NARGESA®

# HORIZONTAL HYDRAULIC PRESS BRAKE

# PP200CNC

4.0 Technology

WARRANTY 3 THREE YEARS

MADE IN SPAIN MADE IN

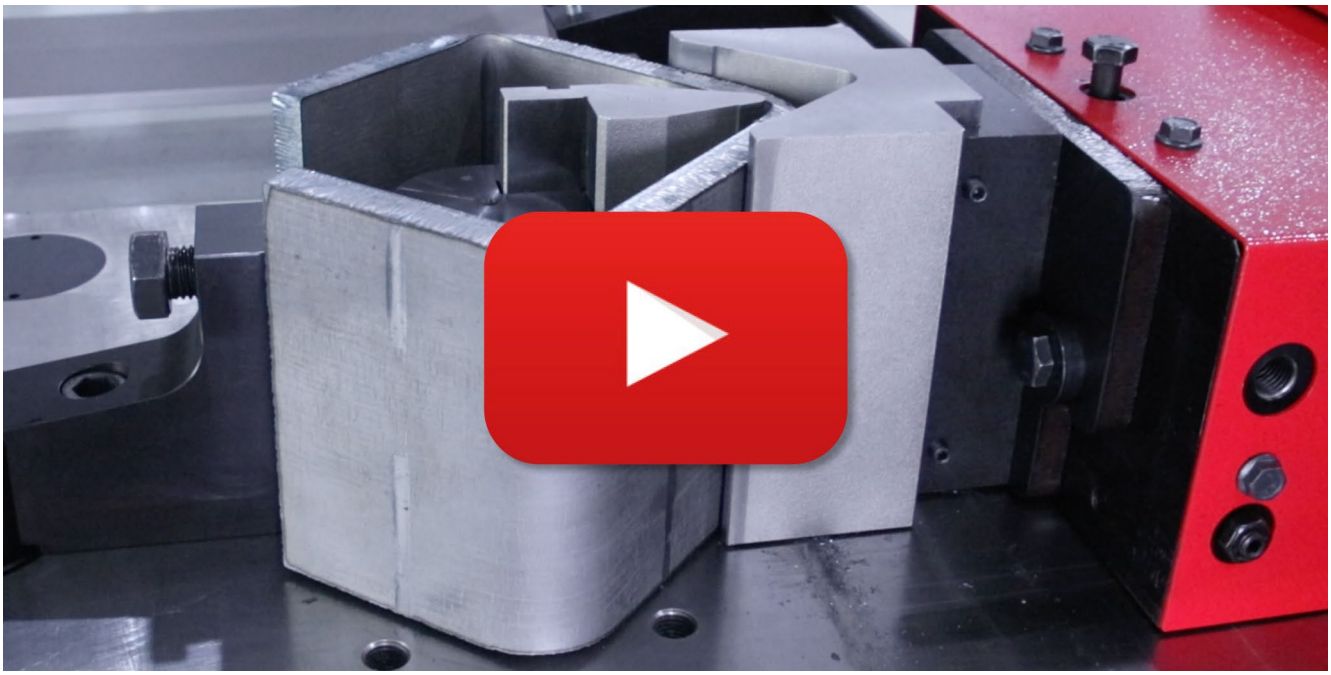
CE

AENOR
R&D&I MANAGEMENT
UNE 166002

50 years
manufacturing industrial machinery

## VIDEO MACHINE OPERATION

Machine performance video



## REQUEST QUOTATION

Please fill up the following form. We will contact you in less than 24 hours.
*Working days*

**REQUEST ADJUSTED QUOTATION**

## SOME OF OUR CUSTOMERS

Our customer's endorsement is our best business card

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

## CERTIFICATES AND ACCREDITATIONS

Some of the certificates that support our processes and benefit our customers

AENOR
R&D&I MANAGEMENT
UNE 166002

INNOVATIVE SME
Valid until May 31st 2026
GOBIERNO DE ESPAÑA · MINISTERIO DE CIENCIA E INNOVACIÓN

CONCESSION OF **AUTHORIZED EXPORTER** AUTHORIZATION
ESEAOR23000312

## SAMPLES OF JOBS DONE WITH HORIZONTAL HYDRAULIC PRESS BRAKE PP200CNC

**Pipe bending at fixed radius up to 150º could be considered one of the good features of these presses**

**Cutting, piercing and punching flat bars or metal sheets turn this horizontal bending press into a punching shears machine**

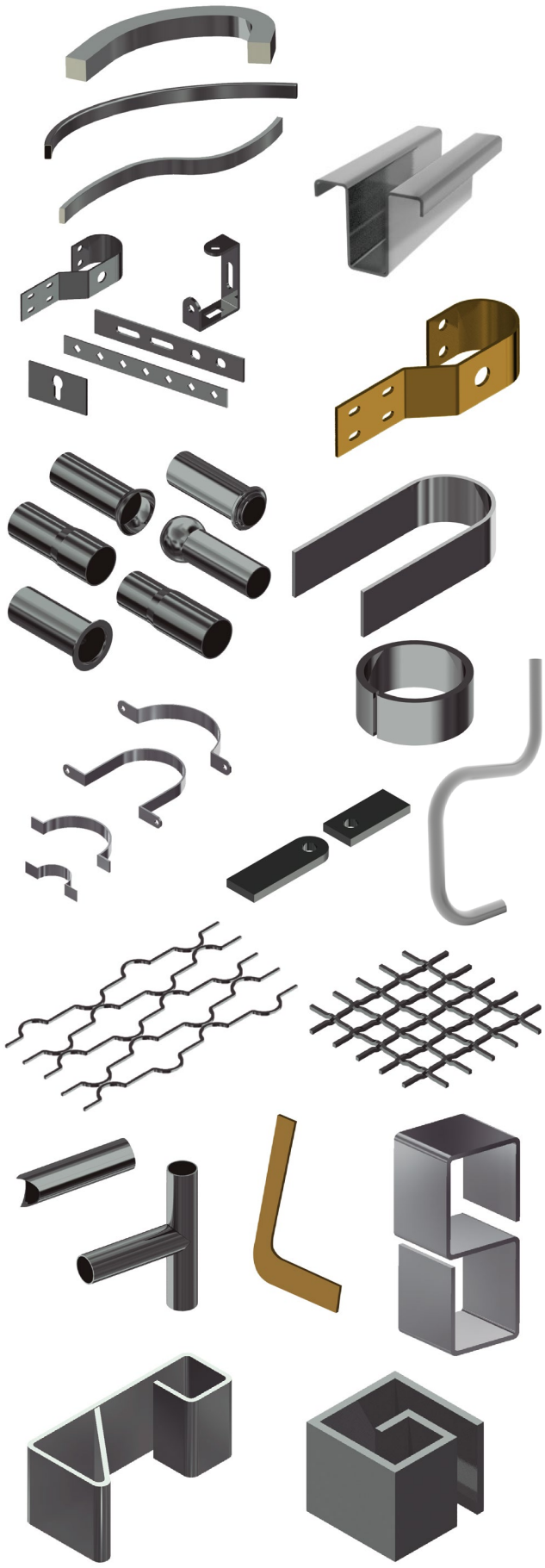
**Stretching and reducing pipes on the ends in order to make parts that fit or weld later**

**It is also a solution to bend different profiles at different radius and keeping the ends straight, like when manufacturing handles and flanges**

**Cold forge uses horizontal presses to make and form different shapes of balusters**

**Tube notching to assemble at 90 degrees**

**Folding operations with wrought iron machines permit to completely bend the parts or pieces unlike conventional flat bar section bending machines**



# TECHNICAL FEATURES

**Its robustness, versatility, easy handling and 4.0 Technology are just four of the best features our hydraulic horizontal bending machine has.**

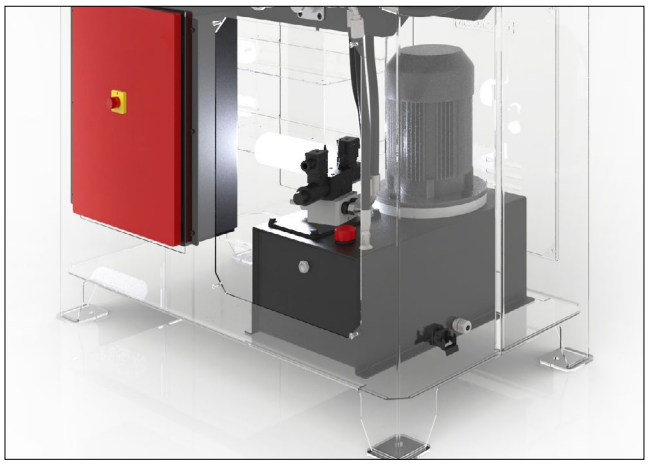
- Folding operation with no risk of damaging the punches and dies with thick materials unlike conventional press brakes.
- Folding flat bars and sheets into completely close shapes. Conception of this horizontal bending press brake allows to make folding operations impossible to be carried out on a conventional press brake.
- Fast tool change, punches and dies: This change does not take more than 30 seconds most of the times.
- A set of punch and folding die is supplied along with the machine.
- Performance by a safety double activation hold pedal.
- Low noise level, improving the quality of work of the operator.
- The machine is shipped completely assembled and ready to work.
- Palletized lower bench to easily transport the machine up to its working or storage site.
- Dies support shelf included.
- Lateral stop to place it right or left.

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

# The new ECO MODE of our latest products saves energy and contributes to the conservation of the environment

Nowadays, we know the remarkable importance of saving energy. This is the main reason why our new machinery incorporates an **"ECO mode"** that automatically disconnects the electrical parts that generate greater energy consumption if a period of inactivity is detected. Thus, when it is necessary to restart the operation, all you have to do is press the pedal to continue working.

**We strongly believe that this feature is a core point both for the savings of our clients and for the sustainability of our planet, since we are a company very committed to the environment.**

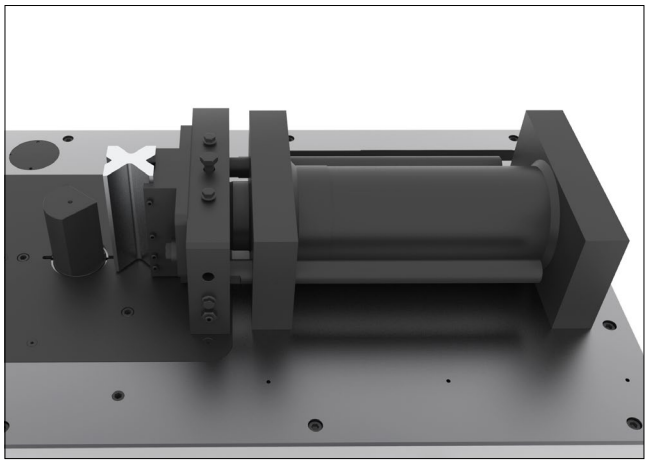


## Hydraulic System

Monoblock hydraulic power unit with positioning and pressure regulation valves

The hydraulic system can be regulated by means of pressure adjustment valves that affect the piston force.

Pressure regulator with pressure gauge that allows to control the force carried out at any time.



## Guided hydraulic cylinder

The hydraulic cylinder placed on the work bench allows us to transfer all the force directly on the tools.

Fully guided hydraulic piston to prevent any bending during the folding operation.

## Cylindrical fastening bolts

Cylindrical fastening bolts easy to install, to guarantee maximum firmness to the tools during machining operations.

Plugs to prevent the residues of the folding from entering inside the machine.

## Work table without frame

The work bench is frameless, this is great for the movement of the parts to be machined for there isn't any element that obstructs its movement. The table is manufactured in a 60mm monoblock of welded steel, stabilized and machined.

The operator's working position must be at the side of the machine for accomplishing a better vision and control, as well as greater safety for the user since he will be outside the radius of action of the tools.

## Hardox® 400 Anti-Wear Zone

Increased durability and resistance thanks to the anti-wear zone integrated into your workbench. It is made of Hardox® 400, a world-renowned steel known as the world's first wear-resistant steel.

Hardox® 400 resists wear due to friction of the material on the working area, which extends the durability of the press brake table. This feature is essential to ensure correct and accurate operation over time, minimizing maintenance costs.

# ESA S820 CONTROL PANEL

Nargesa horizontal press brakes have a 7" color touch screen control, **very intuitive and easy to handle, with the latest 4.0 technology and a more comfortable and accurate regulation.**

We only have to introduce the material, the thickness, the bending angle, choose the punch and the die from the library and the control will program the rest of the parameters automatically.

These are some of the most relevant features of this control system.

> Stores up to 10,000 programs.
> Up to 50 different angles on the same piece can be programmed.
> Dimensions may be programmed in inches or millimetres.
> A library of available dies with the possibility of programming new ones.
> Library of materials and thicknesses available with the possibility of programming new options.
> The CNC can be supplied in more than 20 different languages.
> Automatic control of the angle to fold, in degrees.
> 9.8mm/s working speed and 35mm/s reversing speed
> Manual or automatic operation.
> Automatic elastic recovery correction (springback).
> Piece counter.
> 4.0 Technology.
> On-screen alarm diagnostics.
> Preventive maintenance warning.
> Can be remotely connected by the manufacturer without having to travel to the machine site.
> 7" colour touch-screen with 800 x 480 resolution.
> 128 MB silicon disk.
> 2 analogue inputs, 12 bit resolution.
> 16 digital inputs (24 Vdc).
> 16 digital outputs (24 Vcc, 0.7 A max.) Protected against overloads and short circuits.
> 1 RS232 serial port.
> 1 CAN port with 9 D-Sub F connector contacts.
> 24 Vdc power source.
> 1 USB port.
> 1 Ethernet port.

# AUTOMATED GAUGE

| | |
|---|---|
| **Reference** | **140-16-01-50000** |
| **Electrical motor** | Servomotor 0,9Nm, 0,520kW, 5000rpm |
| **Electrical tension** | 480V, 400V ,220V Three-phase · 220V Single-phase |
| **X axis stroke length** | 1210 mm |
| **Z axis stroke length** | 300 mm |
| **Displacement speed** | 1000mm /s |
| **Positioning accuracy** | ±0.02 mm |
| **Repeatibility** | ±0.02 mm |
| **Maximum structural load** | 2.000 Kg |
| **Dimensions** | 1496x1041x426 mm |
| **Weight** | 127 Kg |

### Automatic reverse

For all operations there is a fully adjustable safety positioning gauge withdrawal movement.

### Advanced automation

Programming and control by using an ESA S625 CNC that allows manual intervention to be minimized, increasing productivity and reducing positioning times in the different cycles.

### Intuitive user interface

Programming and configuration of all Positioning gauge functions are ruled by an interface designed to be simple and intuitive for the user, thus being accessible to all operators regardless of their level of experience.

### Connectivity and 4.0 technology

The 4.0 technology incorporated into the software gives the customer the possibility of establishing a remote connection with the Nargesa technical service through the Internet, thus permitting real-time software updates, resolution of any anomalies and instant assistance.

## Maximum safety for the operator

Operator safety is a top priority! The multi-speed movement, together with the action on the pedal, allows absolute control by the operator. All moving components of the stop operating and control mechanism are protected within the structure itself and thus avoiding any risk of entrapment.

## Durability and Reliability

Its main structural frame is formed by various duralumin alloys, to which anodizing is applied to resist any environmental challenge. Positioning supports manufactured with high alloy mold steel, thus offering high hardness and durability. For the most exposed area of the work table, we have slats made of Hardox®400, a special steel with high hardness and wear resistance.

## Movement in two speeds

The automated gauge software manages two working speeds, one at maximum speed while outside the safety area, and a significantly slower one for movements within this zone.

## Universal Compatibility

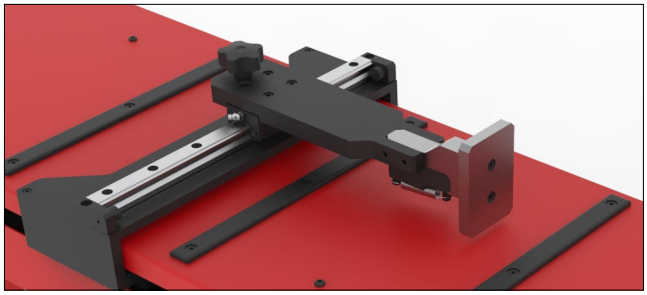
The configuration of the automated gauge makes it compatible with a wide variety of materials, dimensions and work processes in both Metric and Imperial systems.

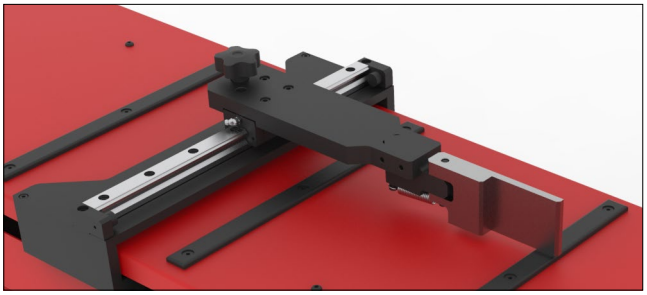
## Precise positioning

Powered by a 1Nm ESA servomotor and moving on high-precision linear guides and ball recirculating skids.

## x2 Two Fingers supplied as standard with the Gauge

The automated stop is equipped as standard with two position supports or “Fingers”:
The Flat Support has a large support surface, to work relatively far from the central axis of the machine.
The Needle Support has a thinner surface ideal for short-wing folding work, that is, it allows it to be positioned between the die and the punch without interfering.

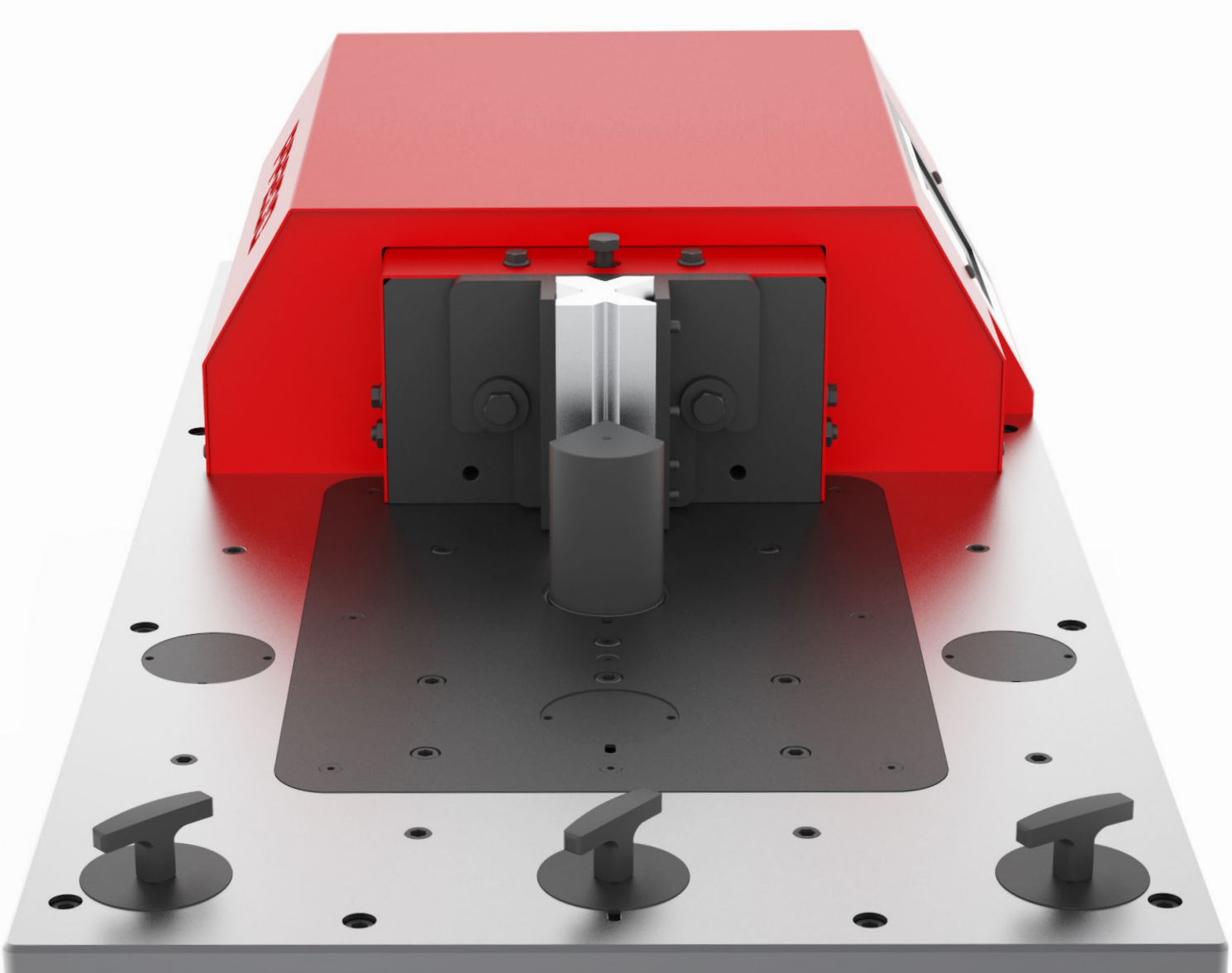




# The advantage of the Horizontal Bending Press PP200CNC is to have a really simple head drive so that all our customers can adapt any die manufactured by themselves

**To add more options when fastening tools, the workbench has a series of clamping holes distributed throughout the area to ease up the fixing.**

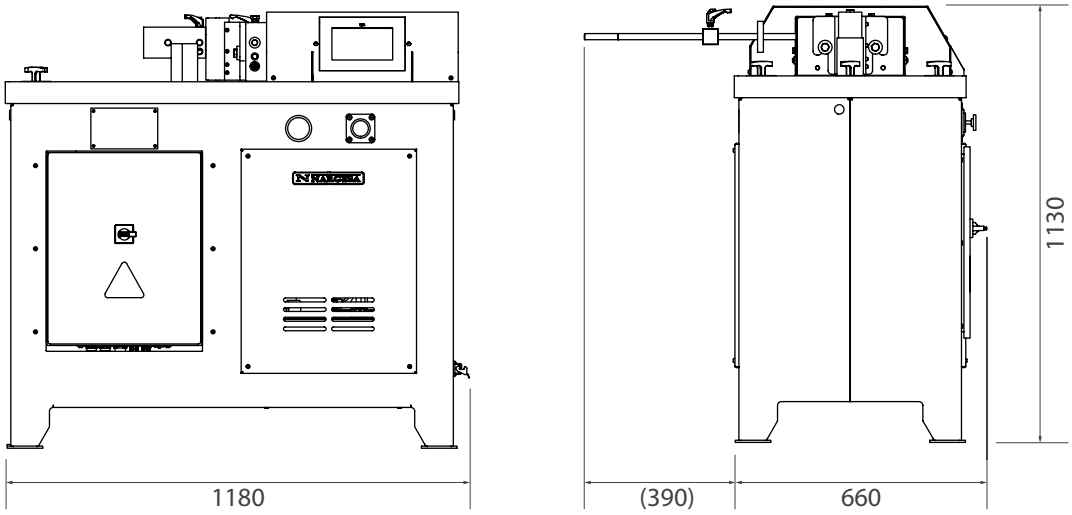
**If you need a special die, Prada Nargesa offers a technical support to all our customers who wish to make their own tools. Moreover, we have an extra service for designing and manufacturing exclusive tooling on request, for each of the machines we manufacture.**



# DETAILED FEATURES

| | |
|---|---|
| **Working strength** | 20 Ton. (200 KN). |
| **Working speed** | 9,8 mm/s. |
| **Return speed** | 35 mm/s. |
| **Maximum displacement** | 250 mm. |
| **Repeatability** | 0,05 mm. |
| **Bench size** | 600x1170 mm. |
| **Working height** | 950 mm. |
| **Engine power** | 2.2 KW / 3 CV a 1400 r.p.m. |
| **Electric Tension** | 230 / 400 V three-phased |
| | *For Single-phased machines, please ask the manufacturer.* |
| **Intensity** | 9/5 A. |
| **Hydraulic pressure** | 50 a 215 Kg/cm2. |
| **Hydraulic pump** | 7,5 litres/minute |
| **Tank Capacity** | 27 litres |
| **Machine dimensions** | 660x1180x1130 mm. |
| **Weight** | 665 Kg. |

# EXTERNAL DIMENSIONS




# CHARACTERISTICS OF THE PACKAGING

- Tariff Item Code: 84622290
- The machine is delivered completely mounted.
- Packaging with wooden pallet NIMF15 and 3-layered cardboard box suitable for sea freight.
- Optional: Complete wooden packaging NIMF15.

## PP200CNC

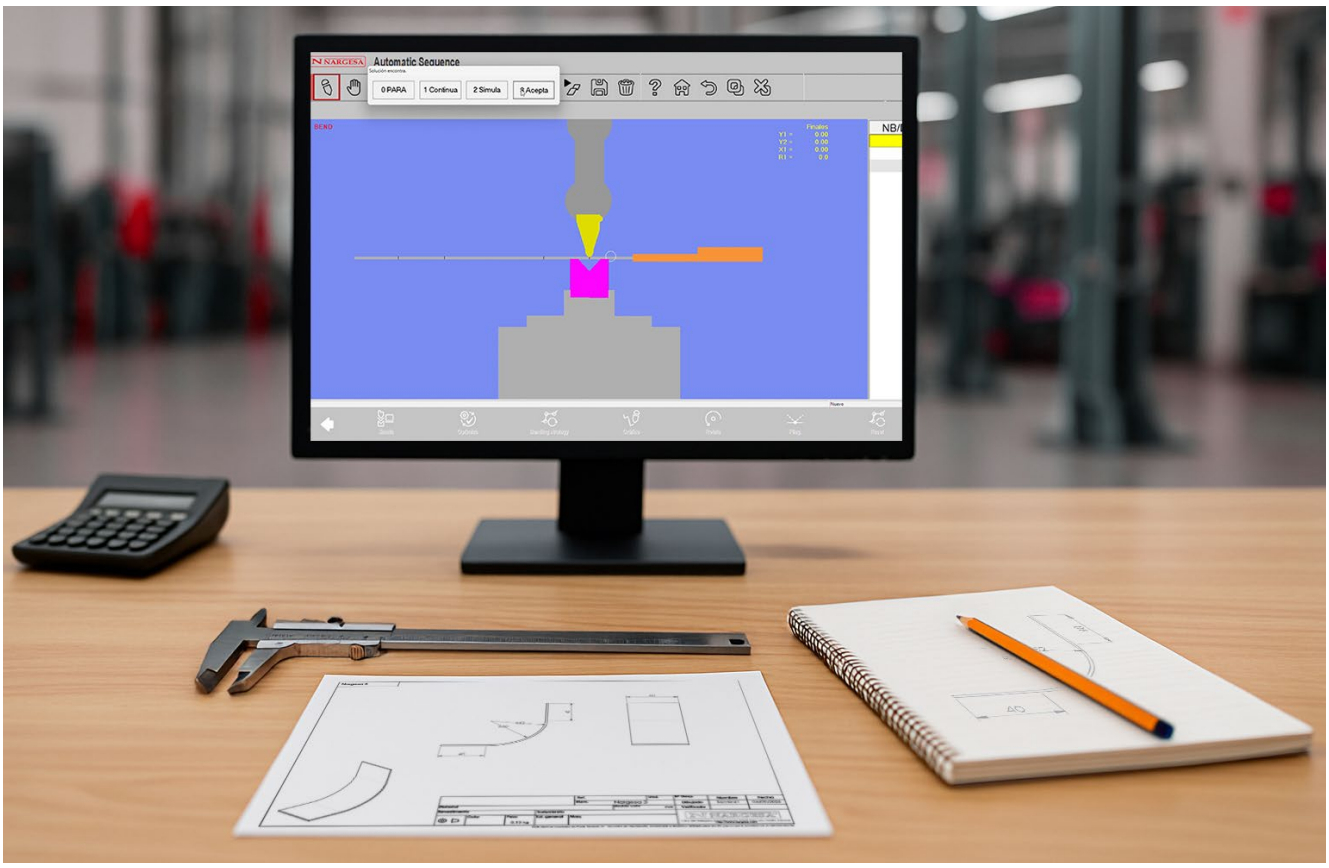
| | |
|---|---|
| Width | 930 mm |
| Length | 1300 mm |
| Height | 1500 mm |
| Volume | 1,81 m3 |
| Nett weight | 665 Kg |
| Gross weight | 712 Kg |

## PP200CNC Gauge

| | |
|---|---|
| Width | 1620 mm |
| Length | 540 mm |
| Height | 460 mm |
| Volume | 0,40 $m^3$ |
| Nett weight | 115 Kg |
| Gross weight | 139 Kg |

NEW

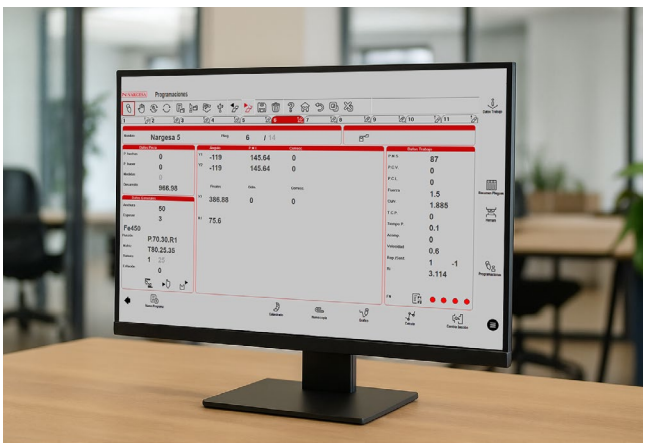
# BENDING SIMULATOR SOFTWARE

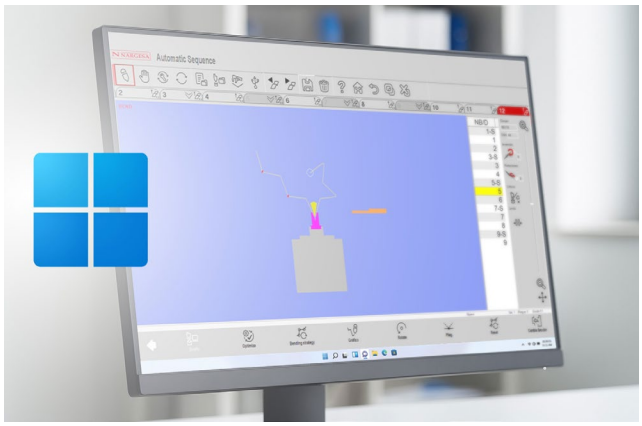



The new **bending simulator software** for the PP200CNC Horizontal Press Brake is the **ultimate tool for manufacturers and operators** looking to **maximize productivity, precision, and safety.**

Designed for both **manufacturers and operators,** this software **improves daily work efficiency** and **trains new technicians** in a fully virtual simulation environment.

**The result: optimized bending programs from the very first part, with no material waste and no need to stop the machine.**



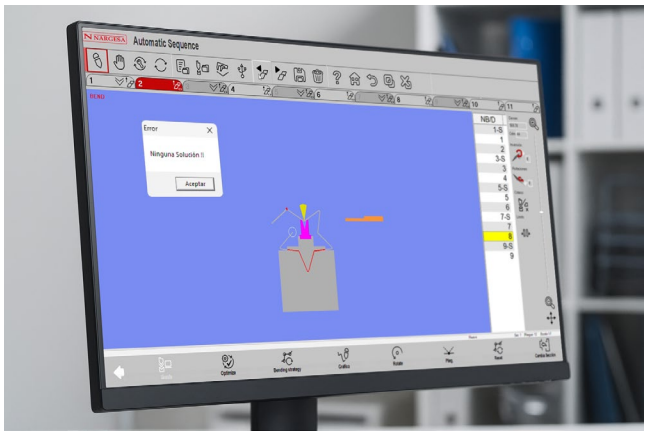


## Environment and license

Developed for **Windows environments**, the software offers a **perpetual** license with no monthly or annual fees. Users can **create programs in numerical or graphical mode** directly from a computer, **without occupying the machine or requiring operator intervention**. This allows them to **work on, test, and optimize bending programs even outside the production environment**, facilitating efficient and secure offline programming.

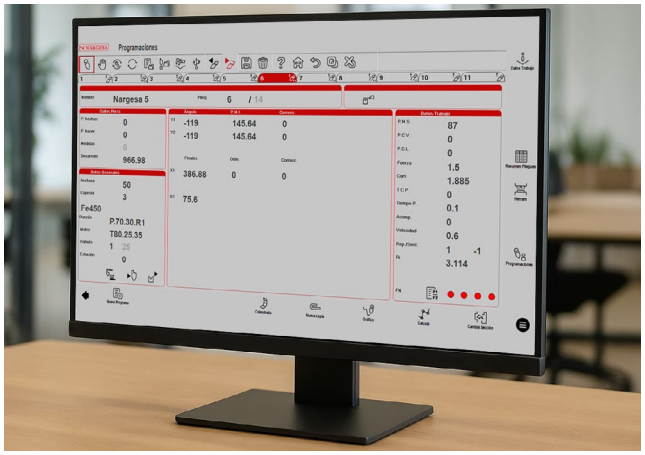
## Ideal for teaching and training

In addition to its industrial use, Nargesa's Bending Simulator Software is an **exceptional tool for the technical training of operators, training centers, and R&D departments.** It allows you to practice folding operations in a virtual environment, without using real machines, evaluate and correct errors without risk or material consumption and **reduce preparation and assembly times in classrooms or laboratories.**



## Collision analysis

The system incorporates an **advanced collision analysis function, capable of detecting possible interference** between the **punch, die, sheet metal, or moving parts of the machine**. The feasibility of bending is automatically determined before the part is produced. **The risks of damage to the tool or machine are eliminate. Operator safety and part integrity are ensured throughout the process.**



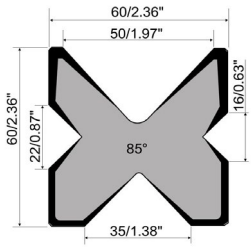
## Data collection

**Calcula automáticamente el desarrollo plano de la chapa** con precisión centesimal, garantizando un **resultado exacto y repetible** desde la primera operación en cada pieza.

**Automatically calculates the flat pattern** of the sheet metal with **centesimal precision,** guaranteeing an **accurate and repeatable result** from the first operation on each piece. Thanks to this calculation and measurement capability, **the simulator guarantees total control of the process, providing accurate data that allows operations to be standardized**, processes to be documented, and the final quality of each product to be ensured.

# STANDARD ACCESSORIES DELIVERED WITH THE MACHINE

## Folding die at 161 mm V 16, 22, 35, 50 mm




> Bending die for up to 161 mm with 4 openings (16, 22, 35, 50 mm). This multi-V die allows bending sheet metal from 1 mm to 8 mm.

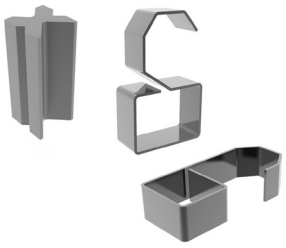
**Reference:** 125-16-01-00006

**V 16:** Sheet metal from 1 to 3 mm · **M.460.R/16**
**V 22:** Sheet metal from 2 to 4 mm · **M.460.R/22**
**V 35:** Sheet metal from 3 to 6 mm · **M.460.R/35**
**V 50:** Sheet metal from 4 to 8 mm · **M.460.R/50**

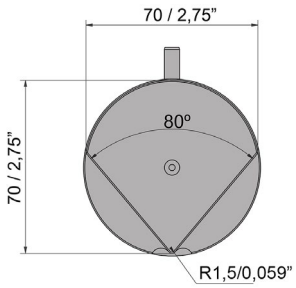
**Maximum bending length:** 161 mm
**Maximum bending thickness:** 8 mm

***Standard tooling supplied with the machine***

*Download folding chart* PDF



## Bending punch at 100 mm and 80º

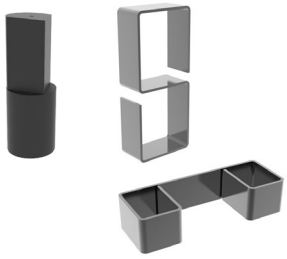



> 80º bending punch. The punch with an outer diameter of 70 mm allows for creating completely closed shapes with a minimum inner wing of 75 mm.

**Reference:** 131-16-01-00041 · P.70.80.R1.5

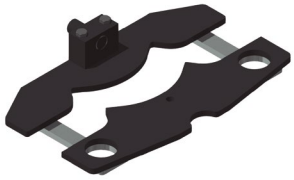
**Maximum bending length:** 100mm

***Standard tooling supplied with the machine***



# OPTIONAL ACCESSORIES

## Baluster forming die 01



**REF:** 140-16-01-00001

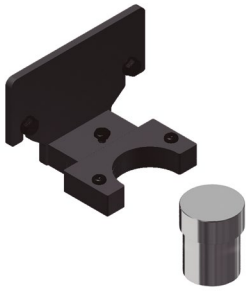
> Die to form cold forging balusters for grills, gates, fences, handrails...

*For other shapes or capacities, request the manufacturer.*

***Optional tooling.***

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

## Ring forming

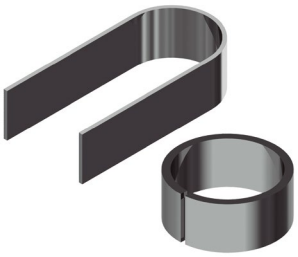


**REF:** 140-16-01-00003

> Die to form rings or English banister railing, used as ornamental piece in forging railings, gates, fences... For bars bonding.

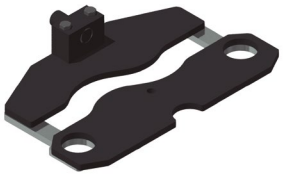
*For other shapes or capacities, request the manufacturer.*

***Optional tooling.***



| Max. width | Thickness | Outer sizes | Weight |
|---|---|---|---|
| 50mm | 6mm | 90mm | 9,3Kg |

## Baluster forming die 04



**REF:** 140-16-01-00004

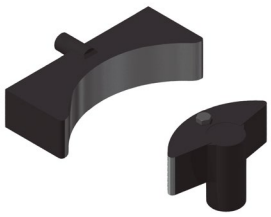
> Die to form cold forging balusters for grills, gates, fences, handrails...

*For other shapes or capacities, request the manufacturer.*

***Optional tooling.***

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

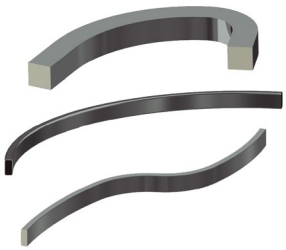
## Bending tool for big radius



**REF:** 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 mould.

***Optional tooling.***



| Max. bar capacity | Max. pipe capacity | Min. diameter | Max. diameter | Weight |
|---|---|---|---|---|
| 40mm or 1 1/2" | 80x80 mm or 3" | 300mm | There is no maximum | 35 Kg |

## Baluster forming die 08

**REF:** 140-16-01-00008

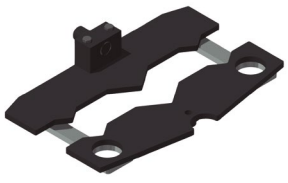
> Die to form cold forging balusters for grills, gates, fences, handrails...

*For other shapes or capacities, request the manufacturer.*

***Optional tooling.***

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

## Baluster forming die 09



**REF:** 140-16-01-00009

> Die to form cold forging balusters for grills, gates, fences, handrails...

*For other shapes or capacities, request the manufacturer.*

***Optional tooling.***

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

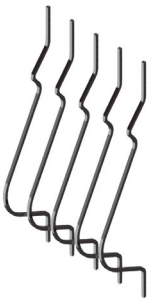
## Baluster forming die 10

**REF:** 140-16-01-00010

> Die to form cold forging balusters shaped parts for grills, so called "belly top railing".

*For other shapes or capacities, request the manufacturer.*

***Optional tooling.***



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

## Baluster forming die 11

**REF:** 140-16-01-00011

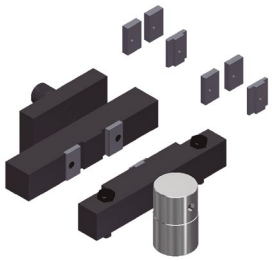
> Die to form cold forging balusters for grills, gates, fences, handrails...

*For other shapes or capacities, request the manufacturer.*

***Optional tooling.***

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

## Twisted bars forming die



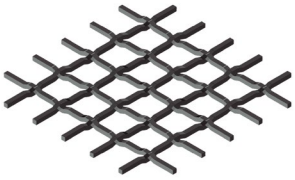
**REF:** 140-16-01-00013

> 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 to 6, 12 and 14mm.

*For different sizes, please ask the manufacturer*

***Optional tooling.***



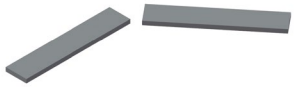
| Max. capacity | Min. capacity | Weight |
|---|---|---|
| Square 14 mm | 2x40 mm metal sheet | 18Kg |

## Flat bar cutting tooling 100x10mm

**REF:** 140-16-01-00014

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

***Optional tooling.***



| Max. cutting length | Max. cutting thickness | Weight |
|---|---|---|
| 100mm | 10mm | 23Kg |

## Tool to shape pipe ends

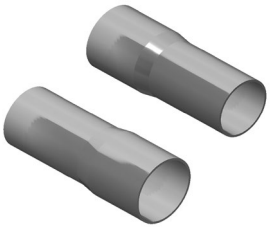
**REF:** 140-16-01-00016

> 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.

**Weight:** 110 Kg approx.

*For special forms consult the manufacturer.*

***Optional tooling.***



## Diameter reduction tools

> Composed by the clamp holder to reduce tube and the reduction clamp.

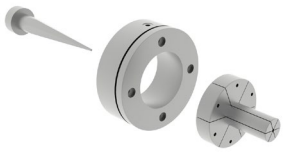
> This accessory is adapted to the Tooling to shape pipe ends, to perform the operation of reducing the ends of the tubes, for its coupling.

***Optional tooling.***

*We can find the different sizes in the following PDF file*

PDF

## Diameter expansion tools

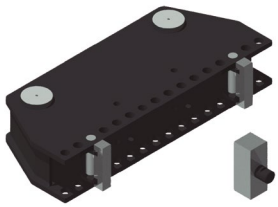


> Composed by the Clamp Holder to Expand, Expansion Mandrel and the Expander Clamp.
> This accessory is adapted to the Tooling to shape pipe ends, to perform the operation of expanding the ends of the tubes, for its coupling

***Optional tooling.***

*We can find the different sizes in the following PDF file*

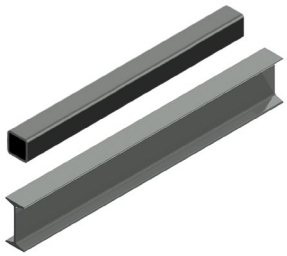
## Die to straighten out profiles



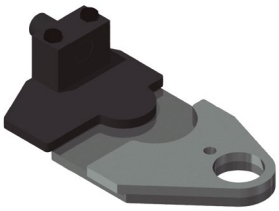
**REF:** 140-16-01-00017
> Tool used to bend straight profiles or parts. It is adjustable to different capacities according to the profiles.

**Maximum capacity:** H 150mm.
**Weight:** 72Kg.

***Optional tooling.***



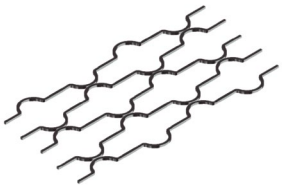
## Baluster forming die 20



**REF:** 140-16-01-00020
> Die to form cold forging balusters for grills, gates, fences, handrails...

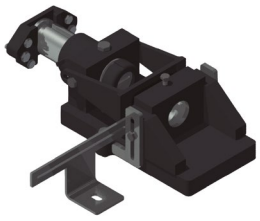
*For other shapes or capacities, request the manufacturer.*

***Optional tooling.***



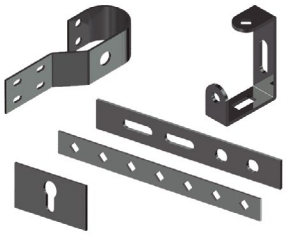
| Square sizes | Circumference size | Weight |
|---|---|---|
| 12mm | 760mm | 32,5Kg |

## Punching die



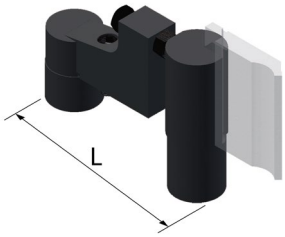
**REF:** 140-16-01-00022
> Punch-holder die, compatible with our Nargesa brand punches.
**Gooseneck:** 54 mm.
**Free distance of tooling:** 95 mm.
**Weight:** 52 Kg.

***Optional tooling.***



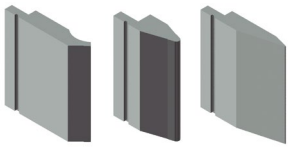
| | Round | Square | Rectangular | Oval |
|---|---|---|---|---|
| **Capacidad máx. Punzonado** | 43mm | 35mm | 20x34mm | 21x40mm |

## Promecam punch holder



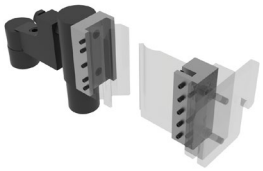

**REF:** 140-16-01-00023
> Punch holder for all kind of punches for Promecam bending or folding press.
> Compatible with any Promecam punch.

***Optional tooling***



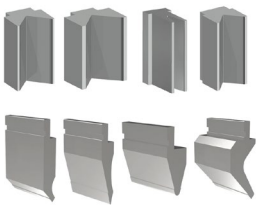
| Max. Folding length | L Length | Weight |
|---|---|---|
| 161mm | 276 mm | 14kg |

## Inverted Promecam-holder PP200CNC



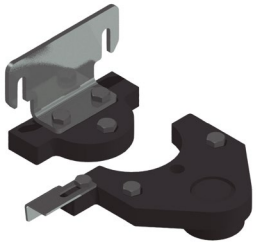
**Reference: 140-16-01-00039**
Punch holder for all kind of punches for Promecam bending or folding press with inverted position.

*Compatible with any Promecam punch.*



| Max. Folding length | Weight |
|---|---|
| 161mm | 19,8kg |

## Clamp forming die



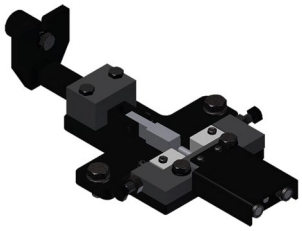
**REF:** 140-16-01-00024

> 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:** 100x4mm.

***Optional tooling.***

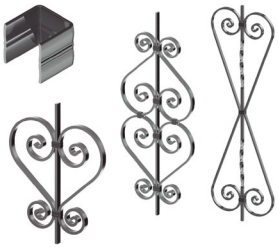
## Bar clamps forming die



**REF:** 140-16-01-00028

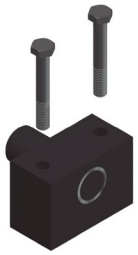
> Clamp forming die, used to manufacture the clamps used to join different forging bars with no need to get them welded.

***Optional tooling.***



| Max. capacity | Weight |
|---|---|
| 25x5mm | 9Kg |

## Forming die adaptor

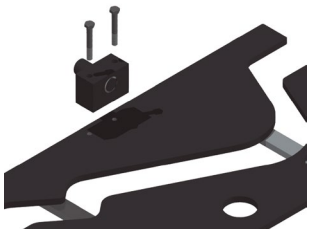


**REF:** 140-16-01-00029

> 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.

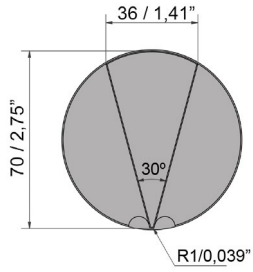
***Optional tooling suitable for all forming dies.***



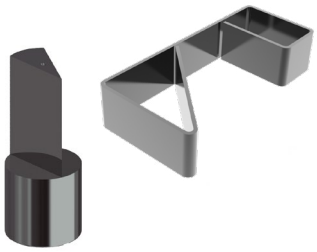
## Special punches

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

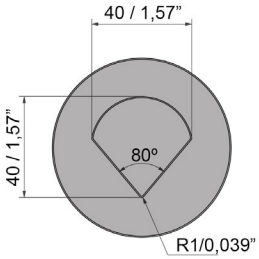
## Folding Punch P.70.30.R1




**Reference: 140-16-01-00025**
**Max. Folding length:** 100mm
**Punch degrees:** 30º
**Punch diameter:** 70mm
**Weight:** 3 Kg.

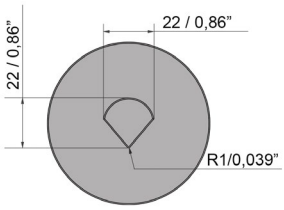


## Folding Punch P.40.80.R1



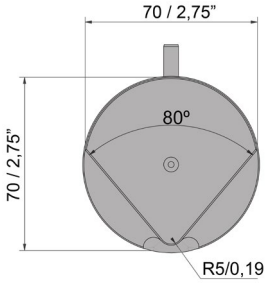

**Reference: 140-16-01-00026**
**Max. Folding length:** 60mm
**Punch degrees:** 80º
**Punch diameter:** 40mm
**Weight:** 3 Kg.

## Folding Punch P.22.80.R1

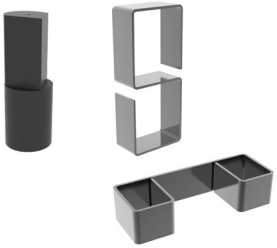



**Reference: 140-16-01-00027**
**Max. Folding length:** 60mm
**Punch degrees:** 80º
**Punch diameter:** 22mm
**Weight:** 3 Kg.

## Folding Punch P.70.80.R5



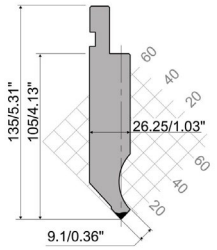

**Reference: 140-16-01-00080**
**Max. Folding length:** 100 mm
**Punch degrees:** 80º
**Punch diameter:** 70 mm
**Weight:** 3 Kg.



## Punzones Promecam

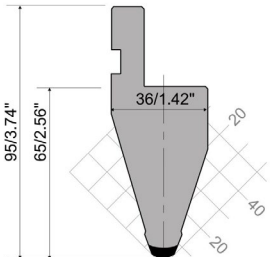
Promecam punches of different shapes to bend and manufacture complex part. There are a lot more shapes, please consult the manufacturer.

## Punch Promecam PS.135.85.R08

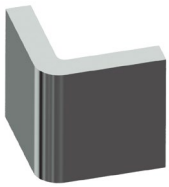



**Reference: 140-16-01-00030**
**Folding length:** 161 mm
**Weight:** 3,2 Kg.

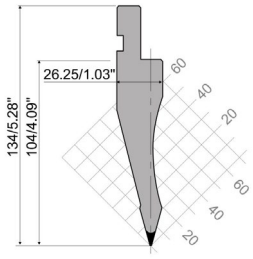
## Punch Promecam P.95.35.R5




**Referencia: 140-16-01-00031**
**Folding length:** 161 mm
**Weight:** 2,3 Kg.

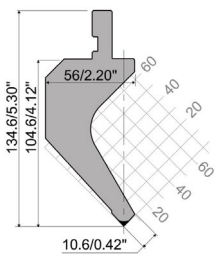


## Punch Promecam PS.134.30.R08



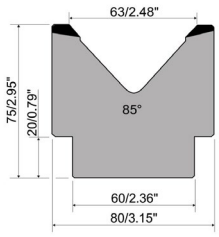

**Reference: 140-16-01-00032**
**Folding length:** 161 mm
**Weight:** 2,7 Kg.

## Punch Promecam PK.135.85.R08

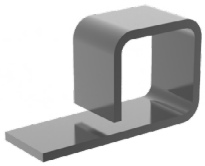



**Reference: 140-16-01-00038**
**Folding length:** 161 mm
**Weight:** 4,4 Kg.

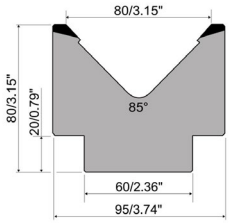
## Folding die M75.85.63



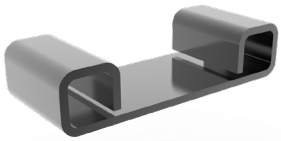

**Reference: 140-16-01-00033**
**Folding length:** 161 mm Max. 85º
V63: From 5 to 10 mm sheet
**Weight:** 5 Kg.



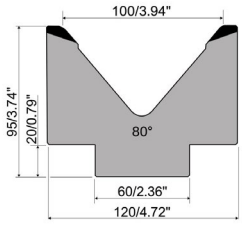
## Folding die M80.85.80



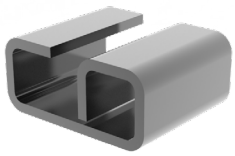

**Reference: 140-16-01-00034**
**Folding length:** 161 mm Max. 85º
V80: From 6 to 12 mm sheet
**Weight:** 6 Kg.



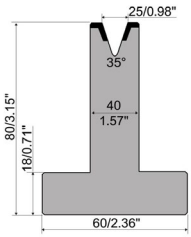
## Folding die M95.80.100



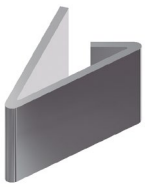

**Reference: 140-16-01-00035**
**Folding length:** 161 mm Max. 80º
V100: From 8 to 15 mm sheet
**Weight:** 9 Kg.



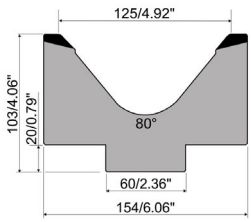
## Folding die T80.25.35




**Reference: 140-16-01-00036**
**Folding length:** 161 mm Max. 35º
V25: From 1,5 to 5 mm sheet
**Weight:** 4 Kg.

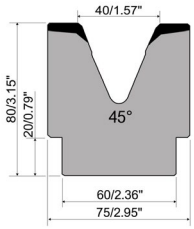


## Folding die MK103.80.125

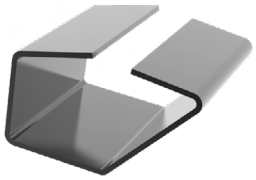



**Reference: 140-16-01-00040**
**Folding length:** 161 mm Max. 80º
V125: From 12 to 20 mm sheet
**Weight: 12,4** Kg.

## Folding die M80.45.40

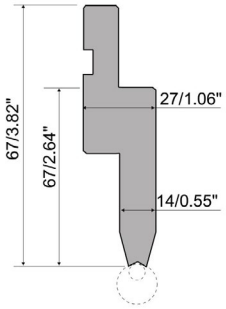



**Reference: 140-16-01-00041**
**Folding length:** 161 mm Max. 45º
V40: From 3 to 8 mm sheet
**Weight:** 6,2 Kg.

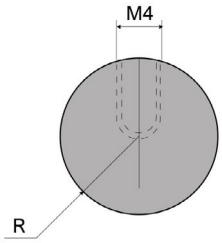


## Small radii holder PU.67.14-S

**Reference: 140-16-01-00042**
European style R1 bending tool holder. (For radii from 3 to 7,5 mm)
**Folding length:** 161 mm
**Weight:** 2 Kg.

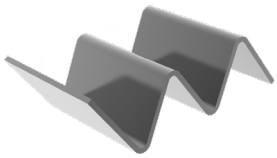



## Radius elements for small radii holders PU.67.14-S




Radius elements to fold. Made of C45, a high quality, medium grade steel, with constant mechanical properties and good external chrome resistance.

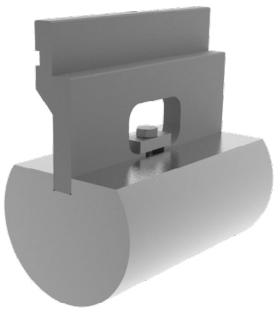
**Maximum capacity:** 400kN/m.
**Tonnage:** 400 kN/m max.
*For its use it requires the PU.67.14-S Small radius holder.*



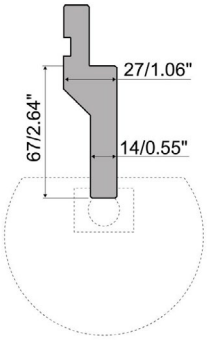
Please refer to the following radius chart:

| Small Radius | | | | |
|---|---|---|---|---|
| **Type** | **Code** | **Reference** | **Radius** | **Weight** |
| C3 | PU.67.14-S-C3 | 140-16-01-00044 | 3 mm | 0,04 Kg. |
| C3.5 | PU.67.14-S-C3.5 | 140-16-01-00045 | 3,5 mm | 0,04 Kg. |
| C4 | PU.67.14-S-C4 | 140-16-01-00046 | 4 mm | 0,07 Kg. |
| C4.5 | PU.67.14-S-C4.5 | 140-16-01-00047 | 4,5 mm | 0,10 Kg. |
| C5 | PU.67.14-S-C5 | 140-16-01-00048 | 5 mm | 0,12 Kg. |
| C5.5 | PU.67.14-S-C5.5 | 140-16-01-00049 | 5,5 mm | 0,14 Kg. |
| C6 | PU.67.14-S-C6 | 140-16-01-00050 | 6 mm | 0,16 Kg. |
| C6.5 | PU.67.14-S-C6.5 | 140-16-01-00051 | 6,5 mm | 0,20 Kg. |
| C7 | PU.67.14-S-C7 | 140-16-01-00052 | 7 mm | 0,16 Kg. |
| C7.5 | PU.67.14-S-C7.5 | 140-16-01-00053 | 7,5 mm | 0,20 Kg. |

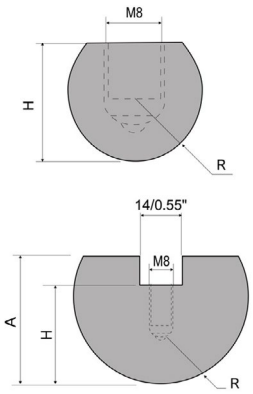
## Big radii holder PU.67.14



**Reference: 140-16-01-00043**
European style R1 bending tool holder. (For radii from 8 to 50 mm)
**Folding length:** 161 mm
**Weight:** 1,80 Kg.



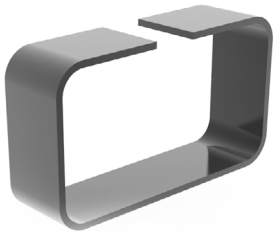

## Radius elements for large radii holders PU.67.14




Radius elements to fold. Made of C45, a high quality, medium grade steel, with constant mechanical properties and good external chrome resistance.

**Tonnage:** 800 kN/m max.
*For its use it requires the PU67.14 large radius holder.*

Please refer to the following radius chart:



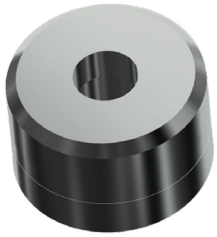
| Big Radius | | | | | |
|---|---|---|---|---|---|
| **Code** | **Reference** | **R (mm)** | H (mm) | A (mm) | **Weight** |
| PU.67.14.R8 | 140-16-01-00054 | 8 | 13 | - | 0,04 Kg. |
| PU.67.14.R9 | 140-16-01-00055 | 9 | 16 | - | 0,04 Kg. |
| PU.67.14.R10 | 140-16-01-00056 | 10 | 16 | - | 0,04 Kg. |
| PU.67.14.R12,5 | 140-16-01-00057 | 12,5 | 17 | 22 | 0,50 Kg. |
| PU.67.14.R15 | 140-16-01-00058 | 15 | 20 | 27 | 0,75 Kg. |
| PU.67.14.R17,5 | 140-16-01-00059 | 17,5 | 22 | 32 | 1,00 Kg. |
| PU.67.14.R20 | 140-16-01-00060 | 20 | 24 | 34 | 1,40 Kg. |
| PU.67.14.R22,5 | 140-16-01-00061 | 22,5 | 25 | 35 | 1,50 Kg. |
| PU.67.14.R25 | 140-16-01-00062 | 25 | 29 | 39 | 2,00 Kg. |
| PU.67.14.R27,5 | 140-16-01-00063 | 27,5 | 34 | 44 | 2,50 Kg. |
| PU.67.14.R30 | 140-16-01-00064 | 30 | 34 | 44 | 2,70 Kg. |
| PU.67.14.R32,5 | 140-16-01-00065 | 32,5 | 37 | 47 | 3,20 Kg. |
| PU.67.14.R35 | 140-16-01-00066 | 35 | 45 | 55 | 4,10 Kg. |
| PU.67.14.R37,5 | 140-16-01-00067 | 37,5 | 42 | 52 | 4,10 Kg. |
| PU.67.14.R40 | 140-16-01-00068 | 40 | 45 | 55 | 4,60 Kg. |
| PU.67.14.R45 | 140-16-01-00069 | 45 | 60 | 70 | 6,80 Kg. |
| PU.67.14.R50 | 140-16-01-00070 | 50 | 70 | 80 | 8,70 Kg. |

## Round, square, oval and rectangular punches and dies

> At Nargesa we own a wide catalogue for punches and dies of all kinds. If the size the customer needs is not in the list, we manufacture it.
> In the PDF file you will be able to see all kinds and sizes we have.

***Optional tooling.***

*Technical features* PDF



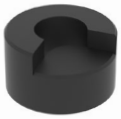
## Pipe notching tool

> Dies for notching pipes from Ø16 to a Ø50mm. It crops the pipe end so it could be joined perpendicularly to another pipe.

***Optional tooling.***

*Technical features* PDF

## Rounding corner tool

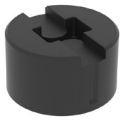


> Die to get metal sheet corners rounded at different radius.

***Optional tooling.***

*Technical features* PDF

## Metal tabs forming tool



> Tool to fabricate all kinds of tabs, with or without perforation, straight or rounded... They are very used as clamps, handles etc. Starting from a metal strip, there will be obtained one piece of the desired length at every stroke.

***Optional tooling.***

*Technical features* PDF

# OUR RANGE OF MACHINERY

+info IRON WORKERS

+info NON-MANDREL PIPE BENDER

+info HORIZONTAL PRESS BRAKES

+info SECTION BENDING MACHINES

+info CNC SECTION BENDING MACHINES

+info LASER WELDING EQUIPMENT

+info TWISTING/SCROLL BENDING MACHINES

+info HYDRAULIC PRESS BRAKES

+info HYDRAULIC SHEAR MACHINES

+info GAS FORGES

+info IRON EMBOSSING MACHINES

+info END WROUGHT IRON MACHINES

+info BROACHING MACHINES

+info POWER HAMMERS

+info BLACKSMITH FORGING PRESS

# WARRANTY

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

Partner companies

# SHIPMENT EVERYWHERE

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

# TECHNICAL ASSISTANCE

All our customers have access to technical support quickly and efficiently.
90% of incidences are solved out on the phone, mail, Skype or videoconferencing in less than 24hours. In case of needing presencial technical assistance, we may as well send a technician to the customer's facilities.

Follow us on

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nargesa@nargesa.com

CE

This information might undergo changes