

Products

**SIMASV**<sup>®</sup>

HORIZONTAL PRESS BRAKE

MADE IN ITALY

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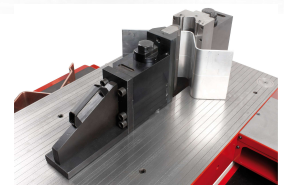
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Ready to use



The background of the entire page is a dark, industrial scene. In the upper right, there is a bright blue light source, possibly a laser or a welding process, with numerous bright orange and yellow sparks flying outwards. In the lower right, a large, metallic, cylindrical component of a machine is visible, with some sparks also emanating from it. The overall atmosphere is one of intense industrial activity.

## ABOUT US

S.I.M.A.S.V. was the inventor in 1957 of horizontal hydraulic bending presses, which distinguishing features are **flexibility** and **versatility**. Due to their ease of use and maintenance and thanks to the countless tools with which they can be equipped, SIMASV bending press are suitable for use in any type of mechanical processing company.

## MECHANICAL DESIGN

Each Simasv machine is a unique and **customized** product, specifically designed to fulfill every single Customer's needs and resulted from the multiple possible combinations of models, sizes and equipment. Our commitment is constantly oriented at Customer satisfaction, because we believe in a long-lasting relationship with our dealers and our direct user Clients.





## PRODUCTION

**Made in Italy** products are a guarantee: high quality and security standards mark Simasv machinery as a product of excellence, thanks to the long time experience gained through decades in manufacturing machines capable of becoming really favorable solutions for the market requirements.

We also offer a consulting service through our internal technical department, which is always available to study and find out the best possible solution: our goal is actually our Customer's complete satisfaction.

# INDUSTRY SOLUTIONS

## CUSTOMER APPLICATIONS

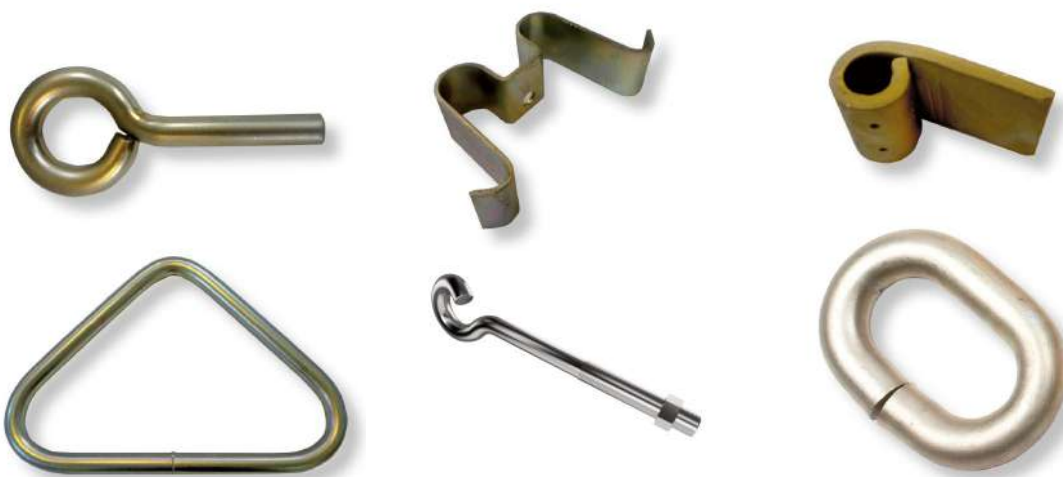
Various industries and sectors that require a high production quality components put their trust in SIMASV horizontal press brake machines. See an overview of application examples here.

### Agriculture



### Automotive

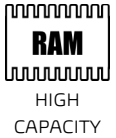






# T SERIES

## HORIZONTAL PRESS BRAKE



Horizontal hydraulic press brakes, which **SIMASV invented in 1957**, are distinguished by their flexibility and versatility. T-series presses are characterized by a sturdy structure and are available in different powers: **22, 40, 70, 100, 120, 150 tons**.

The cylinder placed under the work table allows for a 360-degree bending capacity and allows for more working space so that the operator machine control the machining process from a frontal, safer and more ergonomic position.

SIMASV presses can be equipped with a simple **NC control**, which allows programming and management of the bending axis strokes via a 7" touchscreen panel, or via a new and modern **CNC control**, which allows management of the bending axis and optional second axis automatic backgauge.

Programs can be edited either by classic alphanumeric entry or by **editing 3D parts** with a simple built-in editor. It also allows DXF import of parts including angle and radius information and 3D simulation including automatic or manual search for the best bending sequence.



T-40 CNC



Our CNC offers full control of the **new backgauge**, which is available in 1, 2 or 3 meter lengths for fast and accurate positioning of the workpiece using a brushless motor.

The versatility of SIMASV presses makes these machines indispensable tools for increasing the profitability and reliability of **processes** in:

- ✓ Bending
- ✓ Straightening and bending of beams
- ✓ Straightening of steel profiles (L profiles, T profiles, I profiles, Z profiles, U profiles, rail profiles, special profiles)
- ✓ Straightening of sheet metal
- ✓ Bending and straightening of large pipes



T-120 NC

# T SERIES

## HORIZONTAL PRESS BRAKE



Technical features	T 22	T 40	T 70
Max. pressure (Ton - kN)	22-220	40 - 400	70-700
Working table dimensions (mm)	630 x 1100	620 x 1100	820 x 1720
Distance of working table from ground (mm)	925	950	1000
Max. carriage stroke (mm)	200	250	330
Max. working speed (mm/sec)	8	9.1	9.1
Min. working speed (mm/sec)	4.6	4.7	4.7
Return speed (mm/sec)	70	45	45
Fixing holes on working table (mm)	2 x Ø 50	2 x Ø 50	2 x Ø 80
Fix or movable pins (mm)	2 x Ø 55	2 x Ø 55	2 x Ø 80
Flat bending capacity (mm)	150x10	200 x 20	200 x 30
Extra high bending (mm)	400	400	400
Edge bending capacity (mm)	60x10	100 x 15 / 40 x 40 Ø 40	150 x 15
Pipe bending capacity (Ø)	1 ½"	2"	2 ½"
Straightening capacity - max. Height (mm)	150	150	200
Cutting capacity (mm)	100 x 10	120 x 15	160 x 15
Hydraulic unit oil quantity (Lt)	45	45	140
Motor (Kw)	1,5	3	4
Voltage (different voltage on request)	400 V / 3 / 50 Hz.	400 V / 3 / 50 Hz.	400 V / 3 / 50 Hz.
Overall dimensions ( L x W x H) (mm)	1200 x 900 x 920	1250 x 900 x 1000	1750 x 1380 x 1010
Approx. Weight (Kg)	630	750	1700

*All data may be subject to change without notice.*



Technical features	T 100	T 120	T 150
Max. pressure (Ton - kN)	100 - 1000	120 - 1200	150 - 1500
Working table dimensions (mm)	880 x 1900	880 x 1900	1175 x 2200
Distance of working table from ground (mm)	1050	1050	1135
Max. carriage stroke (mm)	330	330	450
Max. working speed (mm/sec)	8	7.5	7
Min. working speed (mm/sec)	4	4.1	4
Return speed (mm/sec)	35	38	33
Fixing holes on working table (mm)	2 x Ø 80	2 x Ø 100	2 x Ø 120
Fix or movable pins (mm)	2 x Ø 100	Ø 120	Ø 150
Flat bending capacity (mm)	200 x 35	200 x 40	200 x 45
Extra high bending (mm)	450	500	500
Edge bending capacity (mm)	150 x 20	150 x 20	150 x 30
Pipe bending capacity (Ø)	3"	4"	6"
Straightening capacity - max. Height (mm)	250	300	350
Cutting capacity (mm)	200 x 15	200 x 20	200 x 20
Hydraulic unit oil quantity (Lt)	160	160	150
Motor (Kw)	5,5	11	7,5
Voltage (different voltage on request)	400 V / 3 / 50 Hz.	400 V / 3 / 50 Hz.	400 V / 3 / 50 Hz.
Overall dimensions ( L x W x H) (mm)	2000 x 1550 x 1050	2000 x 1550 x 1250	2000 x 1550 x 1250
Approx. Weight (Kg)	2200	2300	2800

*All data may be subject to change without notice.*



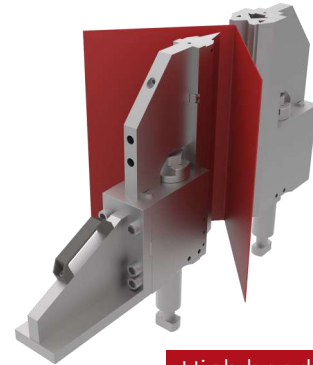
# TOOLS

## STANDARD TOOLING

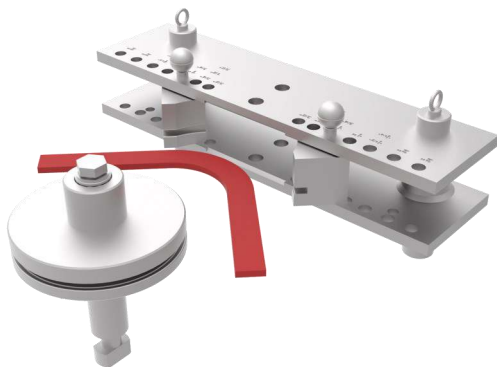
One machine, endless possibilities: SIMASV presses can be equipped with a wide variety of different tooling. Standard and customized tools are available according to the needs of the individual customer. Thanks to the wide selection, SIMASV presses are extremely versatile and suitable for a variety of uses. On these pages you will find some of the standard equipment SIMASV offers its customers.



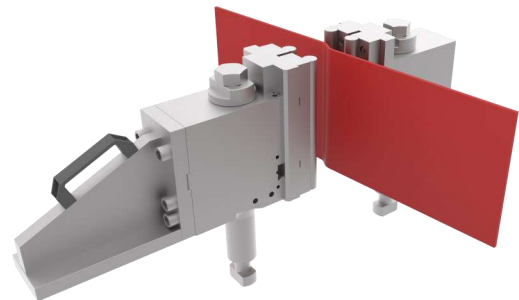
Flat bar bender



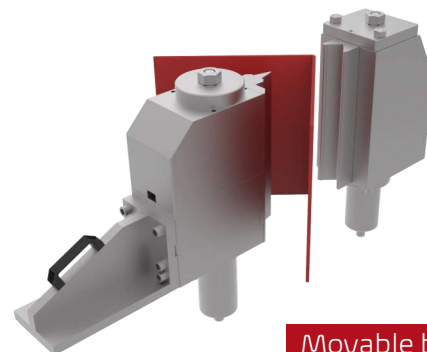
High bender



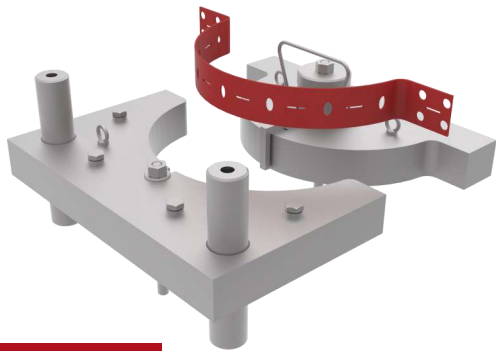
Flat bar edge bender



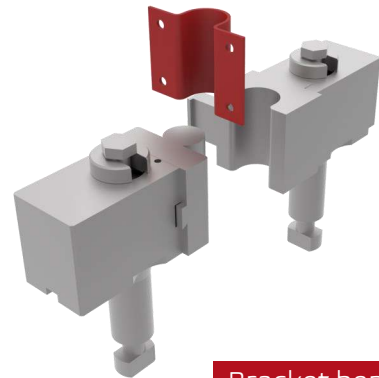
Double bender



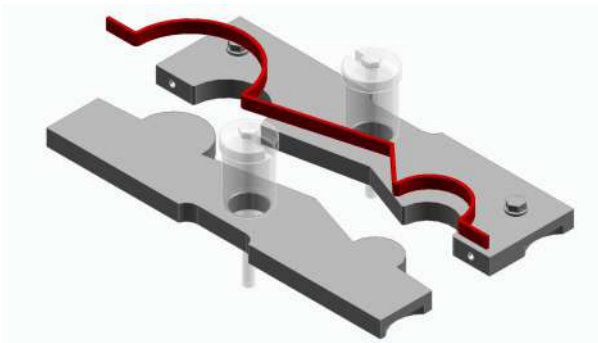
Movable bending punch



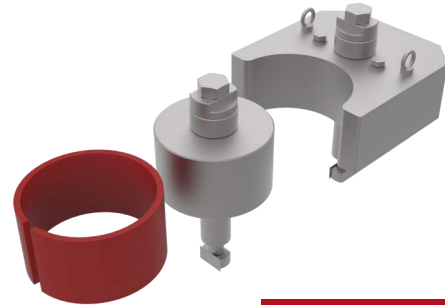
Bracket bender



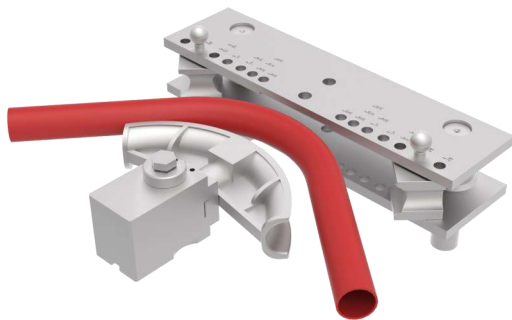
Bracket bender



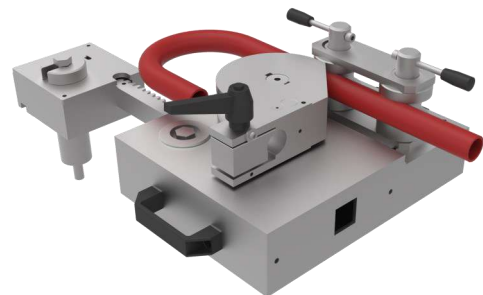
Multiple shapes



Ring bender



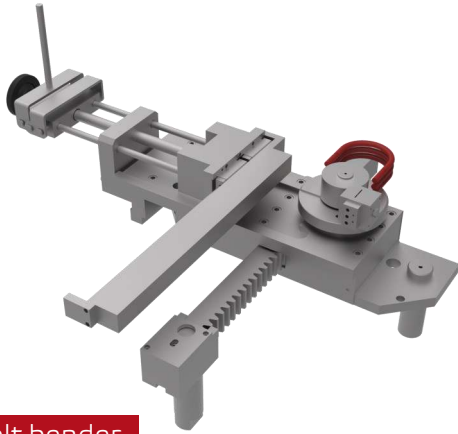
Tube bender



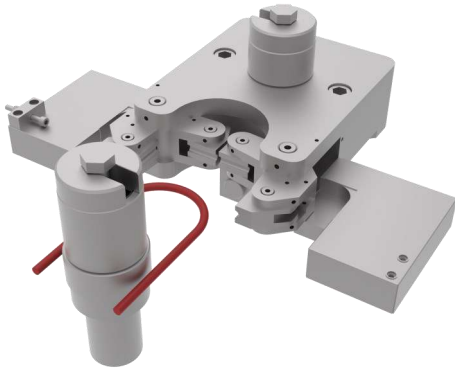
Rotary tube bender

# TOOLS

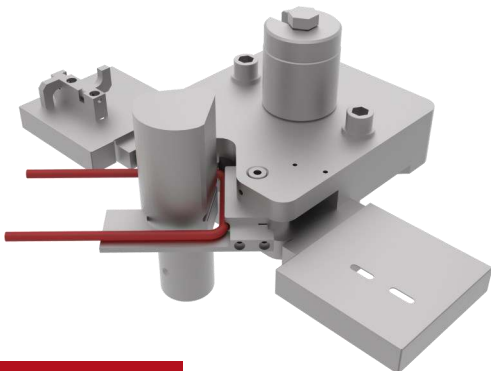
## STANDARD TOOLING



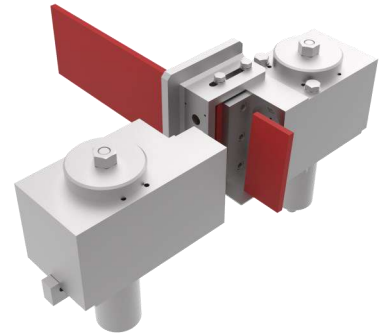
Rotary U-bolt bender



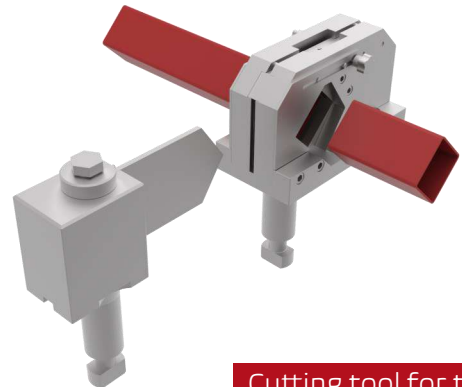
4-JAW U-bolt bender



2-JAW bender



Cutting tool for flat bars

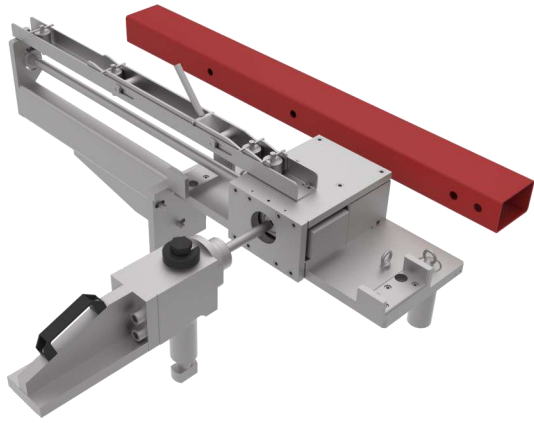


Cutting tool for tubes

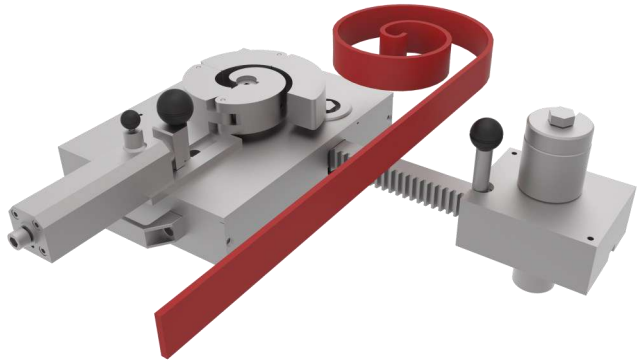


Cutting tool for bars

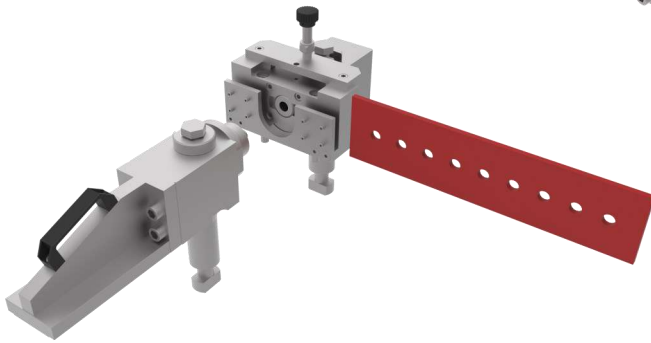




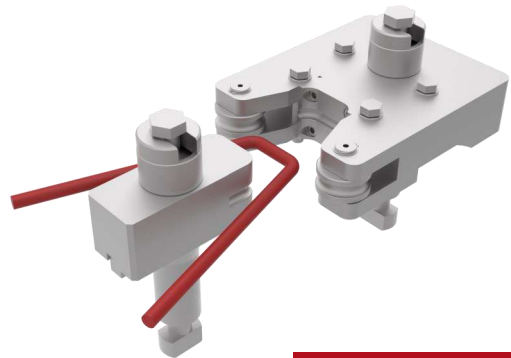
Tube punching unit



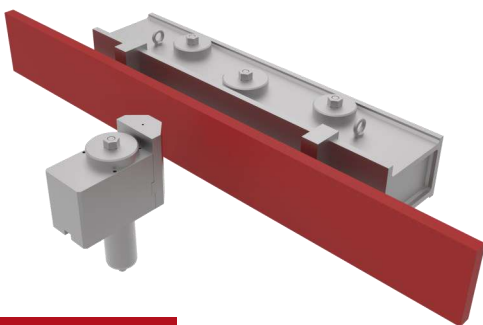
Spiral tool



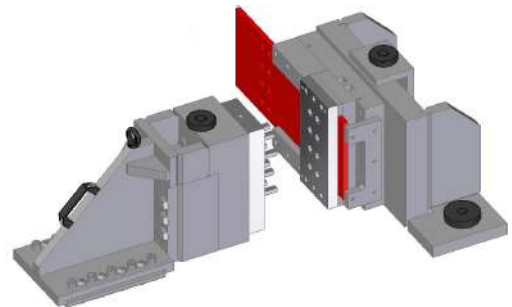
Punching unit



2-JAW bender



Bar straightening tool



Multiple punching unit

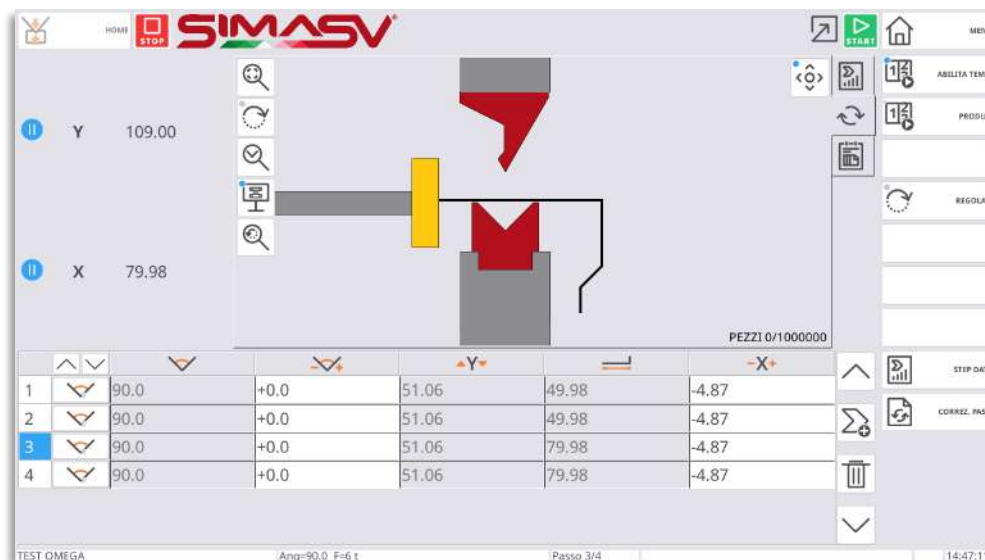
## SIMASV INTERFACE – CNC BENDING

SIMASV CNC horizontal hydraulic presses are equipped with the new “SIMASV Interface software”, developed and dedicated for horizontal press brake applications.

The CNC software is prepared for **Industry 4.0** and features a modern capacitive touch screen display, equipped with a powerful motherboard with dual LAN.

Our CNC offers full control of the new **automatic backgauge**, which is available in 1, 2 or 3 metre lengths for fast and accurate positioning of the workpiece thanks to the brushless motor.

Programs can be edited either by classic alphanumeric entry or by editing 3D parts with a simple integrated editor. It also allows DXF import of parts including angle and radius information and **3D simulation** including automatic or manual search for the best bending sequence. A tool editor via templates or DXF import is also available.



## General features

- ✓ Fast and direct input of angles and lengths
- ✓ 3D simulation including automatic or manual search for the best bending sequence
- ✓ No limit on the number of programs
- ✓ Tool editor via templates or DXF import
- ✓ Possibility to exchange data via USB stick or via network connection with the office
- ✓ Guided graphical tool set-up
- ✓ Management of piece counter and production times
- ✓ DXF import of parts
- ✓ Remote service tool

### Automatic angle adjustment



The SIMASV CNC horizontal press brake can be equipped with **active angle measurement**.

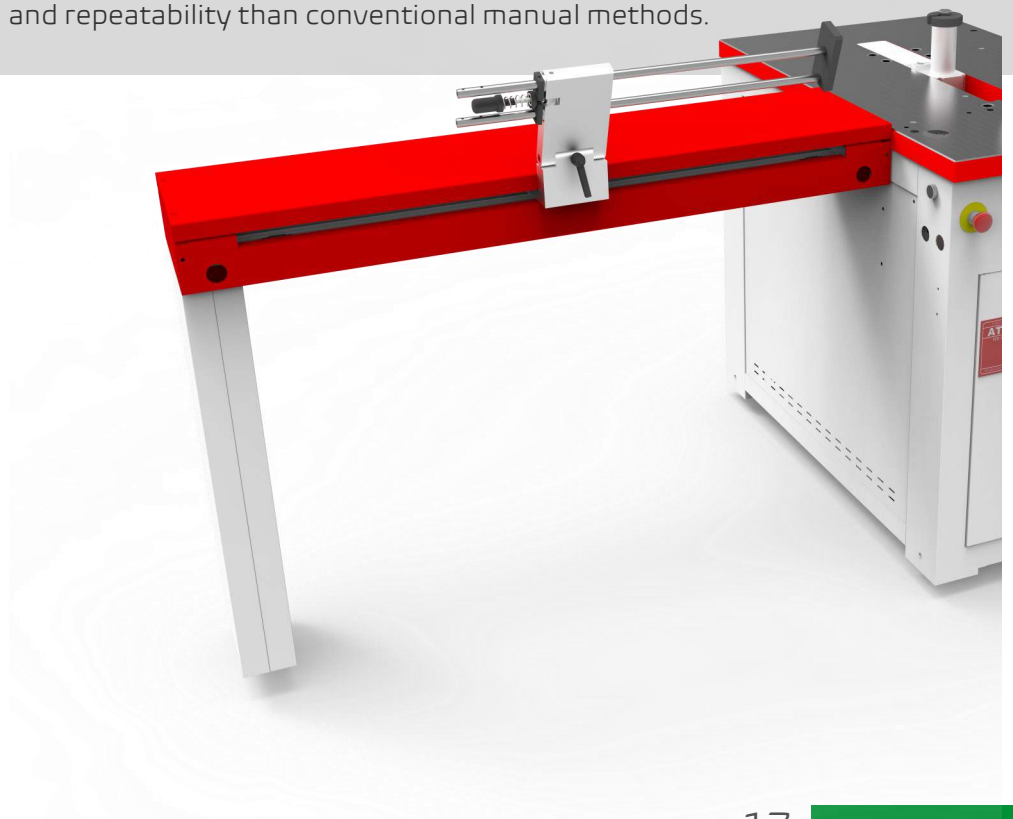
After each bending process, the bend is measured with the angle measurement and is re-bent with one or more further bends. This technology allows compensation for material fluctuations and different spring-backs in the material, allow precise and repetitive angles from the first bend, without the need to apply corrections.

SIMASV CNC presses can be equipped with the new brushless backgauge system.

Via the new CNC touchscreen, you have full control of the optional 1, 2 or 3 meter backgauge for fast and accurate part positioning.

The automatic CNC-controlled backgauge enables the production of single and mass parts with significantly higher accuracy, speed and repeatability than conventional manual methods.

### Automated CNC backgauge





# CUSTOM MACHINES

## READY TO USE

One of our strength points is the realization of special machines meant to bend and curve any metal material.

They are designed and manufactured **on specific custom needs**, combining the best technical solution with the budget possibility of our Customers, aiming at granting top high production rates and optimizing the costs. These machines are manufactured and assembled with top quality mechanical and electronic parts in order to grant them a higher level of reliability.

In order to manufacture our custom machines, our design project service is always at your complete availability for the analysis and feasibility of your projects for cost estimate, lay-out and final realization of the required suitable machine.

The design of our special machines originates from the analysis of the workpiece according to the customer's individual needs: this way, we create tailored solutions by offering maximum **flexibility** in terms of construction and performance, with ad hoc features in order to achieve the goal.



PUNCHCUT

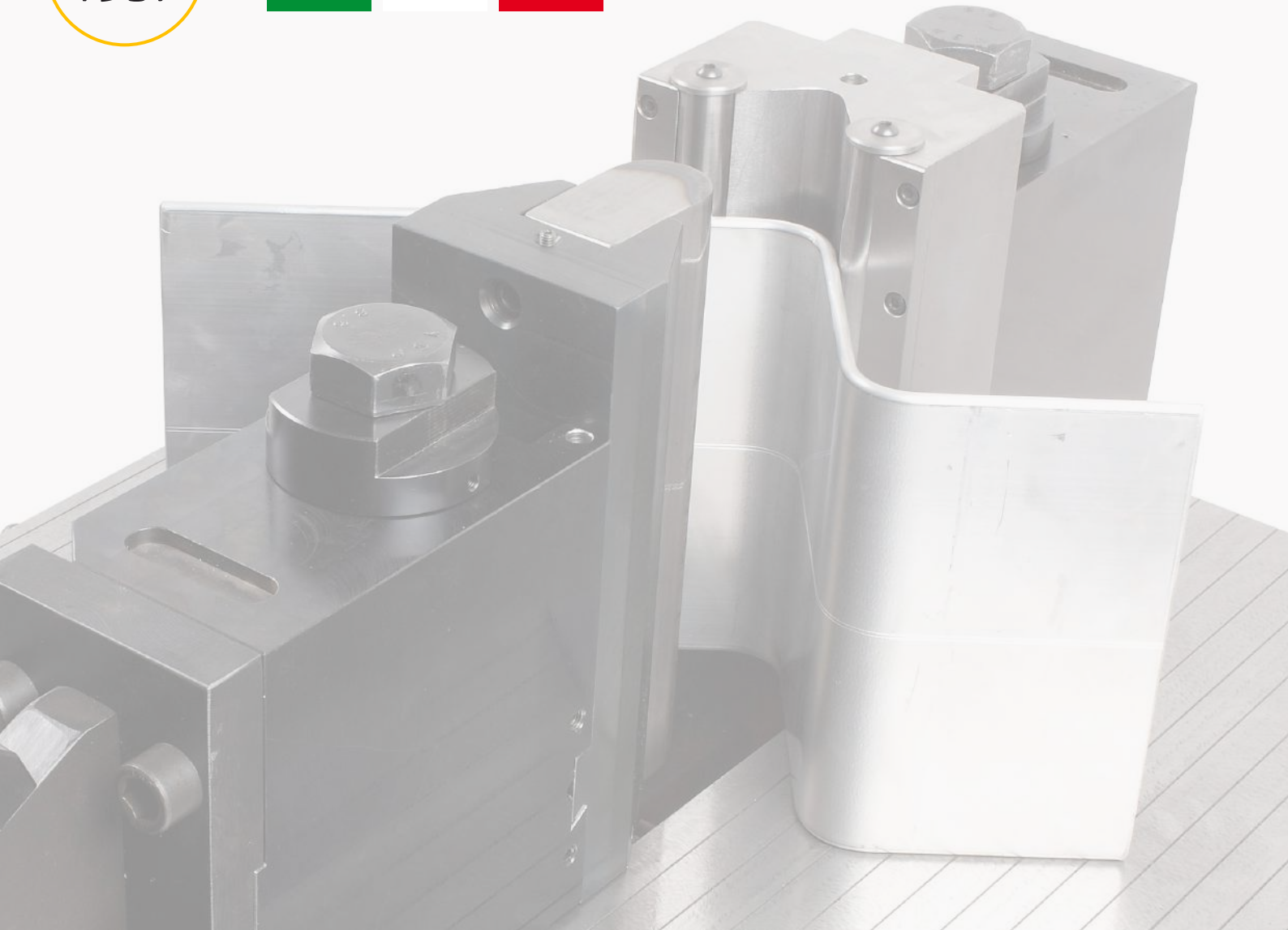
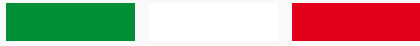


Rail bending and straightening press



SINCE  
1957

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