



SHEET METAL BENDING SIMULATION SOFTWARE

for Horizontal Press Brakes

NEW



50 years
manufacturing industrial machinery



AENOR

R&D&I
MANAGEMENT

UNE 166002

VÍDEO TUTORIAL

Introductory video on how to use the software



REQUEST QUOTATION

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

Working days

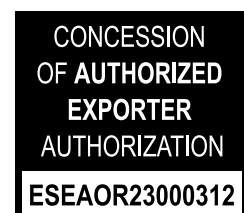
SOME OF OUR CUSTOMERS

Our customer's endorsement is our best business card



CERTIFICATES AND ACCREDITATIONS

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



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.

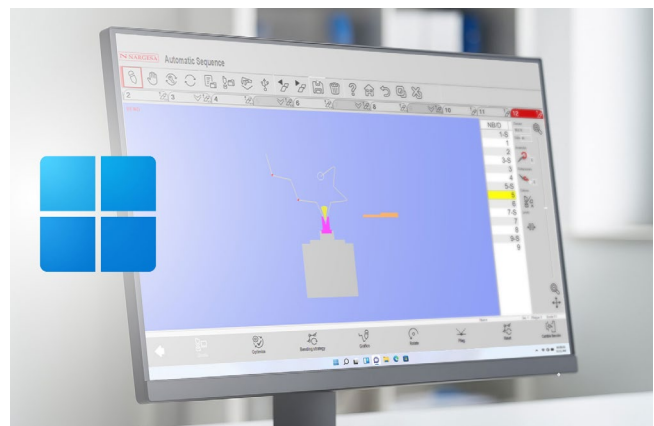
The result: optimized bending programs from the very first part, with no material waste and no need to stop the machine.

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
- Reduce preparation and assembly times in classrooms or laboratories.

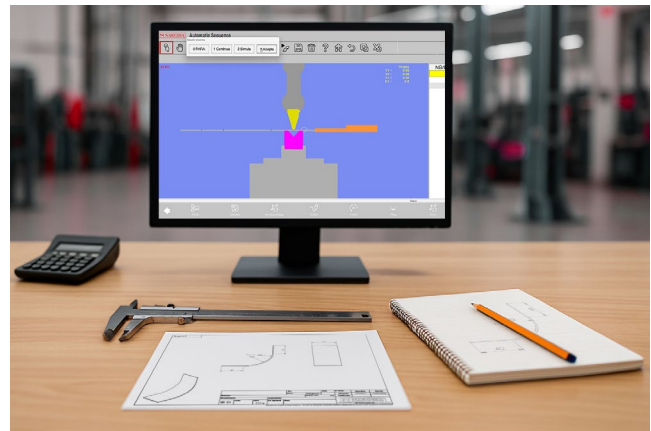
In this way, **students and future operators can gain real experience safely, economically, and educationally** before moving on to practice with a physical machine.

Operation and Programming

From a **technical drawing**, the simulator calculates the **most optimal sequence of operations**, considering factors such as operator safety and efficiency.

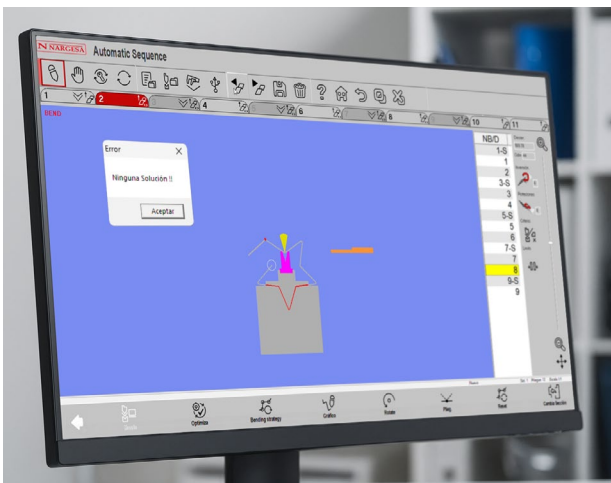
The **software will always give us the most optimal solution as the first option**. It also offers **other alternative solutions**, which may be of interest to the user depending on their specific needs.

Once the process has been validated, the **software generates the complete program, ready to be exported via USB and imported directly into the horizontal press brake**, ready for immediate production, with optimized cycles and **guaranteed centesimal precision**.



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**. Thanks to this function:



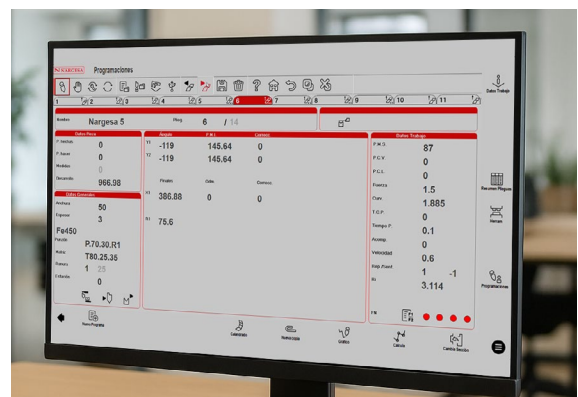
- The feasibility of bending is automatically determined before the part is produced.
- The risks of damage to the tool or machine are eliminated.
- Operator safety and part integrity are ensured throughout the process.
- The analysis is performed in real time during the simulation, providing a clear and preventive visualization of any possible geometric conflicts.

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.



TECHNICAL CHARACTERISTICS

> **It allows you to simulate the bending process virtually.** It saves machine downtime and material for testing, ensuring accurate results from the very first piece.

> **It offers a highly intuitive graphical interface** that allows operators and programmers to easily interact with the software, streamlining the configuration and execution of bending simulations.

> **Automatic calculations with centesimal precision:** simply enter the data from a technical drawing and the bending simulator software will calculate the flat pattern of the sheet metal, the final inner radius, the minimum tonnage required, and the size of the stops, among other things.

> **Multi-Machine Compatibility:** It can work with different brands and models of press brakes, allowing users to simulate the bending process on a wide variety of equipment.

> **Ideal for teaching:** allows folding processes to be practiced and evaluated in a virtual environment, without occupying or stopping real machines, reducing risks, material consumption, and preparation time in the classroom/laboratory. Ideal for training operators before using a machine.

> **Collision analysis:** detects and prevents potential collisions between the tool, the machine, and the part during the bending process, determining the feasibility of the process and ensuring safety.

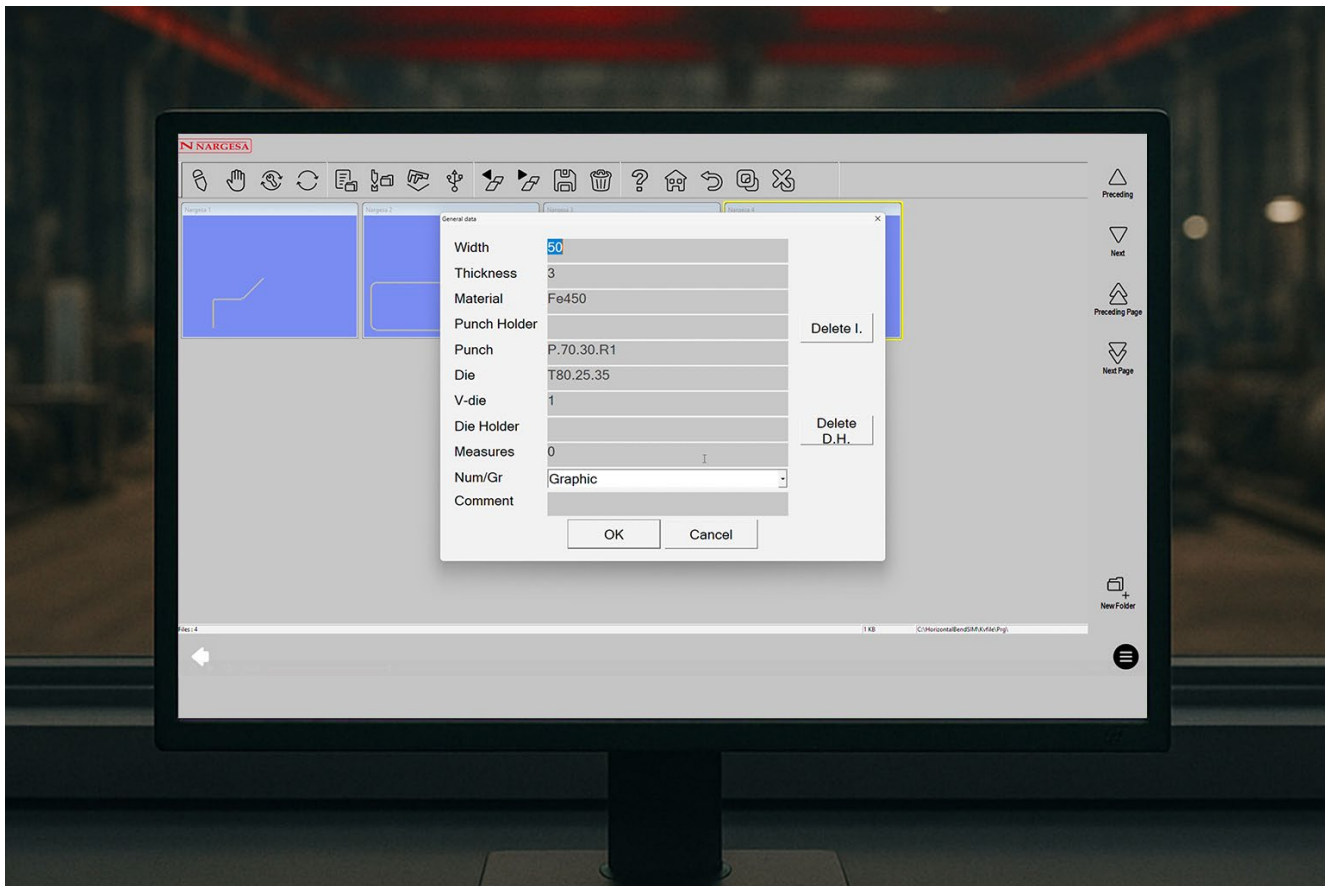
> **Sequence optimizer:** Automatically calculates bending parameters, such as part direction and bending angle, based on material and final part characteristics, taking into account criteria such as productivity and operator safety.

> **Very simple and intuitive offline programming;** in a very short time, we will obtain the program to generate any part.

> **Direct export via USB:** Save the program to a USB flash drive, import it into the PP200CNC, and start producing immediately!

KEY ADVANTAGES

- ✓ Save time and material from the very first rehearsal.
- ✓ Reduces the risk of human error.
- ✓ Improve productivity without stopping the machine.
- ✓ Facilitates the transfer of technical knowledge.
- ✓ Guarantees precision, safety, and repeatability.
- ✓ Compatible with the philosophy of Industry 4.0 and process digitization.



The Nargesa Bending Simulator Software is not just a programming tool: it is a comprehensive simulation, optimization, and learning platform.

With it, bending professionals can anticipate results, prevent errors, and build more competent teams without interrupting production or compromising safety.

RELATED PRODUCTS

PP200CNC



- > **Bending without risk of damaging punches and dies** with thick materials, unlike conventional bending machines.
- > **Bending of flat bars and sheets into completely closed shapes.** The design of the horizontal press brake allows for bending that would be impossible to achieve with a conventional bending machine.
- > **Quick change of tools**, punches, dies, etc.: In most cases, the change takes less than 30 seconds.
- > **Double pedal operation** with sustained activation for safety.
- > **Low noise level**, improving the operator's working conditions.
- > The machine is shipped fully assembled and **ready to use**.
- > **Palletized base for easy transport** to the workplace or storage.
- > **Side rack for tool storage.** Side stop for positioning on the right or left.

Automated Gauge for the PP200CNC



- > **Precise positioning:** Driven by a 1Nm ESA servomotor and moving on high-precision linear guides and ball recirculation slides.
- > **ESA servomotor:** Maximum specific positioning capacity and extremely precise response to signals from the ESA S625 CNC control.
- > **Automatic retraction:** For all operations, there is a fully adjustable safety retraction movement of the positioning stop.
- > **Automatic positioning of the "X" axis:** Offers impressive accuracy of $\pm 0.02\text{mm}$.
- > **Manual adjustment of the cross slide on the "Z" axis:** Covers all the operating possibilities offered by the PP200CNC press brake, including bending, punching, and curving.
- > **Connectivity and 4.0 technology:** The 4.0 technology incorporated into the software gives the customer the possibility of establishing a remote connection with Nargesá's technical service via the internet, thus facilitating real-time software updates and instant assistance.

OUR RANGE OF MACHINERY



IRON WORKERS



NON-MANDREL PIPE
BENDER



HORIZONTAL PRESS
BRAKES



SECTION BENDING
MACHINES



CNC SECTION BENDING
MACHINES



LASER WELDING
EQUIPMENT



TWISTING/SCROLL
BENDING MACHINES



HYDRAULIC PRESS
BRAKES



HYDRAULIC SHEAR
MACHINES



GAS FORGES



IRON EMBOSSING
MACHINES



END WROUGHT IRON
MACHINES



BROACHING MACHINES



POWER HAMMERS



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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