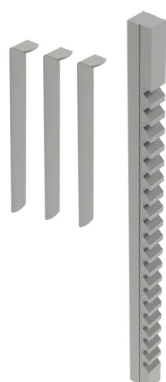



 Broaching time  
3:00 min.

### Keyway broaches 1/2 inch

REF: 125-09-01-BRP-00015

Tolerance	JS9 (0,5006 · 0,5016)
Model	D
Broach dimensions	9/16 x 13 7/8 inches
Min./Max. Cutting length	1 inch / 6 pulgadas
Required pressure	9.800lbs
Required shims/ Nr of passes	3 shims / 4 passes
Thickness	0,0625 inches
Bushing diameter	1 7/16, 1 1/2, 1 9/16, 1 5/8, 1 11/16, 1 3/4, 1 13/16, 1 7/8, 1 15/16, 2, 2 1/16, 2 1/8, 2 3/16, 2 1/4, 2 5/16, 2 3/8, 2 7/16, 2 1/2, 2 9/16, 2 5/8, 2 11/16, 2 3/4, 2 13/16, 2 7/8, 2 15/16 and 3 inches
Bushing length	4 inches
Weight	1,00 Kg. Approx.

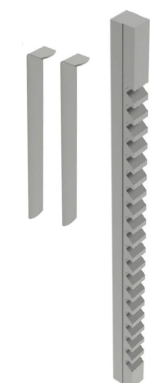



 Broaching time  
3:00 min.

### Keyway broaches 7/16 inch

REF: 125-09-01-BRP-00014

Tolerance	JS9 (0,4380 · 0,4390)
Model	D
Broach dimensions	9/16 x 13 7/8 inches
Min./Max. Cutting length	1 inch / 6 inches
Required pressure	9.400lbs
Required shims/ Nr of passes	3 shims / 4 passes
Thickness	0,0560 inches
Bushing diameter	1 7/16, 1 1/2, 1 9/16, 1 5/8, 1 11/16, 1 3/4, 1 13/16, 1 7/8, 1 15/16, 2, 2 1/16, 2 1/8, 2 3/16, 2 1/4, 2 5/16, 2 3/8, 2 7/16, 2 1/2, 2 9/16, 2 5/8, 2 11/16, 2 3/4, 2 13/16, 2 7/8, 2 15/16 and 3 inches
Bushing length	4 inches
Weight	1,00 Kg. Approx.



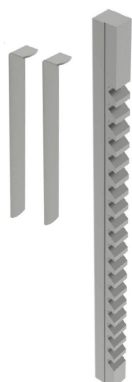
 Broaching time  
2:30 min.


### Keyway broaches 3/8 inch

REF: 125-09-01-BRP-00013

Tolerance	JS9 (0,3755 · 0,3765)
Model	D
Broach dimensions	9/16 x 13 7/8 inches
Min./Max. Cutting length	1 inch / 6 inches
Required pressure	7.000lbs
Required shims/ Nr of passes	2 shims / 3 passes
Thickness	0,0625 inches
Bushing diameter	1 7/16, 1 1/2, 1 9/16, 1 5/8, 1 11/16, 1 3/4, 1 13/16, 1 7/8, 1 15/16, 2, 2 1/16, 2 1/8, 2 3/16, 2 1/4, 2 5/16, 2 3/8, 2 7/16, 2 1/2, 2 9/16, 2 5/8, 2 11/16, 2 3/4, 2 13/16, 2 7/8, 2 15/16 and 3 inches
Bushing length	4 inches
Weight	1,00 Kg. Approx.

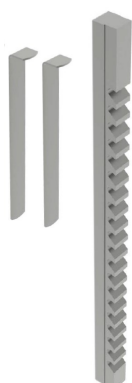
## Accessories for the Broaching machine BM25




 Broaching time  
2:30 min.

### Keyway broaches 5/16 inch REF: 125-09-01-BRP-00012

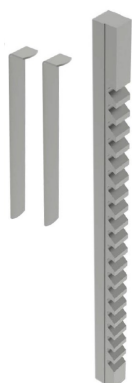
Tolerance	JS9 (0,3127 · 0,3137)
Model	D
Broach dimensions	9/16 x 13 7/8 inches
Min./Max. Cutting length	1 inch / 6 inches
Required pressure	8.000lbs
Required shims/ Nr of passes	2 shims / 3 passes
Thickness	0,0560 inches
Bushing diameter	1 7/16, 1 1/2, 1 9/16, 1 5/8, 1 11/16, 1 3/4, 1 13/16, 1 7/8, 1 15/16, 2, 2 1/16, 2 1/8, 2 3/16, 2 1/4, 2 5/16, 2 3/8, 2 7/16, 2 1/2, 2 9/16, 2 5/8, 2 11/16, 2 3/4, 2 13/16, 2 7/8, 2 15/16 and 3 inches
Bushing length	4 inches
Weight	1,00 Kg. Approx.




 Broaching time  
2:30 min.

### Keyway broaches 3/8 inch REF: 125-09-01-BRP-00011

Tolerance	JS9 (0,3755 · 0,3765)
Model	C
Broach dimensions	3/8 x 11 3/4 inches
Min./Max. Cutting length	25/64 inch / 2 1/2 inches
Required pressure	4.340lbs
Required shims/ Nr of passes	2 shims / 3 passes
Thickness	0,0625 inches
Bushing diameter	3/4, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8, 1 3/16, 1 1/4, 1 5/16, 1 3/8, 1 7/16, 1 1/2 and 1 9/16 inches
Bushing length	2 1/2 inches
Weight	0,350 Kg. Approx.

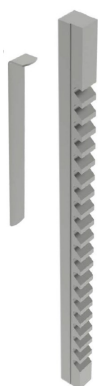



 Broaching time  
2:30 min.

### Keyway broaches 5/16 inch REF: 125-09-01-BRP-00010

Tolerance	JS9 (0,3127 · 0,3137)
Model	C
Broach dimensions	3/8 x 11 3/4 inches
Min./Max. Cutting length	25/64 inch / 2 1/2 inches
Required pressure	3.960lbs
Required shims/ Nr of passes	2 shims / 3 passes
Thickness	0,0550 inches
Bushing diameter	3/4, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8, 1 3/16, 1 1/4, 1 5/16, 1 3/8, 1 7/16, 1 1/2 and 1 9/16 inches
Bushing length	2 1/2 inches
Weight	0,350 Kg. Approx.

## Accessories for the Broaching machine BM25

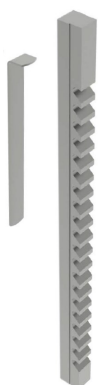



 Broaching time  
1:20 min.

### Keyway broaches 1/4 inch

REF: 125-09-01-BRP-00009

Tolerance	JS9 (0,2502 · 0,2512)
Model	C
Broach dimensions	3/8 x 11 3/4 inches
Min./Max. Cutting length	25/64 inch / 2 1/2 inches
Required pressure	2.520lbs
Required shims/ Nr of passes	1 shim / 2 passes
Thickness	0,0625 inches
Bushing diameter	3/4, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8, 1 3/16, 1 1/4, 1 5/16, 1 3/8, 1 7/16, 1 1/2 and 1 9/16 inches
Bushing length	2 1/2 inches
Weight	0,350 Kg. Approx.

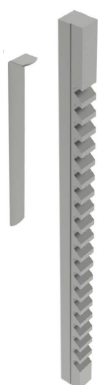



 Broaching time  
1:20 min.

### Keyway broaches 3/16 inch

REF: 125-09-01-BRP-00008

Tolerance	JS9 (0,1877 · 0,1887)
Model	C
Broach dimensions	3/8 x 11 3/4 inches
Min./Max. Cutting length	25/64 inch / 2 1/2 inches
Required pressure	1.540lbs
Required shims/ Nr of passes	1 shim / 2 passes
Thickness	0,0500 inches
Bushing diameter	3/4, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8, 1 3/16, 1 1/4, 1 5/16, 1 3/8, 1 7/16, 1 1/2 and 1 9/16 inches
Bushing length	2 1/2 inches
Weight	0,350 Kg. Approx.



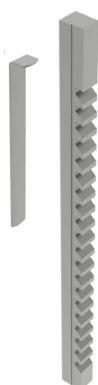
 Broaching time  
1:00 min.


### Keyway broaches 3/16 inch

REF: 125-09-01-BRP-00007

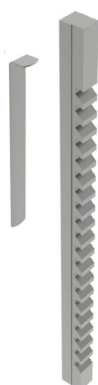
Tolerance	JS9 (0,1877 · 0,1887)
Model	B
Broach dimensions	3/16 x 6 3/4 inches
Min./Max. Cutting length	19/64 inch / 1 11/16 inches
Required pressure	1.860lbs
Required shims/ Nr of passes	1 shim / 2 passes
Thickness	0,0500 inches
Bushing diameter	1/2, 9/16, 5/8, 11/16, 3/4, 13/16 and 7/8 inch
Bushing length	1 11/16 inches
Weight	0,100 Kg. Approx.


## Accessories for the Broaching machine BM25



 Broaching time  
**1:00 min.**


Keyway broaches 5/32 inch		REF: 125-09-01-BRP-00006
Tolerance	JS9 (0,1564 · 0,1574)	
Model	B	
Broach dimensions	3/16 x 6 3/4 inches	
Min./Max. Cutting length	19/64 inch / 1 11/16 inches	
Required pressure	1.320lbs	
Required shims/ Nr of passes	1 shim / 2 passes	
Thickness	0,0420 inches	
Bushing diameter	1/2, 9/16, 5/8, 11/16, 3/4, 13/16 and 7/8 inch	
Bushing length	1 11/16 inches	
Weight	0,100 Kg. Approx.	



 Broaching time  
**1:00 min.**

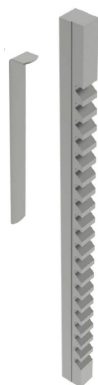
Keyway broaches 1/8 inch		REF: 125-09-01-BRP-00005
Tolerance	JS9 (0,1252 · 0,1262)	
Model	B	
Broach dimensions	3/16 x 6 3/4 inches	
Min./Max. Cutting length	19/64 inch / 1 11/16 inches	
Required pressure	720lbs	
Required shims/ Nr of passes	1 shim / 2 passes	
Thickness	0,0310 inches	
Bushing diameter	1/2, 9/16, 5/8, 11/16, 3/4, 13/16 and 7/8 inches	
Bushing length	1 11/16 inches	
Weight	0,100 Kg. Approx.	




 Broaching time  
**0:40 min.**

Keyway broaches 3/32 inch		REF: 125-09-01-BRP-00004
Tolerance	JS9 (0,0938 · 0,0948)	
Model	B	
Broach dimensions	3/16 x 6 3/4 inches	
Min./Max. Cutting length	19/64 inch / 1 11/16 inches	
Required pressure	930lbs	
Required shims/ Nr of passes	0 shims / 1 pass	
Bushing diameter	1/2, 9/16, 5/8, 11/16, 3/4, 13/16 and 7/8 inch	
Bushing length	1 11/16 inches	
Weight	0,100 Kg. Approx.	

## Accessories for the Broaching machine BM25




 Broaching time  
**0:45 min.**

### Keyway broaches 1/8 inch

**REF: 125-09-01-BRP-00003**

Tolerance	JS9 (0,1252 · 0,1262)
Model	A
Broach dimensions	1/8 x 5 inches
Min./Max. Cutting length	13/64 inch / 1 1/8 inches
Required pressure	650lbs
Required shims/ Nr of passes	1 shim / 2 passes
Thickness	0,0310 inches
Bushing diameter	1/4, 5/16, 3/8, 7/16 and 1/2 inch
Bushing length	1 1/8 inches
Weight	0,020 Kg. Approx.




 Broaching time  
**0:30 min.**

### Keyway broaches 3/32 inch

**REF: 125-09-01-BRP-00002**

Tolerance	JS9 (0,0938 · 0,0948)
Model	A
Broach dimensions	1/8 x 5 inches
Min./Max. Cutting length	13/64 inch / 1 1/8 inches
Required pressure	780lbs
Required shims/ Nr of passes	0 shims / 1 pass
Bushing diameter	1/4, 5/16, 3/8, 7/16 and 1/2 inch
Bushing length	1 1/8 inches
Weight	0,020 Kg. Approx.



 Broaching time  
**0:30 min.**

### Keyway broaches 1/16 inch

**REF: 125-09-01-BRP-00001**

Tolerance	JS9 (0,0625 · 0,0635)
Model	A
Broach dimensions	1/8 x 5 inches
Min./Max. Cutting length	13/64 inch / 1 1/8 inches
Required pressure	390lbs
Required shims/ Nr of passes	0 shims / 1 pass
Bushing diameter	1/4, 5/16, 3/8, 7/16 and 1/2 inch
Bushing length	1 1/8 inches
Weight	0,020 Kg. Approx.

## Accessories for the Broaching machine BM25

### ► Bushings



F114 steel guide bushes in H8 diameter tolerance to optimize the perfect finish of the part.

*For other dimensions, request the manufacturer.*

Reference	Model	Diameter	Length	Tolerance	Broaches
125-09-01-CBR-00002	A	10 mm	32 mm	J9	2 - 3 mm
125-09-01-CBR-00004	B	12 mm	46 mm	J9	4 - 5C mm
125-09-01-CBR-00005	B	14 mm	46 mm	J9	4 - 5C mm
125-09-01-CBR-00006	B	16 mm	46 mm	J9	4 - 5C mm
125-09-01-CBR-00007	B	17 mm	46 mm	J9	4 - 5C mm
125-09-01-CBR-00008	C	18 mm	65 mm	J9	5 - 6 - 8 mm
125-09-01-CBR-00009	C	19 mm	65 mm	J9	5 - 6 - 8 mm
125-09-01-CBR-00010	C	20 mm	65 mm	J9	5 - 6 - 8 mm
125-09-01-CBR-00011	C	22 mm	65 mm	J9	5 - 6 - 8 mm
125-09-01-CBR-00012	C	24 mm	65 mm	J9	5 - 6 - 8 mm
125-09-01-CBR-00013	C	25 mm	65 mm	J9	5 - 6 - 8 mm
125-09-01-CBR-00014	C	28 mm	65 mm	J9	5 - 6 - 8 mm
125-09-01-CBR-00015	C	30 mm	65 mm	J9	5 - 6 - 8 mm
125-09-01-CBR-00016	D	32 mm	102 mm	J9	10 - 12 - 14 mm
125-09-01-CBR-00017	D	35 mm	102 mm	J9	10 - 12 - 14 mm
125-09-01-CBR-00018	D	38 mm	102 mm	J9	10 - 12 - 14 mm
125-09-01-CBR-00020	D	40 mm	102 mm	J9	10 - 12 - 14 mm
125-09-01-CBR-00021	D	42 mm	102 mm	J9	10 - 12 - 14 mm
125-09-01-CBR-00022	D	45 mm	127 mm	J9	10 - 12 - 14 mm
125-09-01-CBR-00023	D	48 mm	127 mm	J9	10 - 12 - 14 mm
125-09-01-CBR-00024	D	50 mm	127 mm	J9	10 - 12 - 14 mm
125-09-01-CBR-00025	E	55 mm	127 mm	J9	16 - 18 mm
125-09-01-CBR-00026	E	60 mm	154 mm	J9	16 - 18 mm
125-09-01-CBR-00027	E	65 mm	154 mm	J9	16 - 18 mm
125-09-01-CBR-00028	F	70 mm	154 mm	J9	20 - 22 - 24 - 25 mm
125-09-01-CBR-00029	F	75 mm	154 mm	J9	20 - 22 - 24 - 25 mm
125-09-01-CBR-00030	F	80 mm	154 mm	J9	20 - 22 - 24 - 25 mm
125-09-01-CBR-00031	F	85 mm	154 mm	J9	20 - 22 - 24 - 25 mm
125-09-01-CBR-00032	F	90 mm	154 mm	J9	20 - 22 - 24 - 25 mm
125-09-01-CBR-00033	F	95 mm	154 mm	J9	20 - 22 - 24 - 25 mm

## Horizontal Press Brake

### ► Horizontal Press Brake PP200

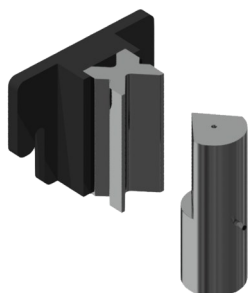
The versatility of the 20 Tons Horizontal Press Brake Nargesa PP200 allows us to bend, fold, cut and shape in cold, stretch and reduce, inlay, notch and assemble...

<b>Reference</b>	<b>100-16-01-001</b>
<b>Engine power</b>	2,2 KW / 3 HP a 1400r.p.m
<b>Three-phased tension</b>	230 / 400 V
<b>Working strength</b>	20.000 Kg / 200 KN
<b>Working speed</b>	10 mm/s
<b>Return speed</b>	35 mm/s
<b>Maximum displacement</b>	250 mm
<b>Repetitivity</b>	0,05 mm
<b>Tooling support table</b>	600x1170 mm
<b>Dimensions</b>	958x1200x1126 mm
<b>Weight</b>	625 Kg



## Accessories for Horizontal press brake PP200

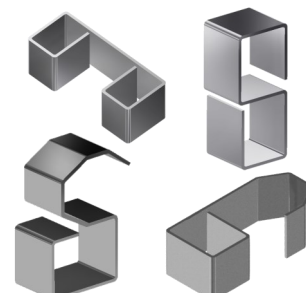
### ► Folding die at 100 mm. · V16, 22 35 50 mm PP200



Folding or bending die up to 100mm with 4 openings (16, 22, 35, 50mm) and a punch of 80°. This multi-V die allows 1mm up to 8mm sheet to be folded. The 70mm outer die diameter punch allows to make completely closed shapes to a minimum of 75mm inner wing.

**Folding die reference:** 125-16-01-00006

**Folding punch reference:** 131-16-01-00041



**V 16:** Sheet from 1 to 3mm

**V 22:** Sheet from 2 to 4mm

**V 35:** Sheet from 3 to 6mm

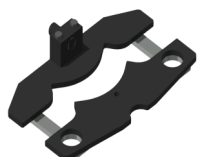
**V 50:** Sheet from 4 to 8mm

**Max. Folding length:** 100mm

**Max. Folding thickness:** 8mm

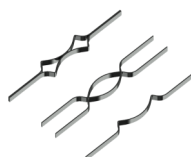
*Standard tooling provided along with the machine.*

### ► Baluster forming die 01



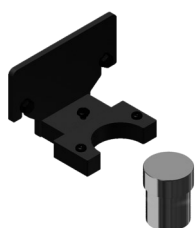
**Reference:** 140-16-01-00001

Die to form cold forging balusters for grills, gates, fences, handrails, etc... For other shapes or capacities, request the manufacturer.



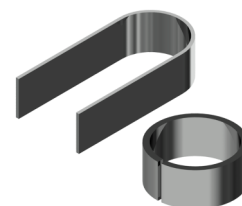
Max. width	Thickness	Die length	Weight
20mm	4, 5, 6, 8 mm	656 mm	21 Kg

### ► Ring forming



**Reference:** 140-16-01-00003

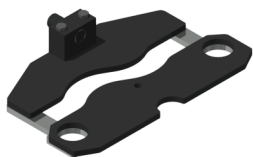
Die to form rings or English banister railing, used as ornamental piece in forging railings, gates, fences, etc... for bars bonding. For other sizes and applications consult the manufacturer



Max. width	Thickness	Outer sizes	Weight
50 mm	6 mm	90 mm	9.3 Kg

## Accessories for Horizontal press brake PP200

### ► Baluster forming die 04



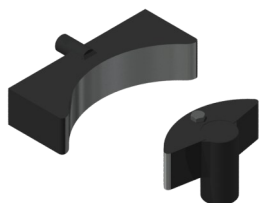
**Reference: 140-16-01-00004**

Die to form cold forging balusters for grills, gates, fences, handrails, etc... For other shapes or capacities, request the manufacturer.



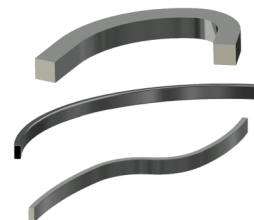
Square sizes	Die length	Weight
5, 6, 8, 10,12, 14, 16, 18 mm	600 mm	20,5 Kg

### ► Bending tool for big radius PP200



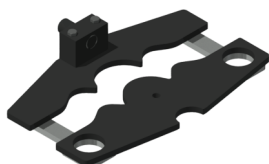
**Reference: 140-16-01-00006**

Die to form curves in flat bars, pipes, bars or profiles at big radius. It's perfect for bending small series or special parts without requiring a specific custom mold.



Maximum bar capacity	Maximum pipe capacity	Minimum diameter	Maximum diameter	Weight
40 mm or 1 1/2"	80x80 mm or 3"	300 mm	There is no maximum	35 Kg

### ► Baluster forming die 08



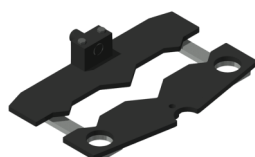
**Reference: 140-16-01-00008**

Die to form cold forging balusters for grills, gates, fences, handrails, etc... For other shapes or capacities, request the manufacturer.



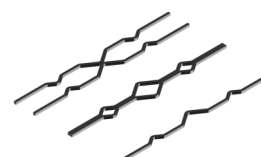
Max. width	Thickness	Die length	Weight
20 mm	4, 5, 6, 8 mm	650 mm	19,5 Kg

### ► Baluster forming die 09



**Reference: 140-16-01-00009**

Die to form cold forging balusters for grills, gates, fences, handrails, etc... For other shapes or capacities, request the manufacturer.



Flat bar size	Die length	Weight
5, 6, 8, 10,12 mm	522 mm	22 Kg

## Accessories for Horizontal press brake PP200

### ► Baluster forming die 10



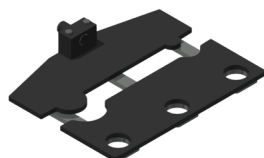
**Reference: 140-16-01-00010**

Die to form cold forging balusters shaped parts for grills, so called "belly top railing". For other shapes or capacities, please consult the manufacturer.



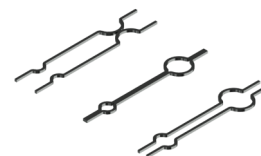
Flat bar size	Die length	Weight
12 mm	1165 mm	50 Kg

### ► Baluster forming die 11



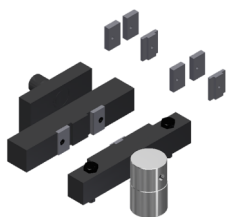
**Reference: 140-16-01-00011**

Die to form cold forging balusters for grills, gates, fences, handrails, etc... For other shapes or capacities, request the manufacturer.



Flat bar size	Die length	Weight
6, 8, 10, 12 mm	760 mm	32,5 Kg

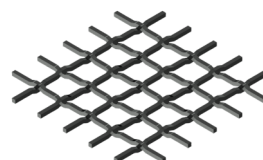
### ► Twisted bars forming die



**Reference: 140-16-01-00013**

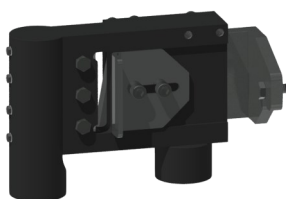
Die to bend metal plate, flat bar or square bar to obtain a nice braid twisted effect. It's very used to make fences and grills

For flat bar from 6, 12 and 14mm. (For different sizes, please ask the manufacturer)



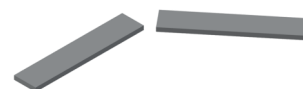
Max. capacity	Min. capacity	Weight
Square 14 mm	2x40 mm metal sheet	18 Kg

### ► Flat bar cutting tooling 100x10 mm. PP200



**Reference: 140-16-01-00014**

Flat bar and metal sheet cutting die up to 100mm through a maximum thickness of 10mm in mild steel.

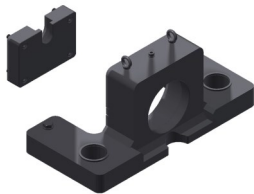


Max. Cutting length	Max. Cutting thickness	Weight
100 mm	10 mm	23 Kg

## Accessories for Horizontal press brake PP200

### ► Tool to shape pipe ends PP200

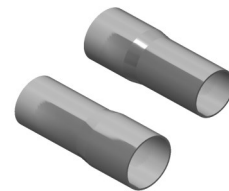
---



**Reference: 140-16-01-00016**

Basic die to modify the ends of the tubes for their assembly. You can make all kinds of shapes and flaps according to the customer needs. For special forms consult the manufacturer.

**Weight:** 110 Kg aprox.



### Diameter reduction tools for PP200

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#### PP200 reduction cone

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**Reference: 140-16-01-RE001**

This accessory is adapted to the **Tooling to shape pipe ends**, to perform the operation of reducing the ends of the tubes.

This accessory is used in all tube sizes, that is to say, it is not necessary to buy more than one since it is adaptable to all diameters.

**Weight:** 12,7 Kg.

#### Reducing clamp holder PP200

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**Reference: 140-16-01-RE002**

Accessory to set the **Reducing Clamps** of different diameters.

This accessory is used in all tube sizes, that is to say, it is not necessary to buy more than one since it is adaptable to all diameters.

**Weight:** 4,6 Kg.

## Accessories for Horizontal press brake PP200

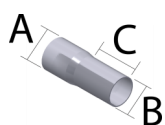
### PP200 reducer clamp



This accessory attaches to the **Reducing clamp holder**, to carry out the operation of reducing the ends of the tubes.

It is necessary to buy one specific reducing clamp for each tube according to its initial diameter and the final diameter that we want to achieve.

See the following table of Reducing Clamps:

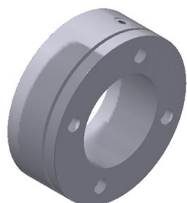


ØA max.	ØB min.	C max.	Reference	Description
16mm	10mm	76mm	140-16-01-RE16-10	Tube Reducer Clamp 16-10 Length Max. 76mm
19mm	13mm	76mm	140-16-01-RE19-13	Tube Reducer Clamp 19-13 Length Max. 76mm
22mm	16mm	76mm	140-16-01-RE22-16	Tube Reducer Clamp 22-16 Length Max. 76mm
25mm	19mm	76mm	140-16-01-RE25-19	Tube Reducer Clamp 25-19 Length Max. 76mm
28mm	22mm	76mm	140-16-01-RE28-22	Tube Reducer Clamp 28-22 Length Max. 76mm
32mm	26mm	76mm	140-16-01-RE31-25	Tube Reducer Clamp 32-26 Length Max. 76mm
35mm	29mm	76mm	140-16-01-RE35-29	Tube Reducer Clamp 35-29 Length Max. 76mm
38mm	32mm	76mm	140-16-01-RE38-32	Tube Reducer Clamp 38-32 Length Max. 76mm
42mm	36mm	76mm	140-16-01-RE42-36	Tube Reducer Clamp 42-36 Length Max. 76mm
45mm	39mm	76mm	140-16-01-RE45-39	Tube Reducer Clamp 45-39 Length Max. 76mm
48mm	42mm	76mm	140-16-01-RE48-42	Tube Reducer Clamp 48-42 Length Max. 76mm
51mm	45mm	76mm	140-16-01-RE51-45	Tube Reducer Clamp 51-45 Length Max. 76mm
54mm	48mm	76mm	140-16-01-RE54-48	Tube Reducer Clamp 54-48 Length Max. 76mm
57mm	51mm	76mm	140-16-01-RE57-51	Tube Reducer Clamp 57-51 Length Max. 76mm
60mm	54mm	76mm	140-16-01-RE60-54	Tube Reducer Clamp 60-54 Length Max. 76mm
63mm	57mm	76mm	140-16-01-RE63-57	Tube Reducer Clamp 63-57 Length Max. 76mm
66mm	60mm	76mm	140-16-01-RE66-60	Tube Reducer Clamp 66-60 Length Max. 76mm
69mm	63mm	76mm	140-16-01-RE69-63	Tube Reducer Clamp 69-63 Length Max. 76mm
73mm	67mm	76mm	140-16-01-RE73-67	Tube Reducer Clamp 73-67 Length Max. 76mm

## Accessories for Horizontal press brake PP200

### Diameter expansion tools PP200

#### Clamp Holder to Expand Tube PP200



**Reference: 140-16-01-EX001**

This accessory is adapted to the **Tooling to shape pipe ends**, to perform the operation of expanding the ends of the tubes.

This accessory is used in all tube sizes, that is to say, it is not necessary to buy more than one since it is adaptable to all diameters.

#### Expansion Mandrel PP200

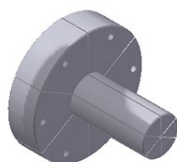


**Reference: 140-16-01-EX002**

This accessory is adapted to the **Tooling to shape pipe ends**, to perform the operation of expanding the ends of the tubes.

This accessory is used in all tube sizes, that is to say, it is not necessary to buy more than one since it is adaptable to all diameters.

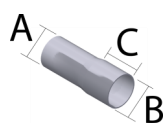
#### Tube Expander Clamp PP200



This accessory is adapted to the **Tooling to shape pipe ends**, to perform the operation of expanding the ends of the tubes.

It is necessary to buy one specific expanding clamp for each tube according to its initial diameter and the final diameter that we want to achieve.

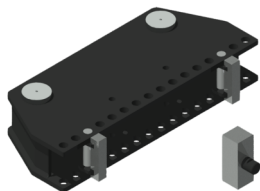
See the following table of Expanding Clamps:



ØA min.	ØB max.	C max.	Reference	Description
22mm	28mm	40mm	140-16-01-EX22-28	Tube Expander Clamp 22-28 Length Max. 40mm
25mm	31mm	40mm	140-16-01-EX25-31	Tube Expander Clamp 25-31 Length Max. 40mm
28mm	34mm	50mm	140-16-01-EX28-34	Tube Expander Clamp 28-34 Length Max. 50mm
31mm	37mm	60mm	140-16-01-EX31-37	Tube Expander Clamp 31-37 Length Max. 60mm
35mm	41mm	60mm	140-16-01-EX35-41	Tube Expander Clamp 35-41 Length Max. 60mm
38mm	44mm	65mm	140-16-01-EX38-44	Tube Expander Clamp 38-44 Length Max. 65mm
41mm	47mm	65mm	140-16-01-EX41-47	Tube Expander Clamp 41-47 Length Max. 65mm
44mm	50mm	80mm	140-16-01-EX44-50	Tube Expander Clamp 44-50 Length Max. 80mm
47mm	53mm	80mm	140-16-01-EX47-53	Tube Expander Clamp 47-53 Length Max. 80mm
51mm	57mm	80mm	140-16-01-EX51-57	Tube Expander Clamp 51-57 Length Max. 80mm
54mm	60mm	80mm	140-16-01-EX54-60	Tube Expander Clamp 54-60 Length Max. 80mm
60mm	66mm	80mm	140-16-01-EX60-66	Tube Expander Clamp 60-66 Length Max. 80mm

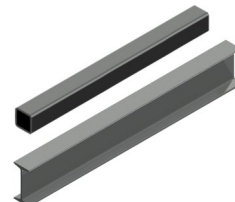
## Accessories for Horizontal press brake PP200

### ► Die to straighten out profiles PP200



**Reference: 140-16-01-00017**

Tool used to bend straight profiles or parts. It is adjustable to different capacities according to the profiles.



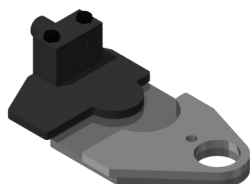
**Maximum capacity**

H 120 mm

**Weight**

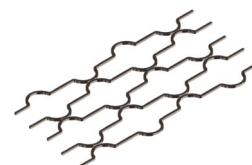
72 Kg

### ► Baluster forming die 20



**Reference: 140-16-01-00020**

Die to form cold forging balusters for grills, gates, fences, handrails, etc... For other shapes or capacities, request the manufacturer.



**Square sizes**

12x12 mm

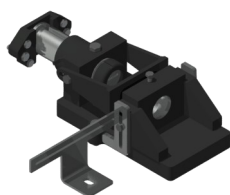
**Circumference size**

90 mm

**Weight**

11 Kg

### ► Punching die

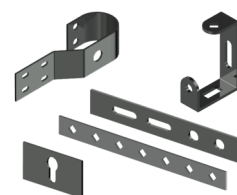


**Reference: 140-16-01-00022**

Punch-holder die, compatible with our Nargesa brand punches.

**Gooseneck: 54 mm**

**Free distance of tooling: 95 mm**



**Round**

43 mm

**Square**

35 mm

**Rectangular**

20x34 mm

**Oval**

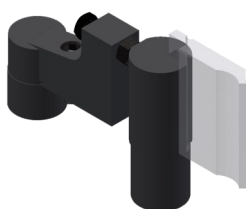
21x40 mm

**Weight**

52 Kg

Max. Punching capacity

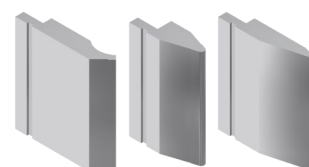
### ► Promecam punch holder PP200



**Reference: 140-16-01-00023**

Punch holder for all kind of punches for Promecam bending or folding press.

*Compatible with any Promecam punch.*



**Max. Folding length**

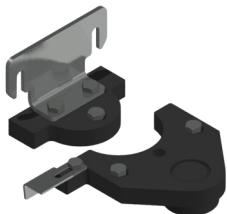
150 mm

**Weight**

14 Kg

## Accessories for Horizontal press brake PP200

### ► Clamp forming die PP200



**Reference: 140-16-01-00024**

Die to form all kinds of clamps. This tooling is manufactured according to the user's needs thus it is required to have a technical drawing or a sample piece.



Maximum capacity
100x4 mm

### ► Special punches

Folding punches to bend special pieces of small sizes or folded up to 30°.



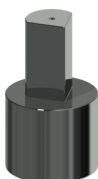
Folding Punch D70 30°

**REF:** 140-16-01-00025

**Max. Folding length:** 100mm

**Punch degrees:** 30°

**Punch diameter:** 70mm



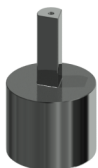
Folding Punch D40 80°

**REF:** 140-16-01-00026

**Max. Folding length:** 60mm

**Punch degrees:** 80°

**Punch diameter:** 40mm



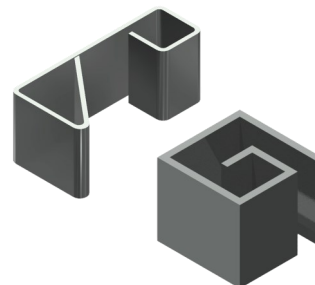
Folding Punch D22 80°

**REF:** 140-16-01-00027

**Max. Folding length:** 60mm

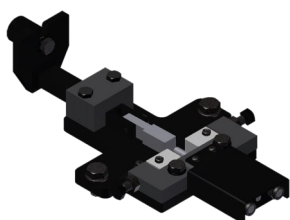
**Punch degrees:** 80°

**Punch diameter:** 22mm



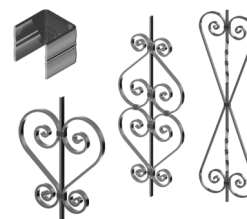
Weight
3Kg each unit approximately

### ► Bar clamps forming die



**Reference: 140-16-01-00028**

Clamp forming die, used to manufacture the clamps used to join different forging bars with no need to get them welded.



Max. capacity	Weight
25x5 mm	9 Kg

## Accessories for Horizontal press brake PP200

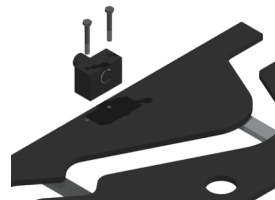
### ► Forming die adaptor



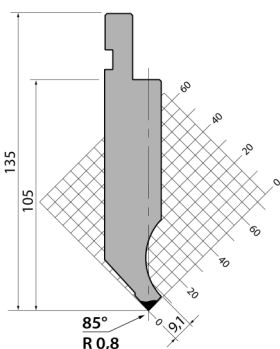
**Reference: 140-16-01-00029**

It is an exchangeable fitting device for the forming dies, suitable for each of the different baluster forming tools. It is advisable to get one in order to work with the specified dies.

**Weight: 3,1 Kg**



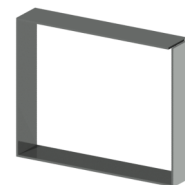
### ► Punch Promecam PS.135.85.R08



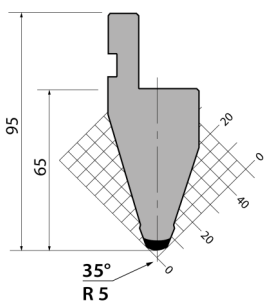
**Reference: 140-16-01-00030**

**Folding length: 161 mm**

**Weight: 3,2 Kg**



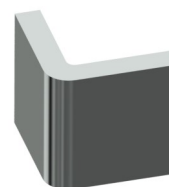
### ► Punch Promecam P.95.35.R5



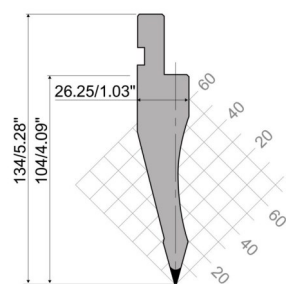
**Reference: 140-16-01-00031**

**Folding length: 161 mm**

**Weight: 2,3 Kg**



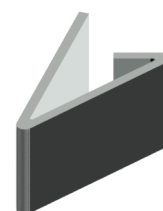
### ► Punch Promecam PS.134.30.R08



**Reference: 140-16-01-00032**

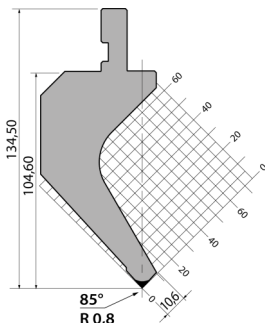
**Folding length: 161 mm**

**Weight: 2,7 Kg**



## Accessories for Horizontal press brake PP200

### ► Punch Promecam PK.135.85.R08



**Reference:** 140-16-01-00038

**Folding length:** 161 mm

**Weight:** 4,4 Kg



### ► Dies to fold thick metal sheet PP200

Promecam dies of different openings to fold sheets, flat bars or thicker plate sections up to 15mm. in order to fold even thicker sizes, ask the manufacture.



Folding die T80.25.35 PP200

REF. 140-16-01-00036

**Folding length:** 161mm

**Thickness:** From 1,5 to 5mm **Weight:** 4Kg.



Folding die M75-85-63 PP200

REF: 140-16-01-00033

**Folding length:** 161mm

**Thickness:** From 5 to 10mm **Weight:** 5Kg.



Folding die M80-85-80 PP200

REF: 140-16-01-00034

**Folding length:** 161mm

**Thickness:** From 6 to 12mm **Weight:** 6Kg.

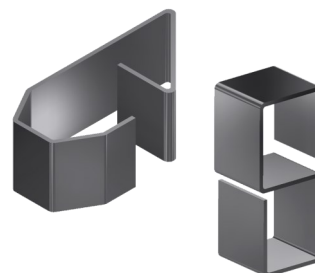


Folding die M95-80-100 PP200

REF: 140-16-01-00035

**Folding length:** 161mm

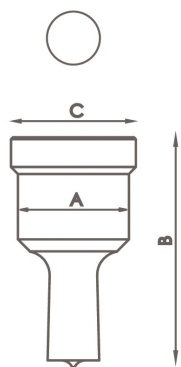
**Thickness:** From 8 to 15mm **Weight:** 9Kg.



## Accessories for Horizontal press brake PP200

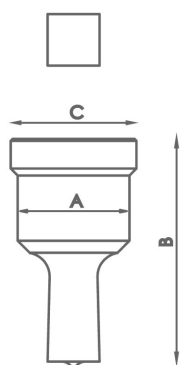
### ► Punches and dies

#### ► Standard round punches



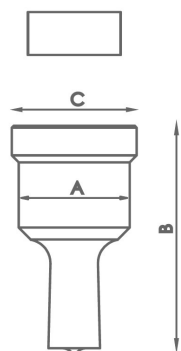
Type	Available sizes in mm Ø	A	B	C
N28	3/3'5/4/4'5/5/5'5/6/6'5/7/7'5/8/8'5 9mm up to 28mm from 0'5 in 0'5mm	28 mm	58 mm	31,5 mm
N40	29/30/31/32/33/34/35/36/37/38/39/40mm	40 mm	64 mm	43,5 mm
N50	41/42/43mm	50 mm	58 mm	54 mm
<i>For different sizes, please ask the manufacturer.</i>				

#### ► Standard square punches



Type	Available sizes in mm Ø	A	B	C
N28	4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20mm	28 mm	58 mm	31,5 mm
N40	21/22/24/26/28mm	40 mm	64 mm	43,5 mm
N50	31/33/35mm	50 mm	58 mm	54 mm
<i>For different sizes, please ask the manufacturer</i>				

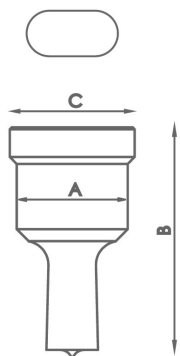
#### ► Standard rectangular punches



Type	Available sizes in mm Ø	A	B	C
N28	7x10/7x15/9x13/9x19/11x17/11x23 13x19/15x21mm	28 mm	58 mm	31,5 mm
N40	13x25/15x27/17x25/19x30/20x34mm	40 mm	64 mm	43,5 mm
<i>For different sizes, please ask the manufacturer</i>				

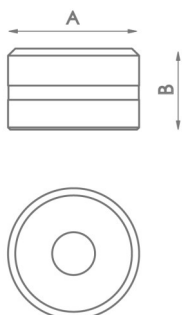
## Accessories for Horizontal press brake PP200

### ► Standard oval punches



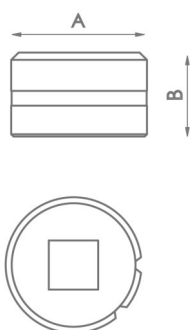
Type	Available sizes in mm Ø	A	B	C
N28	7x10/7x15/7x20/9x13/9x19/11x17/11x23/13x18 13x22/13x27/15x20/15x24/15x27/17x22/17x26 19x26/21x27mm	28 mm	58 mm	31,5 mm
N40	13x31/15x31/17x31/17x40/19x31 19x40/21x31/21x40mm	40 mm	64 mm	43,5 mm
<i>For different sizes, please ask the manufacturer</i>				

### ► Standard round dies



Type	Available sizes in mm	A	B
N46	3/3,5/4/4,5/5/5,5/6/6,5/7/7,5/8/8,5 9mm hasta 28mm from 0,5 in 0,5mm	46 mm	28,5 mm
N60	29/30/31/32/33/34/35/36/37/38/39/40mm	60 mm	32 mm
N78	41/42/43mm	78 mm	28,5 mm
<i>For different sizes, please ask the manufacturers.</i>			

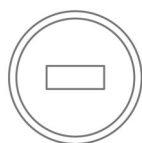
### ► Standard square dies



Type	Available sizes in mm	A	B
N46	4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20mm	46 mm	28,5 mm
N60	21/22/24/26/28mm	60 mm	32 mm
N78	31/33/35mm	78 mm	28,5 mm
<i>For different sizes, please ask the manufacturers.</i>			

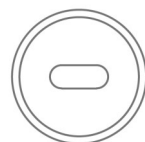
## Accessories for Horizontal press brake PP200

### ► Standard rectangular dies



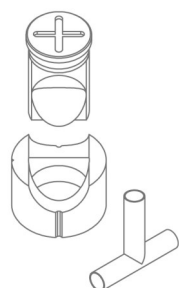
Type	Available sizes in mm	A	B
N46	7x10/7x15/9x13/9x19/11x17/11x23/13x19/13x25/15x21mm	46 mm	28,5 mm
N60	15x27/17x25/19x30/20x34mm	60 mm	32 mm
<i>For different sizes, please ask the manufacturers.</i>			

### ► Oval dies



Type	Available sizes in mm	A	B
N46	7x10/7x15/7x20/9x13/9x19/11x17/11x23/13x18/13x22/13x27/15x20/15x24/15x27/17x22/17x26/19x26/21x27mm	46 mm	28,5 mm
N60	13x31/15x31/17x31/17x40/19x31/19x40/21x31/21x40mm	60 mm	32 mm
<i>For different sizes please ask the manufacturer</i>			

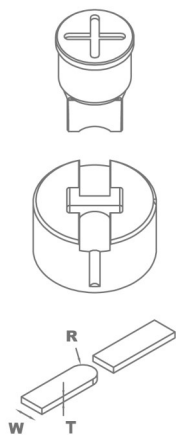
### ► Tube notching tooling



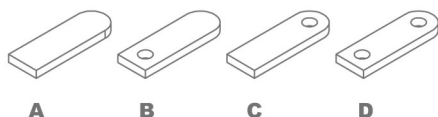
Reference	Available sizes in mm	Required fitting	
MAN28	Tube from 16 to 28mm	TAP 28	CAB 46
MAN40	Tube from 28,5 to 40mm	TAP 40	CAB 60
MAN50	Tube from 40,5 to 50mm	TAP 50	CAB 78
<i>For different sizes please ask the manufacturer</i>			

## Accessories for Horizontal press brake PP200

### ► Flat bar round end tooling R1



Reference	Model	Width size	Required fitting
MOR1-35A	A	From 20 to 35mm	TAP28 / TAP40
MOR1-35B	B	From 20 to 35mm	TAP28 / TAP40
MOR1-35C	C	From 20 to 35mm	TAP28 / TAP40
MOR1-35D	D	From 20 to 35mm	TAP28 / TAP40
MOR1-50A	A	From 40 to 50mm	TAP50 / TAP60 with ATAP
MOR1-50B	B	From 40 to 50mm	TAP50 / TAP60 with ATAP
MOR1-50C	C	From 40 to 50mm	TAP50 / TAP60 with ATAP
MOR1-50D	D	From 40 to 50mm	TAP50 / TAP60 with ATAP



For different sizes, please ask the manufacturer.

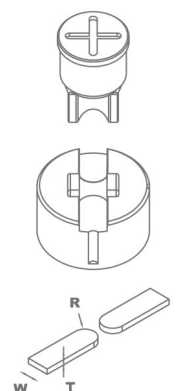
When placing order it must be specified the REFERENCE, MODEL, R (radius), W (flat bar width), T (flat bar thickness)

In models B, C and D specify diameter of the hole.

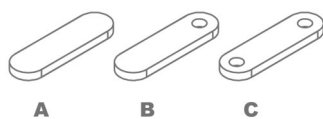
The ear shaped legth is always adjustable.

Production capacity: 450 to 600 parts per hour.

### ► Flat bar round end tooling R2



Reference	Model	Width size	Required fitting
MOR2-35A	A	From 20 to 35mm	TAP28 / TAP40
MOR2-35B	B	From 20 to 35mm	TAP28 / TAP40
MOR2-35C	C	From 20 to 35mm	TAP28 / TAP40
MOR2-50A	A	From 40 to 50mm	TAP50 / TAP60 with ATAP
MOR2-50B	B	From 40 to 50mm	TAP50 / TAP60 with ATAP
MOR2-50C	C	From 40 to 50mm	TAP50 / TAP60 with ATAP



For different sizes, please ask the manufacturer.

When placing order it must be specified the REFERENCE, MODEL, R (radius), W (flat bar width), T (flat bar thickness)

In models B and C specify hole diameter.

The ear shaped legth is always adjustable.

Production capacity: 450 to 600 parts per hour.

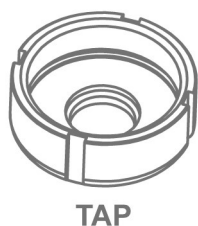
## Accessories for Horizontal press brake PP200

### ► Corner rounding tooling



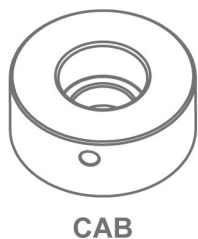
Reference	Available sizes in mm	Required fitting	
MRE28	Radius from 3 to 15mm	TAP 28	CAB 46
MRE40	Radius from 16 to 26mm	TAP 40	CAB 60
MRE50	Radius from 26,5 to 32mm	TAP 50	CAB 78
<i>For different sizes please ask the manufacturer</i>			

### ► Fitting nuts for punches



Reference	Type	Fitting nuts for punches
120-02-01-00011	TAP28	Fitting nuts for punches N28
140-02-01-00019	TAP40	Fitting nuts for punches N40
140-02-01-00020	TAP50	Fitting nuts for punches N50
140-02-01-00021	TAP60	Fitting nuts for punches N60

### ► Fitting for dies



Reference	Type	Fitting for dies
120-02-01-00012	N46	Fitting for dies N46
140-02-01-00024	N60	Fitting for dies N60
140-02-01-00025	N78	Fitting for dies N78

## Hydraulic iron worker

### ► Hydraulic iron worker MX340G

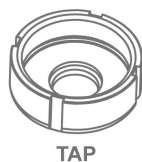
The Hydraulic Punching Machine MX340G Nargesa main feature is its versatility. It can make several functions as punching operations in metal sheet, flat bar, pipe, angle, U-T-UPN-IPN profiles, folding, cutting, tube notching, inlaying, punching, bending sheets, stamping... It can be suitable for any other kind of tooling.

<b>Reference</b>	<b>100-02-01-002</b>
<b>Engine power</b>	2,2 KW / 3 HP
<b>Three-phased tension</b>	230 / 400 V
<b>Hydraulic power</b>	40 Tn
<b>Working speed</b>	7,1 mm/s
<b>Return speed</b>	9,3 mm/s
<b>Punch displacement</b>	100 mm
<b>Neck</b>	180 mm
<b>Tooling support table</b>	245x265 mm
<b>Dimensions</b>	700x800x1800 mm
<b>Weight</b>	615 Kg



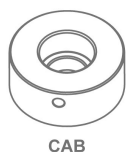
## Accessories for Hydraulic iron worker MX340

### ► Fitting nuts for punches MX340



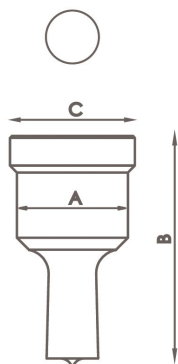
Reference	Type	Fitting nuts for punches
120-02-01-00011	TAP28	Fitting nuts for punches N28 <i>Standard</i>
140-02-01-00019	TAP40	Fitting nuts for punches N40
140-02-01-00020	TAP50	Fitting nuts for punches N50
140-02-01-00021	TAP60	Fitting nuts for punches N60
125-02-01-00002	ATAP	Fitting part for TAP60

### ► Fitting parts for dies MX340



Reference	Type	Fitting for dies
120-02-01-00012	N46	Fitting for dies N46 <i>Standard</i>
140-02-01-00024	N60	Fitting for dies N60
140-02-01-00025	N78	Fitting for dies N78
140-02-01-00037	N100	Base holder for dies N100
140-02-01-00038	N125	Base holder for dies N125

### ► Standard round punches MX340

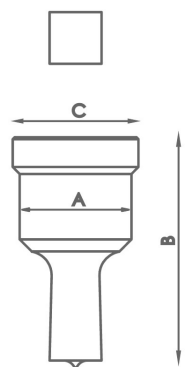


Type	Available sizes in mm Ø	A	B	C
N28	3/3'5/4/4'5/5/5'5/6/6'5/7/7'5/8/8'5 9mm up to 28mm from 0'5 in 0'5mm	28 mm	58 mm	31,5 mm
N40	29/30/31/32/33/34/35/36/37/38/39/40mm	40 mm	64 mm	43,5 mm
N50	41/42/43/44/45/46/47/48/49/50mm	50 mm	58 mm	54 mm
N60	52/54/56/58/60mm	60 mm	58 mm	64 mm
N75	62/64/66/68/70/72/74mm	75 mm	58 mm	79 mm
N100	76/78/80/82/84/86/88/90/92/94/96/98/100mm	100 mm	58 mm	104 mm

*For different sizes, please ask the manufacturer.*

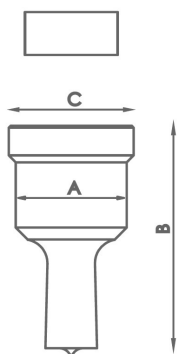
## Accessories for Hydraulic iron worker MX340

### ► Standard square punches MX340



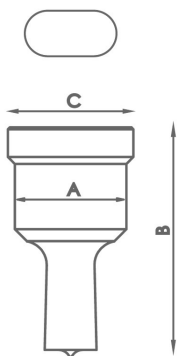
Type	Available sizes in mm Ø	A	B	C
N28	4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20mm	28 mm	58 mm	31,5 mm
N40	21/22/24/26/28mm	40 mm	64 mm	43,5 mm
N50	31/33/35mm	50 mm	58 mm	54 mm
N75	40/44/48/53mm	75 mm	58 mm	79 mm
N100	58/64/70mm	100 mm	58 mm	104 mm
<i>For different sizes, please ask the manufacturer.</i>				

### ► Standard rectangular punches MX340



Type	Available sizes in mm Ø	A	B	C
N28	7x10/7x15/9x13/9x19/11x17/11x23 13x19/15x21mm	28 mm	58 mm	31,5 mm
N40	13x25/15x27/17x25/19x30/20x34mm	40 mm	64 mm	43,5 mm
N50	25x43mm	50 mm	58 mm	54 mm
N75	25x70mm	75 mm	58 mm	79 mm
N100	25x96mm	100 mm	58 mm	104 mm
<i>For different sizes, please ask the manufacturer.</i>				

### ► Standard oval punches MX340



Type	Available sizes in mm Ø	A	B	C
N28	7x10/7x15/7x20/9x13/9x19/11x17/11x23/13x18 13x22/13x27/15x20/15x24/15x27/17x22/17x26 19x26/21x27mm	28 mm	58 mm	31,5 mm
N40	13x31/15x31/17x31/17x40/19x31 19x40/21x31/21x40mm	40 mm	64 mm	43,5 mm
N50	25x45/25x50mm	50 mm	58 mm	54 mm
N75	27x63/27x75mm	75 mm	58 mm	79 mm
N100	30x87/30x100mm	100 mm	58 mm	104 mm
<i>For different sizes, please ask the manufacturer.</i>				

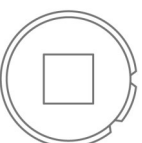
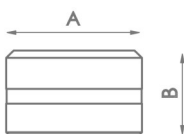
## Accessories for Hydraulic iron worker MX340

### ► Standard round dies MX340



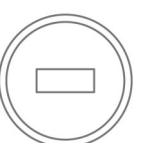
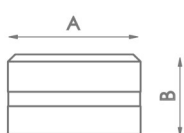
Type	Available sizes in mm	A	B
N46	3/3,5/4/4,5/5/5,5/6/6,5/7/7,5/8/8,5 9mm up to 28mm from 0,5 in 0,5mm	46 mm	28,5 mm
N60	29/30/31/32/33/34/35/36/37/38/39/40mm	60 mm	32 mm
N78	41/42/43/44/45/46/47/48/49/50mm	78 mm	28,5 mm
N100	52/54/56/58/60/62/64/66/68/70/72/74mm	100 mm	28,5 mm
N125	76/78/80/82/84/86/88/90/92/94/96/98/100mm	125 mm	28,5 mm
<i>For different sizes, please ask the manufacturers.</i>			

### ► Standard square dies MX340



Type	Available sizes in mm	A	B
N46	4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20mm	46 mm	28,5 mm
N60	21/22/24/26/28mm	60 mm	32 mm
N78	31/33/35mm	78 mm	28,5 mm
N100	40/44/48/53mm	100 mm	28,5 mm
N125	58/64/70mm	125 mm	28,5 mm
<i>For different sizes, please ask the manufacturers.</i>			

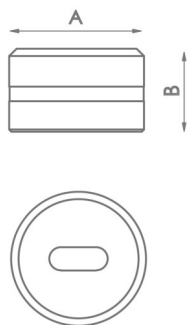
### ► Standard rectangular dies MX340



Type	Available sizes in mm	A	B
N46	7x10/7x15/9x13/9x19/11x17/11x23/13x19/13x25/ 15x21mm	46 mm	28,5 mm
N60	15x27/17x25/19x30/20x34mm	60 mm	32 mm
N78	25x43mm	78 mm	28,5 mm
N100	25x70mm	100 mm	28,5 mm
N125	25x96mm	125 mm	28,5 mm
<i>For different sizes, please ask the manufacturers.</i>			

## Accessories for Hydraulic iron worker MX340

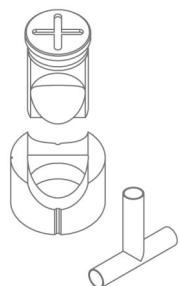
### ► Oval dies MX340



Type	Available sizes in mm	A	B
N46	7x10/7x15/7x20/9x13/9x19/11x17/11x23/13x18/13x22/13x27 15x20/15x24/15x27/17x22/17x26/19x26/21x27mm	46 mm	28,5 mm
N60	13x31/15x31/17x31/17x40/19x31/19x40/21x31/21x40mm	60 mm	32 mm
N78	25x45/25x50mm	78 mm	28,5 mm
N100	27x63/27x75mm	100 mm	28,5 mm
N125	30x87/30x100mm	125 mm	28,5 mm

*For different sizes, please ask the manufacturers.*

### ► Tube notching tooling MX340



Reference	Available sizes in mm	Required fitting	
MAN28	Tube from 16 to 28mm	TAP 28	CAB 46
MAN40	Tube from 28,5 to 40mm	TAP 40	CAB 60
MAN50	Tube from 40,5 to 50mm	TAP 50	CAB 78
MAN60	Tube from 50,5 to 60mm	TAP 60	

*For different sizes, please ask the manufacturers.*

### ► Corner rounding tooling MX340

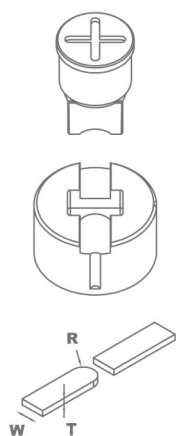


Reference	Available sizes in mm	Required fitting	
MRE28	Radius from 3 to 15mm	TAP 28	CAB 46
MRE40	Radius from 16 to 26mm	TAP 40	CAB 60
MRE50	Radius from 26,5 to 32mm	TAP 50	CAB 78

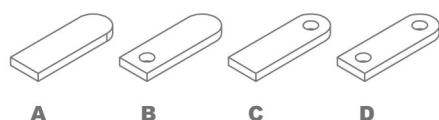
*For different sizes, please ask the manufacturers.*

## Accessories for Hydraulic iron worker MX340

### ► Flat bar round end tooling R1



Reference	Model	Width size	Required fitting
MOR1-35A	A	From 20 to 35mm	TAP28 / TAP40
MOR1-35B	B	From 20 to 35mm	TAP28 / TAP40
MOR1-35C	C	From 20 to 35mm	TAP28 / TAP40
MOR1-35D	D	From 20 to 35mm	TAP28 / TAP40
MOR1-50A	A	From 40 to 50mm	TAP50 / TAP60 with ATAP
MOR1-50B	B	From 40 to 50mm	TAP50 / TAP60 with ATAP
MOR1-50C	C	From 40 to 50mm	TAP50 / TAP60 with ATAP
MOR1-50D	D	From 40 to 50mm	TAP50 / TAP60 with ATAP



For different sizes, please ask the manufacturer.

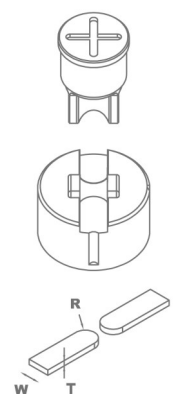
When placing order it must be specified the REFERENCE, MODEL, R (radius), W (flat bar width), T (flat bar thickness)

In models B, C and D specify diameter of the hole.

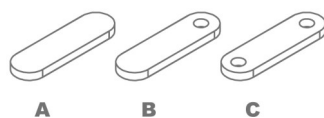
The ear shaped legth is always adjustable.

Production capacity: 450 to 600 parts per hour.

### ► Flat bar round end tooling R2



Reference	Model	Width size	Required fitting
MOR2-35A	A	From 20 to 35mm	TAP28 / TAP40
MOR2-35B	B	From 20 to 35mm	TAP28 / TAP40
MOR2-35C	C	From 20 to 35mm	TAP28 / TAP40
MOR2-50A	A	From 40 to 50mm	TAP50 / TAP60 with ATAP
MOR2-50B	B	From 40 to 50mm	TAP50 / TAP60 with ATAP
MOR2-50C	C	From 40 to 50mm	TAP50 / TAP60 with ATAP



For different sizes, please ask the manufacturer.

When placing order it must be specified the REFERENCE, MODEL, R (radius), W (flat bar width), T (flat bar thickness)

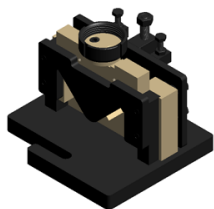
In models B and C specify hole diameter.

The ear shaped legth is always adjustable.

Production capacity: 450 to 600 parts per hour.

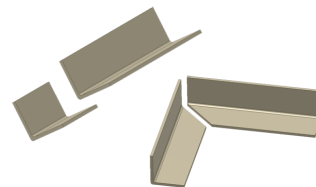
## Accessories for Hydraulic iron worker MX340

### ► Angle cutting tooling. MX340



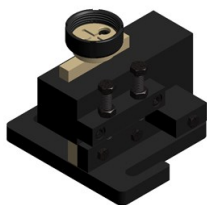
**Reference: 140-02-01-00001**

Angle cutting tooling, from 90° up to 45°.



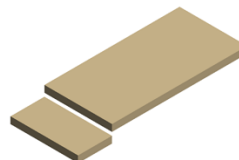
Units per machine	Max. Capacity for straight cut	Max. Cutting capacity for miter	Weight
1	60x60mm	50x50mm	32 Kg

### ► Flat bar cutting tooling. MX340



**Reference: 140-02-01-00002**

Tooling for cutting sheet or flat bars from 0.8mm up to 10mm thickness.



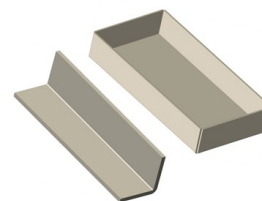
Units per machine	Max. Cutting capacity	Weight
1	100x10mm	28 Kg

### ► Folding tooling 170mm. MX340



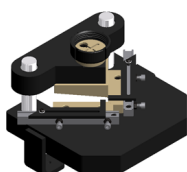
**Reference: 140-02-01-00004**

Tooling for folding sheet and flat bar up to 170mm. 88° punch. Dies with V for 56mm and V for 26m.



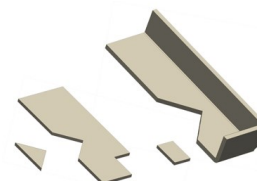
Units per machine	Max folding length	Max folding thickness	Weight
1	170mm	8 to 12mm	12 Kg

### ► Stripping tooling to 90° adjustable 100x100 MX340



**Reference: 140-02-01-00005**

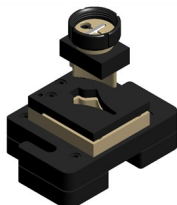
Stripping tooling for angle etc. Adjustable up to 100x100mm to 90° fijos.



Units per machine	Max. Cutting capacity	Weight
1	100x100x4	21 Kg

## Accessories for Hydraulic iron worker MX340

### ► Arrow tooling for metal sheet MX340



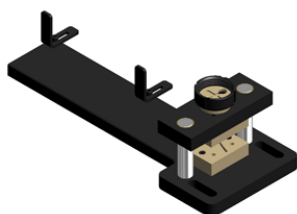
**Reference: 140-02-01-00006**

Tooling for punching metal sheet in arrow shapes for fences.



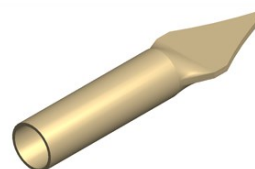
Units per machine	Max. Sheet Thickness	Weight
1	3mm	21 Kg

### ► Arrow tooling for pipes MX340



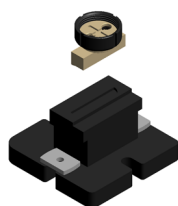
**Reference: 140-02-01-00007**

Tooling to flatten and cut arrow shaped pipes end. Suitable for different diameters.



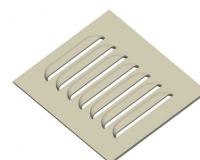
Units per machine	Pipe max. Diameter	Min. Pipe diameter	Weight
1	30x2mm	10x2mm	19 Kg

### ► Ventilation grip tooling. MX340



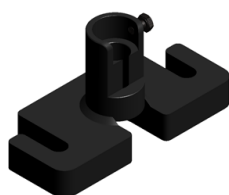
**Reference: 140-02-01-00010**

Tooling to make ventilation grips in metal sheet. Adjustable amount of punchings. They are to made one by one.



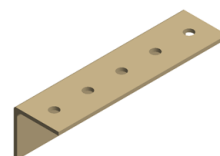
Units per machine	Punchings sizes	Max. thickness	Weight
1	100x20mm	2mm	20Kg

### ► Angle & U profile punching tooling MX340



**Reference: 140-02-01-00031**

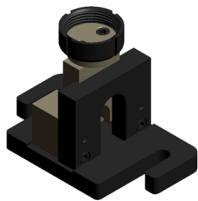
Base holder for angle punching. Suitable for punches and dies of different diameters, exchangeables.



Units per machine	Max. Hole diameter	Min. Hole diameter	Weight
1	28mm	2mm	7 Kg

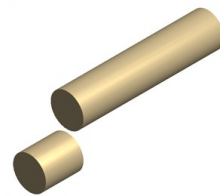
## Accessories for Hydraulic iron worker MX340

### ► Round bar cutting tooling. MX340



**Reference: 140-02-01-00035**

Tooling for cutting round bar from 3mm up to 35mm.



Units per machine	Max. Cutting diameter	Min. Cutting diameter	Weight
1	35mm	3mm	15 Kg

### ► Locks punch and die MX340



**Reference: 140-02-01-00036**

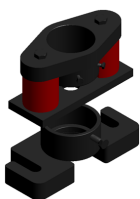
Set for making the lock hole in metal sheet.

Necessary complements: CAB60 and TAP40



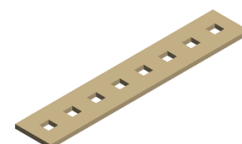
Parts per set	Max. Thickness	Weight
2	6mm	1 Kg

### ► Flattening tooling MX340



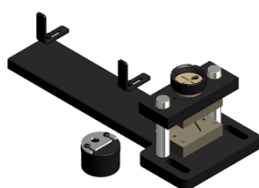
**Reference: 140-02-01-00039**

It's an extractor which acts as the flat bar holder at the punching time to prevent the flat bar from deformation while being punched.



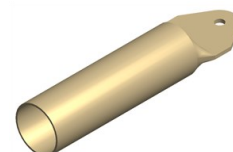
Parts per tooling	Flat Bar Max Thickness	Weight
3	15mm	15 Kg

### ► Fence post end tooling MX340



**Reference: 140-02-01-00040**

Tooling to flatten and punch the pipe for fences. It admits different pipe diameters. Exchangeable hole size.



Parts per tooling	Max. Pipe diameter	Min. Pipe diameter	Hole diameter	Weight
2	50mm	10mm	Intercambiable	23 Kg

## Hydraulic iron worker

### ► Hydraulic iron worker MX700

The Hydraulic Punching Machine MX700 Nargesa main feature is its versatility. It can make several functions as punching operations in metal sheet, flat bar, pipe, angle, U-T-UPN-IPN profiles, folding, cutting, tube notching, inlaying, punching, bending sheets, stamping... It can be suitable for any other kind of tooling.

<b>Reference</b>	<b>100-02-02-003</b>
<b>Engine power</b>	5,5 KW / 7,5 HP
<b>Three-phased tension</b>	400 V
<b>Hydraulic power</b>	70 Tn
<b>Working speed</b>	9 mm/s
<b>Return speed</b>	14 mm/s
<b>Punch displacement</b>	160 mm
<b>Neck</b>	350 mm
<b>Tooling support table</b>	600x350 mm
<b>Dimensions</b>	1150x1390x2080 mm
<b>Weight</b>	2000 Kg



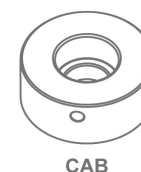
## Accessories for Hydraulic iron worker MX700

### ► Fitting nuts for punches MX700



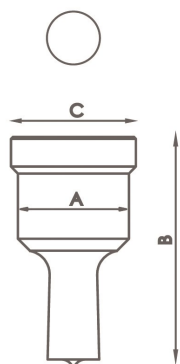
Reference	Type	Fitting nuts for punches
120-02-02-00312	TAP28	Fitting nuts for punches N28 <i>Standard</i>
140-02-02-00011	TAP40	Fitting nuts for punches N40
140-02-02-00015	TAP50	Fitting nuts for punches N50
140-02-02-00014	TAP60	Fitting nuts for punches N60
140-02-02-00010	TAP75	Fitting nuts for punches N75
140-02-02-00012	TAP100	Fitting nuts for punches N100
125-02-02-00042	ATAP	Fitting part for TAP100

### ► Fitting parts for dies MX700



Reference	Type	Fitting for dies
120-02-02-00313	N46	Fitting for dies N46 <i>Standard</i>
140-02-02-00019	N60	Fitting for dies N60
140-02-02-00028	N78	Fitting for dies N78
140-02-02-00044	N85	Fitting for dies N85
140-02-02-00029	N100	Base holder for dies N100
140-02-02-00027	N125	Base holder for dies N125

### ► Standard round punches MX700

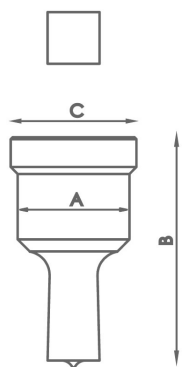


Type	Available sizes in mm Ø	A	B	C
N28	3/3'5/4/4'5/5/5'5/6/6'5/7/7'5/8/8'5 9mm up to 28mm from 0'5 in 0'5mm	28 mm	58 mm	31,5 mm
N40	29/30/31/32/33/34/35/36/37/38/39/40mm	40 mm	64 mm	43,5 mm
N50	41/42/43/44/45/46/47/48/49/50mm	50 mm	58 mm	54 mm
N60	52/54/56/58/60mm	60 mm	58 mm	64 mm
N75	62/64/66/68/70/72/74mm	75 mm	58 mm	79 mm
N100	76/78/80/82/84/86/88/90/92/94/96/98/100mm	100 mm	58 mm	104 mm

*For different sizes, please ask the manufacturer.*

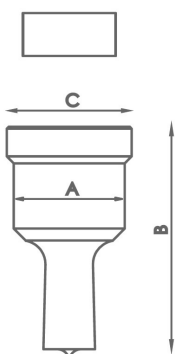
## Accessories for Hydraulic iron worker MX700

### ► Standard square punches MX700



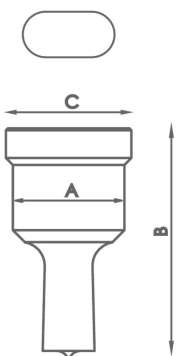
Type	Available sizes in mm Ø	A	B	C
N28	4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20mm	28 mm	58 mm	31,5 mm
N40	21/22/24/26/28mm	40 mm	64 mm	43,5 mm
N50	31/33/35mm	50 mm	58 mm	54 mm
N75	40/44/48/53mm	75 mm	58 mm	79 mm
N100	58/64/70mm	100 mm	58 mm	104 mm
<i>For different sizes, please ask the manufacturer.</i>				

### ► Standard rectangular punches MX700



Type	Available sizes in mm Ø	A	B	C
N28	7x10/7x15/9x13/9x19/11x17/11x23 13x19/15x21mm	28 mm	58 mm	31,5 mm
N40	13x25/15x27/17x25/19x30/20x34mm	40 mm	64 mm	43,5 mm
N50	25x43mm	50 mm	58 mm	54 mm
N75	25x70mm	75 mm	58 mm	79 mm
N100	25x96mm	100 mm	58 mm	104 mm
<i>For different sizes, please ask the manufacturer.</i>				

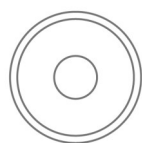
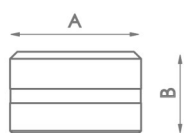
### ► Standard oval punches MX700



Type	Available sizes in mm Ø	A	B	C
N28	7x10/7x15/7x20/9x13/9x19/11x17/11x23/13x18 13x22/13x27/15x20/15x24/15x27/17x22/17x26 19x26/21x27mm	28 mm	58 mm	31,5 mm
N40	13x31/15x31/17x31/17x40/19x31 19x40/21x31/21x40mm	40 mm	64 mm	43,5 mm
N50	25x45/25x50mm	50 mm	58 mm	54 mm
N75	27x63/27x75mm	75 mm	58 mm	79 mm
N100	30x87/30x100mm	100 mm	58 mm	104 mm
<i>For different sizes, please ask the manufacturer.</i>				

## Accessories for Hydraulic iron worker MX700

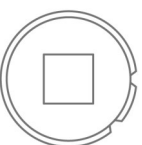
### ► Standard round dies MX700



Type	Available sizes in mm	A	B
N46	3/3,5/4/4,5/5/5,5/6/6,5/7/7,5/8/8,5 9mm up to 28mm from 0,5 in 0,5mm	46 mm	28,5 mm
N60	29/30/31/32/33/34/35/36/37/38/39/40mm	60 mm	32 mm
N78	41/42/43/44/45/46/47/48/49/50mm	78 mm	28,5 mm
N100	52/54/56/58/60/62/64/66/68/70/72/74mm	100 mm	28,5 mm
N125	76/78/80/82/84/86/88/90/92/94/96/98/100mm	125 mm	28,5 mm

*For different sizes, please ask the manufacturers.*

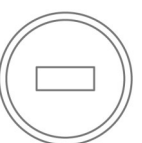
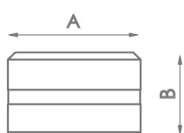
### ► Standard square dies MX700



Type	Available sizes in mm	A	B
N46	4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20mm	46 mm	28,5 mm
N60	21/22/24/26/28mm	60 mm	32 mm
N78	31/33/35mm	78 mm	28,5 mm
N100	40/44/48/53mm	100 mm	28,5 mm
N125	58/64/70mm	125 mm	28,5 mm

*For different sizes, please ask the manufacturers.*

### ► Standard rectangular dies MX700

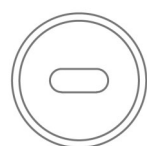
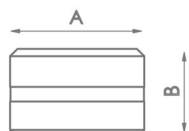


Type	Available sizes in mm	A	B
N46	7x10/7x15/9x13/9x19/11x17/11x23/13x19/13x25/ 15x21mm	46 mm	28,5 mm
N60	15x27/17x25/19x30/20x34mm	60 mm	32 mm
N78	25x43mm	78 mm	28,5 mm
N100	25x70mm	100 mm	28,5 mm
N125	25x96mm	125 mm	28,5 mm

*For different sizes, please ask the manufacturers.*

## Accessories for Hydraulic iron worker MX700

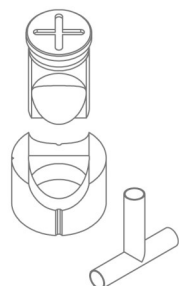
### ► Oval dies MX700



Type	Available sizes in mm	A	B
N46	7x10/7x15/7x20/9x13/9x19/11x17/11x23/13x18/13x22/13x27 15x20/15x24/15x27/17x22/17x26/19x26/21x27mm	46 mm	28,5 mm
N60	13x31/15x31/17x31/17x40/19x31/19x40/21x31/21x40mm	60 mm	32 mm
N78	25x45/25x50mm	78 mm	28,5 mm
N100	27x63/27x75mm	100 mm	28,5 mm
N125	30x87/30x100mm	125 mm	28,5 mm

*For different sizes, please ask the manufacturers.*

### ► Tube notching tooling MX700



Reference	Available sizes in mm	Required fitting	
MAN28	Tube from 16 to 28mm	TAP 28	CAB 46
MAN40	Tube from 28,5 to 40mm	TAP 40	CAB 60
MAN50	Tube from 40,5 to 50mm	TAP 50	CAB 78
MAN60	Tube from 50,5 to 60mm	TAP 60	CAB 85

*For different sizes, please ask the manufacturers.*

### ► Corner rounding tooling MX700

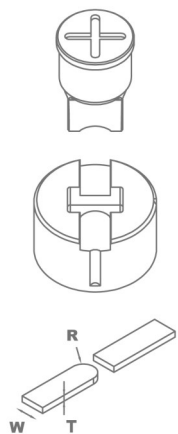


Reference	Available sizes in mm	Required fitting	
MRE28	Radius from 3 to 15mm	TAP 28	CAB 46
MRE40	Radius from 16 to 26mm	TAP 40	CAB 60
MRE50	Radius from 26,5 to 32mm	TAP 50	CAB 78

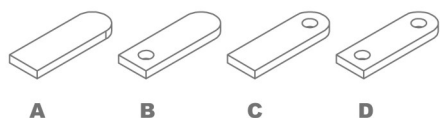
*For different sizes, please ask the manufacturers.*

## Accessories for Hydraulic iron worker MX700

### ► Flat bar round end tooling R1



Reference	Model	Width size	Required fitting
MOR1-35A	A	From 20 to 35mm	TAP28 / TAP40
MOR1-35B	B	From 20 to 35mm	TAP28 / TAP40
MOR1-35C	C	From 20 to 35mm	TAP28 / TAP40
MOR1-35D	D	From 20 to 35mm	TAP28 / TAP40
MOR1-50A	A	From 40 to 50mm	TAP50 / TAP60 with ATAP
MOR1-50B	B	From 40 to 50mm	TAP50 / TAP60 with ATAP
MOR1-50C	C	From 40 to 50mm	TAP50 / TAP60 with ATAP
MOR1-50D	D	From 40 to 50mm	TAP50 / TAP60 with ATAP



For different sizes, please ask the manufacturer.

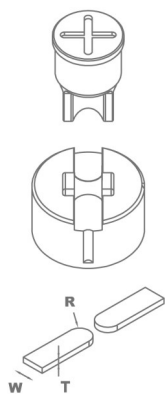
When placing order it must be specified the REFERENCE, MODEL, R (radius), W (flat bar width), T (flat bar thickness)

In models B, C and D specify diameter of the hole.

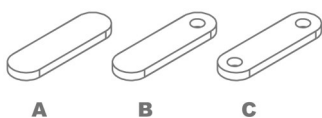
The ear shaped legth is always adjustable.

Production capacity: 450 to 600 parts per hour.

### ► Flat bar round end tooling R2



Reference	Model	Width size	Required fitting
MOR2-35A	A	From 20 to 35mm	TAP28 / TAP40
MOR2-35B	B	From 20 to 35mm	TAP28 / TAP40
MOR2-35C	C	From 20 to 35mm	TAP28 / TAP40
MOR2-50A	A	From 40 to 50mm	TAP50 / TAP60 with ATAP
MOR2-50B	B	From 40 to 50mm	TAP50 / TAP60 with ATAP
MOR2-50C	C	From 40 to 50mm	TAP50 / TAP60 with ATAP



For different sizes, please ask the manufacturer.

When placing order it must be specified the REFERENCE, MODEL, R (radius), W (flat bar width), T (flat bar thickness)

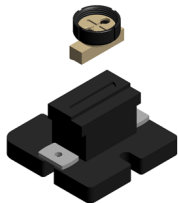
In models B and C specify hole diameter.

The ear shaped legth is always adjustable.

Production capacity: 450 to 600 parts per hour.

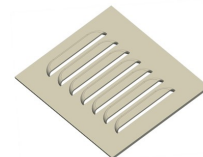
## Accessories for Hydraulic iron worker MX700

### ► Ventilation grip tooling MX700



**Reference: 140-02-02-00031**

Tooling to make ventilation grips in metal sheet.  
Adjustable amount of punchings which are to be made one by one.



Units per machine	Punching size	Max. Thickness.	Weight
1	100x20mm	2mm	21Kg

### ► Locks punch and die MX700



**Reference: 140-02-01-00036**

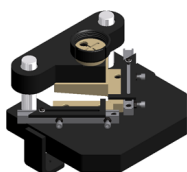
Set of punch and die to make the locks punching in metal sheet.

Necessary complements: CAB60 and TAP40



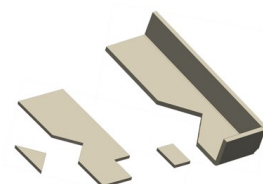
Pieces per set	Max. Thickness	Weight
2	6mm	1 Kg

### ► Stripping tooling 90° adjustable 150x150 MX700



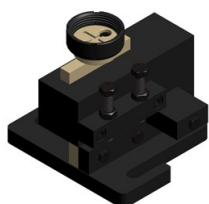
**Reference: 140-02-02-00001**

Stripping tooling for metal sheet, angle, etc...Adjustable up to 150x150mm to 90° fixed.



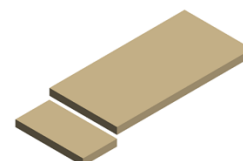
Units per machine	Max. Cutting capacity	Weight
1	150x150x8	38 Kg

### ► Flat bar cutting tooling 200 x 20. MX700



**Reference: 140-02-02-00002**

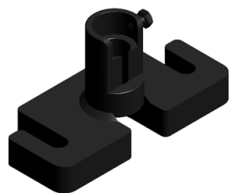
Tooling for cutting flat bar or metal sheet from 0.8mm up to 20mm Thickness.



Units per machine	Max. Cutting Capacity	Weight
1	200x20mm	54 Kg

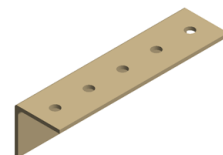
## Accessories for Hydraulic iron worker MX700

### ► Angle and U profile punching machine MX700



**Reference: 140-02-01-00031**

Base holder for punching angles. The punches and dies of different diameters are exchangeable.



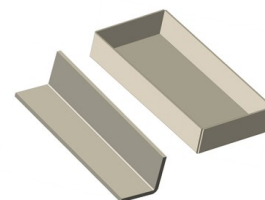
Units per machine	Max. Hole Diameter	Min. Hole Diameter	Weight
1	28mm	2mm	7 Kg

### ► Folding tooling 170mm. MX700



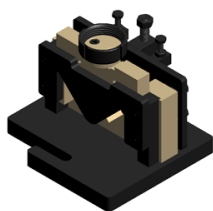
**Reference: 140-02-02-00034**

Tooling for folding sheet and flat bar up to 170mm. 88° punch. Dies with V for 56mm and V for 26m.



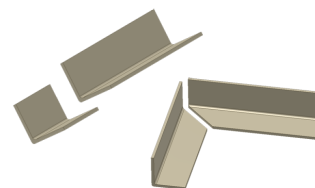
Units per machine	Max. Folding Length	Max. Folding Thickness	Weight
1	170mm	8 to 12mm	13 Kg

### ► Angle cutting tooling. MX700



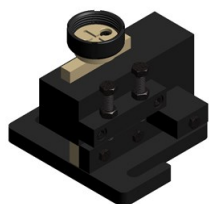
**Reference: 140-02-02-00036**

Tooling for cutting angles from 90° up to 45°.



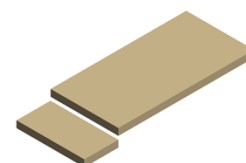
Units per machine	Max cutting capacity Straight cut	Max. Cutting capacity Miter cut	Weight
1	80x80mm	50x50mm	32 Kg

### ► Flat bar cutting tooling 100 x 12. MX700



**Reference: 140-02-02-00037**

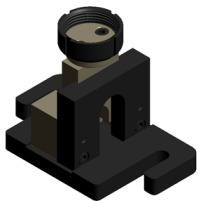
Tooling for cutting metal sheet or flat bar from 0.8mm up to 12mm thickness.



Units per machine	Max. Cutting capacity	Weight
1	100x12mm	29 Kg

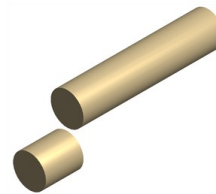
## Accessories for Hydraulic iron worker MX700

### ► Round bar cutting tooling MX700



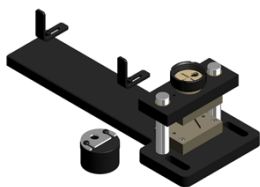
**Reference: 140-02-02-00038**

Tooling for cutting round bar from 3mm up to 35mm.



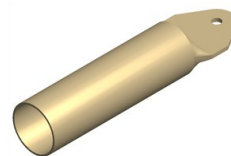
Units per machine	Max. Cutting diameter	Min. Cutting diameter	Weight
1	35mm	3mm	16 Kg

### ► Fence post end tooling MX700



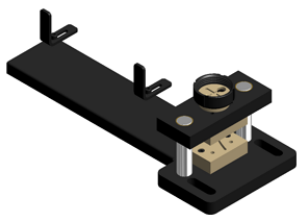
**Reference: 140-02-02-00039**

Tooling to flatten and punch the pipe for fences. It admits different pipe diameters. Exchangeable hole size.



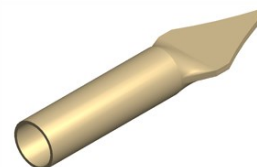
Pieces by tooling	Pipe Max. Diameter	Min. Pipe diameter	Hole Diameter	Weight
2	50mm	10mm	Exchangeable	24 Kg

### ► Arrow tooling for pipes MX700



**Reference: 140-02-02-00040**

Tooling for flattening and cutting pipes in arrow shapes. Suitable for different diameters.



Units per machine	Max. Pipe Diameter	Min. Pipe Diameter	Weight
1	30x2mm	10x2mm	20 Kg

### ► Arrow tooling for metal sheet MX700



**Reference: 140-02-02-00041**

Tooling for punching metal sheet in arrow shapes for fences.



Units per machine	Sheet Max. Thickness	Weight
1	3mm	22 Kg

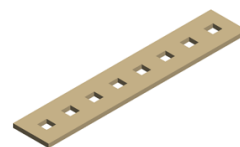
## Accessories for Hydraulic iron worker MX700

### ► Flattening tooling MX700



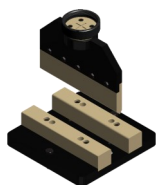
**Reference: 140-02-02-00042**

It's an extractor which acts as the flat bar holder at the punching time to prevent the flat bar from deformation while being punched.



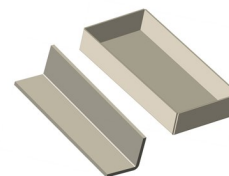
Pieces per tooling	Bar or flat bar max. thickness	Weight
1	15mm	15 Kg

### ► Folding tooling 350mm. MX700



**Reference: 140-02-02-00043**

Tooling to fold metal sheet and flat bar up to 350mm.  
Punch: 88°. Die with adjustable V of 120mm, 80mm, 40mm and 16mm.



Units per machine	Max. Folding Length	Max. Folding Thicknesss	Weight
1	350mm	20mm	45 Kg

## Shears

### ► Hydraulic shears C2006CNC

NEW vertical cut shears C2006CNC Nargesa, from the latest generation, are made with stabilized and welded steel which permits to stand big effort with no deformation.

<b>Reference</b>	<b>100-06-01-001</b>
<b>Engine power</b>	5,5 KW / 7,5 HP
<b>Three-phased tension</b>	230 / 400 V
<b>Cutting Capacity: mild steel</b>	6 mm (450N/mm <sup>2</sup> )
<b>Cutting capacity: stainless steel</b>	4 mm (700N/mm <sup>2</sup> )
<b>N° of hammers</b>	10 units
<b>Cutting length</b>	2030 mm
<b>Neck</b>	190 mm
<b>Gauge displacement</b>	700 mm
<b>Strokes per minute</b>	10 strokes
<b>Position accuracy and repeatability</b>	+/- 0,1 mm
<b>Dimensions</b>	2865x2360x1770 mm
<b>Weight</b>	5100 Kg



### ► Hydraulic shears C3006CNC

NEW vertical cut shears C3006CNC Nargesa, from the latest generation, are made with stabilized and welded steel which permits to stand big effort with no deformation.

<b>Reference</b>	<b>100-06-02-003</b>
<b>Engine power</b>	9,2 KW / 12 HP
<b>Three-phased tension</b>	230 / 400 V
<b>Cutting Capacity: mild steel</b>	6 mm (450N/mm <sup>2</sup> )
<b>Cutting capacity: stainless steel</b>	4 mm (700N/mm <sup>2</sup> )
<b>N° of hammers</b>	15 units
<b>Cutting length</b>	3030 mm
<b>Neck</b>	173 mm
<b>Gauge displacement</b>	700 mm
<b>Strokes per minute</b>	12 strokes
<b>Position accuracy and repeatability</b>	+/- 0,1 mm
<b>Dimensions</b>	3865x2457x1816 mm
<b>Weight</b>	7500 Kg



## Accessories for Shears

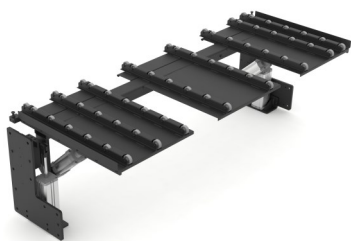
### ► Sheet metal back support C2006 CNC

The C2006 CNC sheet metal back support is a holder to prevent sheet metal bending, thus ensuring that it has good contact with the stop.

It is equipped with 49 wheels placed in 7 rows at different distances. These are specifically distributed to provide optimum support on sheets of different sizes.

The support also offers two options to take the material off. In the first choice, when it has performed the support function, it descends and tilts to be able to extract the sheet metal from the rear of the machine. In the second option, after cutting, the support rises and the stop pushes the sheet for its extraction from the front of the machine.

- Pneumatic operation through an external air supply.
- Pressure switch and pressure regulator supplied with the accessory
- Integrated pneumatic system
- Ball recirculation guide for up and down movement



<b>Reference</b>	<b>140-06-01-00002</b>
<b>Work pressure</b>	4/7 Kg.
<b>Dimensions</b>	2260x718x872 mm
<b>Weight</b>	240 Kg

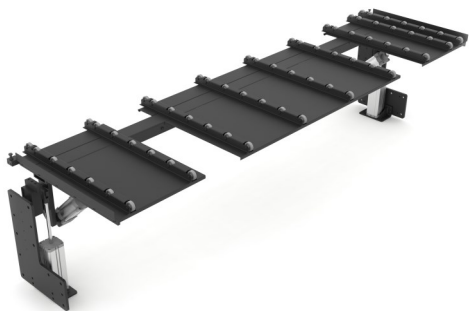
### ► Sheet metal back support C3006 CNC

The C3006 CNC sheet metal back support is a holder to prevent sheet metal bending, thus ensuring that it has good contact with the stop.

It is equipped with 70 wheels placed in 10 rows at different distances. These are specifically distributed to provide optimum support on sheets of different sizes.

The support also offers two options to take the material off. In the first choice, when it has performed the support function, it descends and tilts to be able to extract the sheet metal from the rear of the machine. In the second option, after cutting, the support rises and the stop pushes the sheet for its extraction from the front of the machine.

- Pneumatic operation through an external air supply.
- Pressure switch and pressure regulator supplied with the accessory
- Integrated pneumatic system
- Ball recirculation guide for up and down movement



<b>Reference</b>	<b>140-06-02-00002</b>
<b>Work pressure</b>	4/7 Kg.
<b>Dimensions</b>	3260x913x760 mm
<b>Weight</b>	250 Kg.

## Press Brakes

### ► Hydraulic press brake MP1500CNC

The hydraulic sheet metal brake MP1500CNC Nargesa, from the last generation, has been made of welded and stabilized steel which permits it to stand big efforts without any kind of distortion.

<b>Reference</b>	<b>100-05-09-001</b>
<b>Engine Power</b>	5,5 KW / 7,5 CV
<b>Three-Phased tension</b>	230 / 400 V
<b>Hydraulic power</b>	40 Tn
<b>Punch working speed</b>	8,3 mm/s
<b>Punch return speed</b>	120 mm/s
<b>Punch lowering speed</b>	200 mm/s
<b>Max. Punch displacement</b>	200 mm
<b>Inner folding length</b>	1250 mm
<b>Total folding length</b>	1500 mm
<b>Back gauge displacement</b>	600 mm
<b>Neck</b>	270 mm
<b>Dimensions</b>	2106x1638x2205 mm
<b>Weight</b>	4900 Kg



### ► Hydraulic press brake MP3003CNC

The hydraulic sheet metal brake MP3003CNC Nargesa, from the last generation, has been made of welded and stabilized steel which permits it to stand big efforts without any kind of distortion.

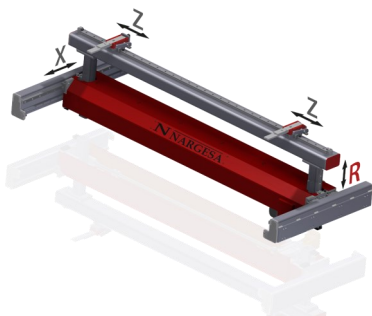
<b>Reference</b>	<b>100-05-06-002</b>
<b>Engine Power</b>	9,5 KW / 12 HP
<b>Back gauge engine power</b>	0,75 KW / 1 HP
<b>Three-Phased tension</b>	230 / 400 V
<b>Hydraulic power</b>	120 Tn
<b>Punch working speed</b>	6,7 mm/s
<b>Punch return speed</b>	43,4 mm/s
<b>Punch lowering speed</b>	26,8 mm/s
<b>Max. Punch displacement</b>	160 mm
<b>Inner folding length</b>	2700 mm
<b>Total folding length</b>	3050 mm
<b>Back gauge displacement</b>	600 mm
<b>Neck</b>	320 mm
<b>Dimensions</b>	3530x1500x2800 mm
<b>Weight</b>	9100 Kg



## Accessories for Press brakes

### ► R axis

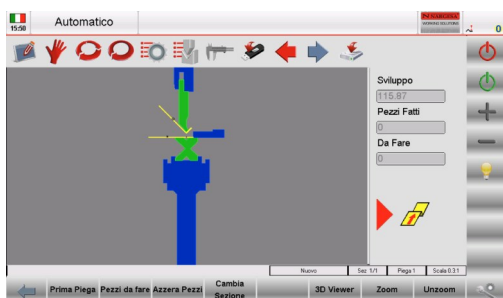
The R Axis is not supplied as standard with the machine; the client may include it when purchasing the machine or add it later. This Axis has a Canopen communication system that enables it to be installed in a rapid and simple manner to the machine. The operator needs only to connect it to the motor of the X axis and Nargesa's technicians will configure the CNC remotely.



<b>Reference</b>	<b>140-05-OP-00001</b>
<b>High speed measurement search</b>	130 mm/seg
<b>Servo motor</b>	1 Nm a 5000 rpm
<b>R axis limit</b>	150 mm
<b>Mechanical precision</b>	0,05 mm

### ► Graphs and folding calculation on CNC

The user can incorporate the **optional software** on the press brake CNC and buy it later on. There is also the possibility of carrying out the remote software installation, by our Nargesa Technicians.



<b>Reference</b>	<b>140-05-OP-00002</b>
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### ► Z1-Z2 axis

The Z1-Z2 axis enables us to optimize the set up time of the machine. The CNC optimizes the position of gauges Z1 and Z2 according to the dimensions of the piece and the position of the tools.

The parallelism of the gauge needles with the folding unit of the press brake fits automatically by means of micrometers to guarantee the maximum accuracy.



<b>Reference</b>	<b>140-05-OP-00004</b>
<b>High search speed of size</b>	400 mm/seg
<b>Linear guides for recirculation of high precision balls</b>	
<b>Servo motors</b>	1 Nm a 5000 rpm
<b>Stroke axis Z1, Z2</b>	2600 mm
<b>Mechanical precision</b>	0,05 mm

\* In case of choosing this option the machine will be delivered with the ESA 640 CNC,

\* This option is only available if you have chosen the following optional accessories: R-axis and Graphics and CNC bending calculation

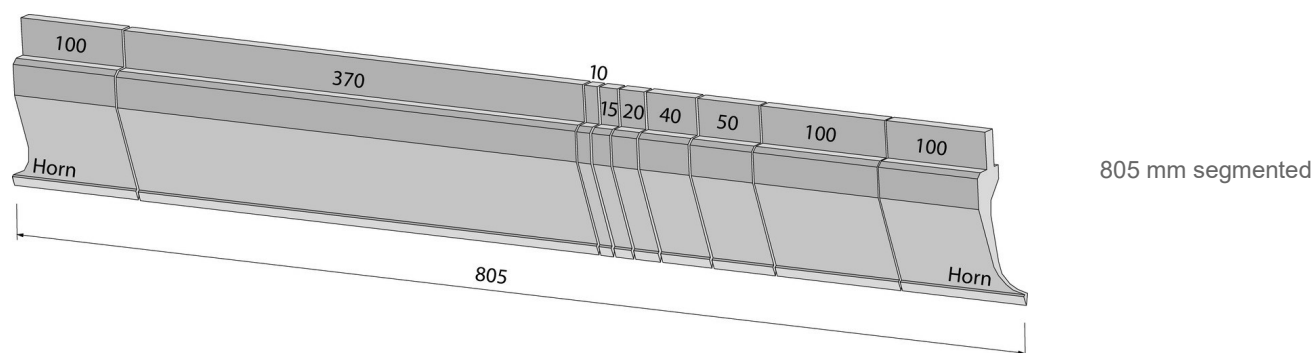
## Accessories for Press brakes

### ► Punches

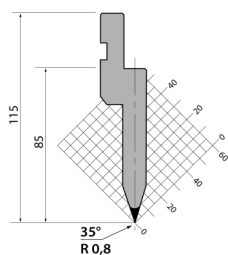
All accessories for Nargesa Pres Brakes are manufactured according to international standards. Therefore, guaranteeing high resilience and tensile strength.

*For different sizes, please ask the manufacturer.*

Materia Type	Mechanical resistance of the material and the tool body	Hardness of the material and the tool body	Hardness of the operating surfaces after induction hardening
42CrM04	900 - 1150 N/mm <sup>2</sup>	29.1 - 36.9 HRC	54 - 60 HRC
C45	560 - 710 N/mm <sup>2</sup>	12 - 15.5 HRC	54 - 60 HRC



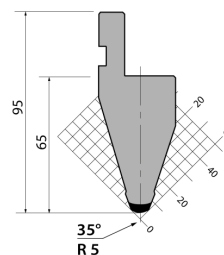
### PU.85.35.R08



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

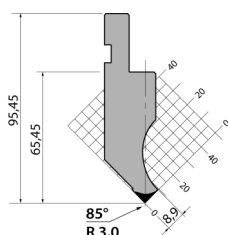
### P.95.35.R5



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

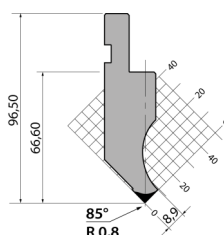
### PK.95.85.R3



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

### P.97.85.R08

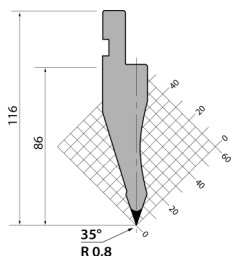


#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

## Accessories for Press brakes

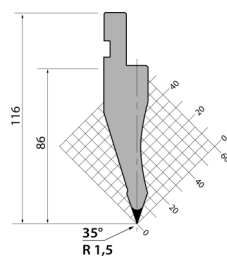
### P.116.35.R08



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

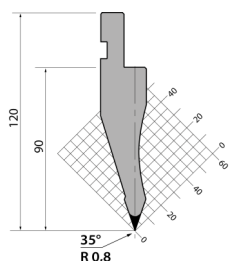
### P.116.35.R15



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

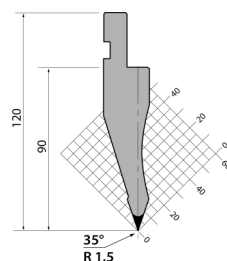
### P.120.35.R08



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

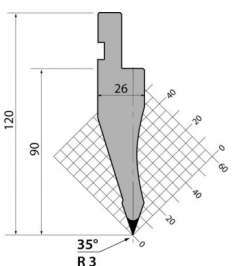
### P.120.35.R15



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

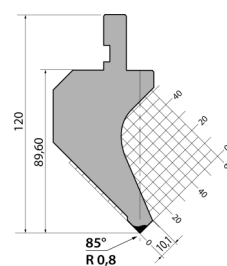
### P.120.35.R3



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

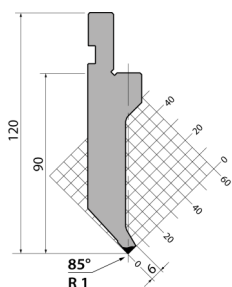
### PK.120.85.R08



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

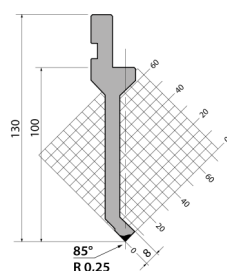
### P.120.85.R1



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

### P.130.85.R025



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

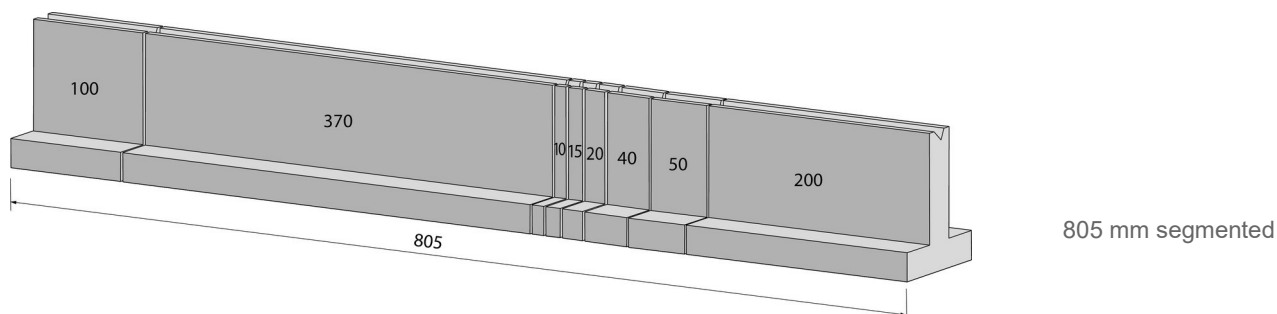


## Accessories for Press brakes

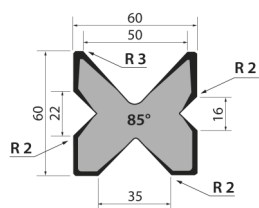
### ► Dies

For different sizes, please ask the manufacturer.

Materia Type	Mechanical resistance of the material and the tool body	Hardness of the material and the tool body	Hardness of the operating surfaces after induction hardening
42CrM04	900 - 1150 N/mm <sup>2</sup>	29.1 - 36.9 HRC	54 - 60 HRC
C45	560 - 710 N/mm <sup>2</sup>	12 - 15.5 HRC	54 - 60 HRC



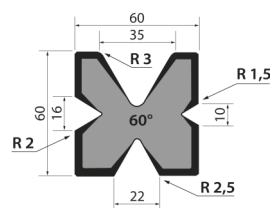
### M.460.R



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

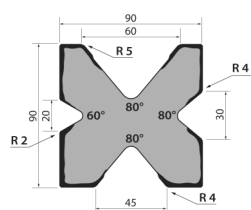
### M.460.60



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

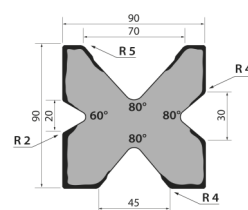
### M.490



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

### M.490.70

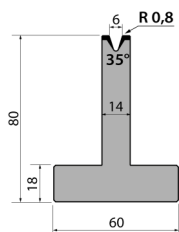


#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

## Accessories for Press brakes

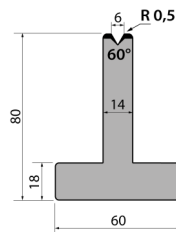
### T80.06.35



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

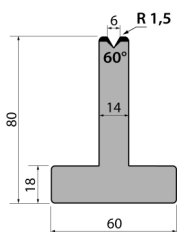
### T80.06.60



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

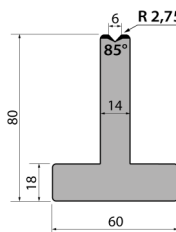
### TR80.06.60



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

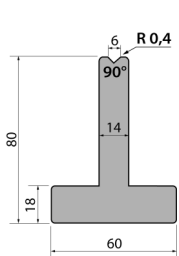
### T80.06.85



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

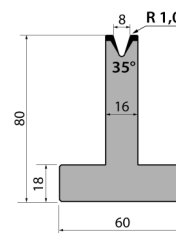
### T80.06.90



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.  
900 mm.

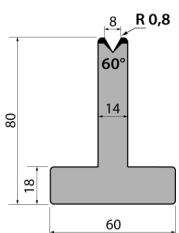
### T80.08.35



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

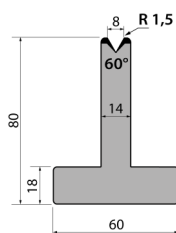
### T80.08.60



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

### TR80.08.60

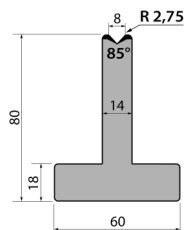


#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

## Accessories for Press brakes

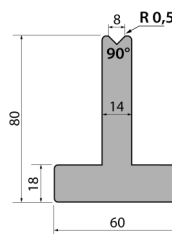
### T80.08.85



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

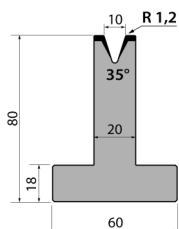
### T80.08.90



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.  
900 mm.

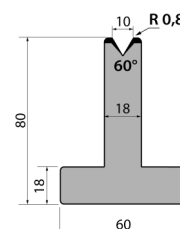
### T80.10.35



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

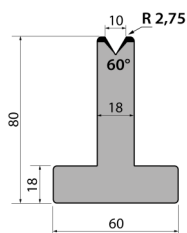
### T80.10.60



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

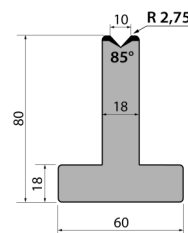
### TR80.10.60



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

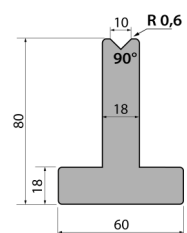
### T80.10.85



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

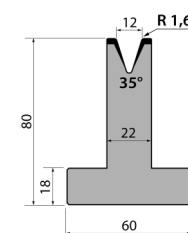
### T80.10.90



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

### T80.12.35

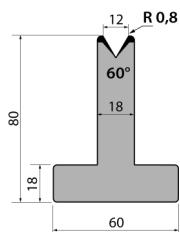


#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

## Accessories for Press brakes

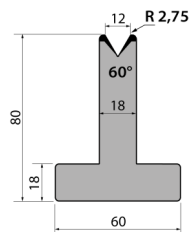
### T80.12.60



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

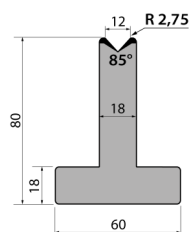
### TR80.12.60



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

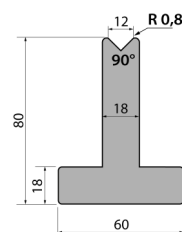
### T80.12.85



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

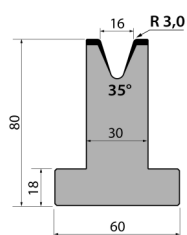
### T80.12.90



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

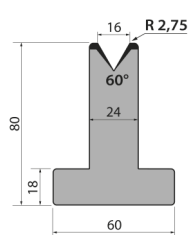
### T80.16.35



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

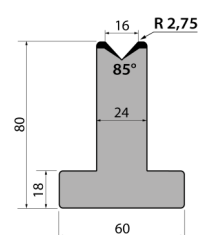
### T80.16.60



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

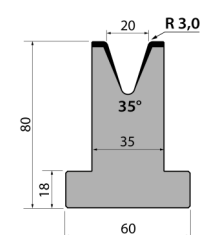
### T80.16.85



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

### T80.20.35

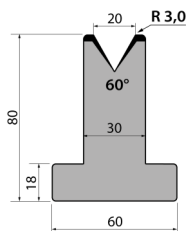


#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

## Accessories for Press brakes

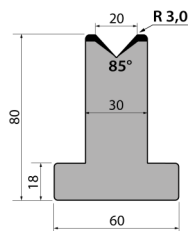
### T80.20.60



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

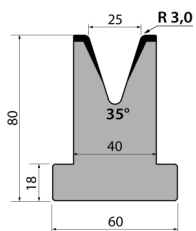
### T80.20.85



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

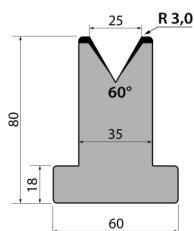
### T80.25.35



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

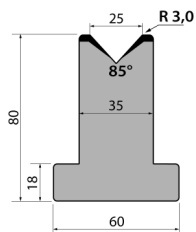
### T80.25.60



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

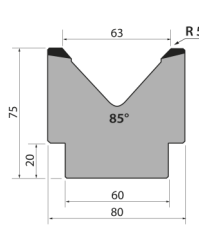
### T80.25.85



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

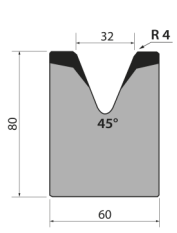
### M75.85.63



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

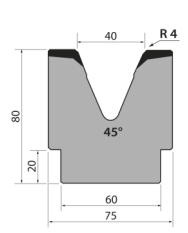
### M80.45.32



#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

### M80.45.40

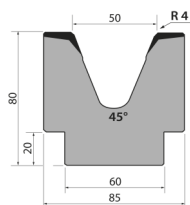


#### Length

835 mm.  
415 mm.  
795 mm. Seg.  
805 mm. Seg.

## Accessories for Press brakes

### M80.45.50



#### Length

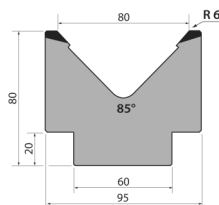
835 mm.

415 mm.

795 mm. Seg.

805 mm. Seg.

### M80.85.80



#### Length

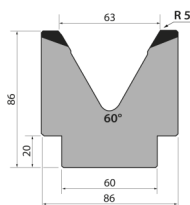
835 mm.

415 mm.

795 mm. Seg.

805 mm. Seg.

### M86.60.63



#### Length

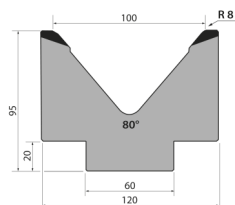
835 mm.

415 mm.

795 mm. Seg.

805 mm. Seg.

### M95.80.100



#### Length

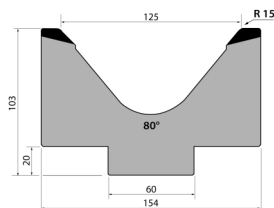
835 mm.

415 mm.

795 mm. Seg.

805 mm. Seg.

### MK103.80.125



#### Length

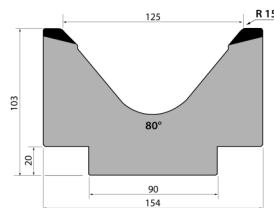
835 mm.

415 mm.

795 mm. Seg.

805 mm. Seg.

### M103.80.125



#### Length

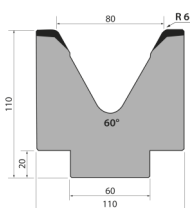
835 mm.

415 mm.

795 mm. Seg.

805 mm. Seg.

### M110.60.80



#### Length

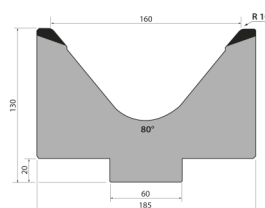
835 mm.

415 mm.

795 mm. Seg.

805 mm. Seg.

### MK130.80.160



#### Length

835 mm.

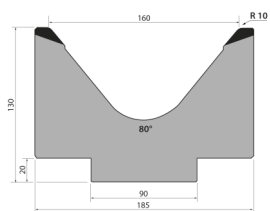
415 mm.

795 mm. Seg.

805 mm. Seg.

## Accessories for Press brakes

### M130.80.160



#### Length

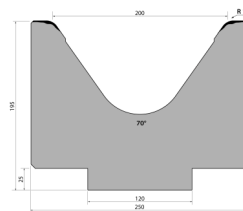
835 mm.

415 mm.

795 mm. Seg.

805 mm. Seg.

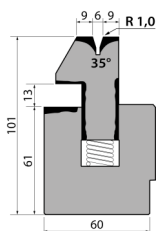
### M195.70.200



#### Length

415 mm.

### S101.35.06

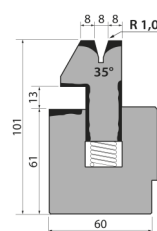


#### Length

835 mm.

415 mm.

### S101.35.08

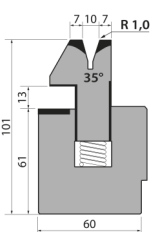


#### Length

835 mm.

415 mm.

### S101.35.10

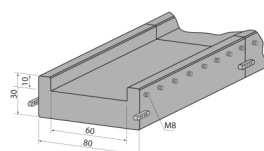


#### Length

835 mm.

415 mm.

### Dies holder C1050/RS



#### Length

1050 mm.

520 mm.

## Consumables

### ► Hydraulic Oil SIL POWER HV46

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**Reference: 060-BA-00016**

Extreme Pressure hydraulic fluid for oleo dynamic circuits, power transmission systems that work under severe temperature and pressure conditions. Micro-filtered. It incorporates a viscosity level improver.

Container: 20L

*\* Recommended for Nargesa Press Brakes*

**Weight: 20 Kg**

### ► Hydraulic Oil SIL POWER HV68

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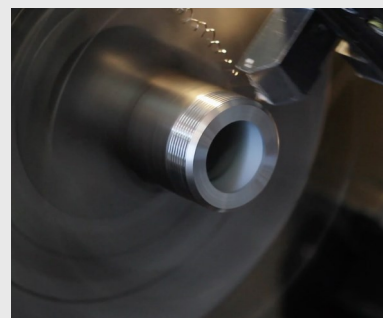
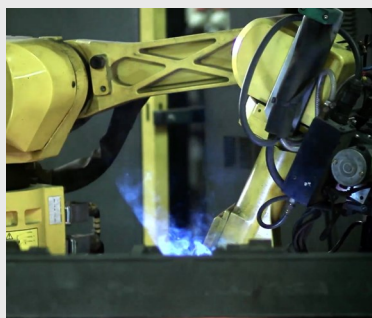
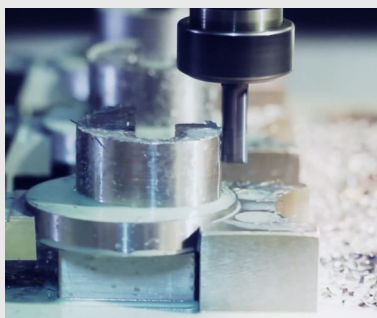


**Reference: 060-BA-00017**

Extreme Pressure hydraulic fluid for oleo dynamic circuits, power transmission systems that work under severe temperature and pressure conditions. Micro-filtered. It incorporates a viscosity level improver.

Container: 20L

**Weight: 20 Kg**



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