



STAMPAGGIO ACCIAI VARI



S.A.V. s.r.l COMPANY BROCHURE

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# HOT FORGING OF STEEL

CLOSED DIE FORGING OF ALL TYPES OF STEEL

HEAT TREATMENTS

PRECISION MACHINING

SURFACE FINISHES

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# 01 / HISTORY

*S.A.V. was born from the entrepreneurial dream of the Tapini brothers.*

S.A.V. has more than 60 years of experience in the **hot steel forging industry**, where it has become a key supplier in the production of parts according to the customer's specifications.

In the early sixties, the Tapini brothers decided to pursue their dream of becoming entrepreneurs and in **1963** they founded S.A.V. in a basement in **Caino, Brescia**.

Over the years, the company has become a **well-established factory** known for its **professionalism** and **reliability**, thanks to the hard work and flexibility.

Nowadays, **S.A.V. takes on many projects** as the **general contractor** and partners up with several local businesses in order to meet the quality expectations of its clients.

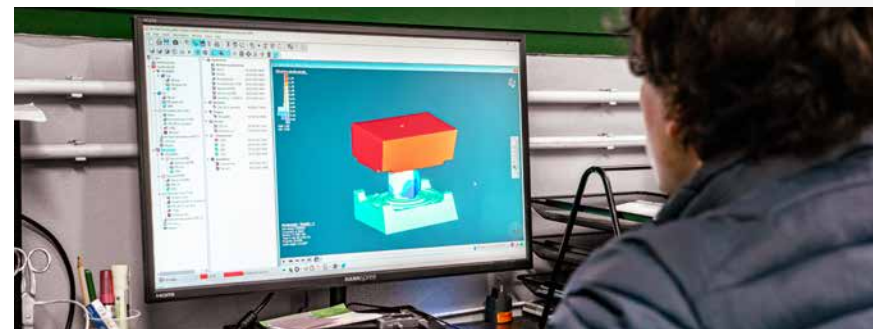


Internally, S.A.V. has four production lines and operates over an area of **5,000 square meters**.



## THE WAY WE WORK

*Once the draft is approved and the order received, S.A.V. starts with the design and the construction of the moulds, dies, and all the tools necessary for the production. It is at this time that the production process begins.*



Then, the company moves to the next phases in accordance with the client's specifications. **Precision machining, assemblies, and surface finishing** (galvanizing, electrocoating, phosphating, induction hardening, etc.) are only a few examples of the additional services that S.A.V. can offer.

One of our top priorities is to maximize our **customer satisfaction**.

The philosophy of **continuous improvement** forces us to constantly innovate and optimize our processes, and we pursue it by increasing the quality standards of our products.

This quality translates into perfect time delivery, careful selection of the best steel quality and suppliers on the market, and, above all, as a continuous effort to improve the service offered.

Our commitment is proved by the certification of the quality management system in compliance with the standard **ISO 9001:2015**. Recently, we have been certified also for the design and construction of moulds and dies.

**Professionalism, dedication, and perseverance** are our best weapons to face tomorrow's challenges with determination.





## PRODUCTION CAPACITY



In our production facility we hot forge items with a gross weight between 0,2 kg and 15 kg.

#### IN-HOUSE OPERATIONS:

- Closed die forging of all types of steel (common, alloy, carbon, hardening, tempering, etc.), except stainless steel;
- Hot shearing;
- Hot and cold automatic trimming;
- Sandblasting;
- Coining;
- Calibration;
- Construction and maintenance of moulds, dies, and tools.

#### EXTERNAL OPERATIONS:

- Heat treatments;
- Precision machining;
- Surface finishes, such as electrocoating, galvanization, and many more.

The desire to become a **trusted supplier** for our customers has led to a significant **flexibility in the product feasibility**. Therefore, we have strengthened **solid partnerships** with subcontractors to offer ready-to-assemble products.



# MACHINERY FLEET

S.A.V. s.r.l / MACHINERY  
FLEET

## LINE 1

- Steel forging furnace complete with hot shearing equipment;
- One-pass rolling machine;
- 1200-ton press;
- 160-ton trimming press;
- 2 robots (ABB and Kuka).

## LINE 2

- Steel forging furnace complete with hot shearing equipment;
- 100-ton preforming press;
- 1000-ton press;
- 130-ton trimming press;
- 3 robots (2 ABB and 1 Kuka).

## LINE 3

- Steel forging furnace complete with hot shearing equipment;
- Two-pass rolling machine;
- 1000-ton press;
- 160-ton trimming press.

## LINE 4

- Steel forging furnace complete with hot shearing equipment;
- 1600-ton press;
- 250-ton trimming press;
- 120-ton trimming press that can be used according to the product specifications.



# TECHNICAL DEPARTMENT

S.A.V. s.r.l / TECHNICAL  
DEPARTMENT

Software CAD/CAM for the design of moulds, dies, and tools. In particular:

- Visi (3 workstations)
- ZW3D
- Esprit

Software for the digital simulation of the hot forging process:

- Simufact Forming



## 06 / WORK- SHOP

- 2 x CNC machines;
- 1 x lathe;
- 1 x radial drill;
- 2 x milling machines;
- 1 x EDM machines.

S.A.V. s.r.l / WORKSHOP  
& WAREHOUSE

The internal workshop helps the company optimize the production process. Our aim is to keep up with the latest market technologies.

## 07 / WARE- HOUSE

- 1 x 630-ton calibrating press;
- 1 x sandblaster.



# MAIN SECTORS

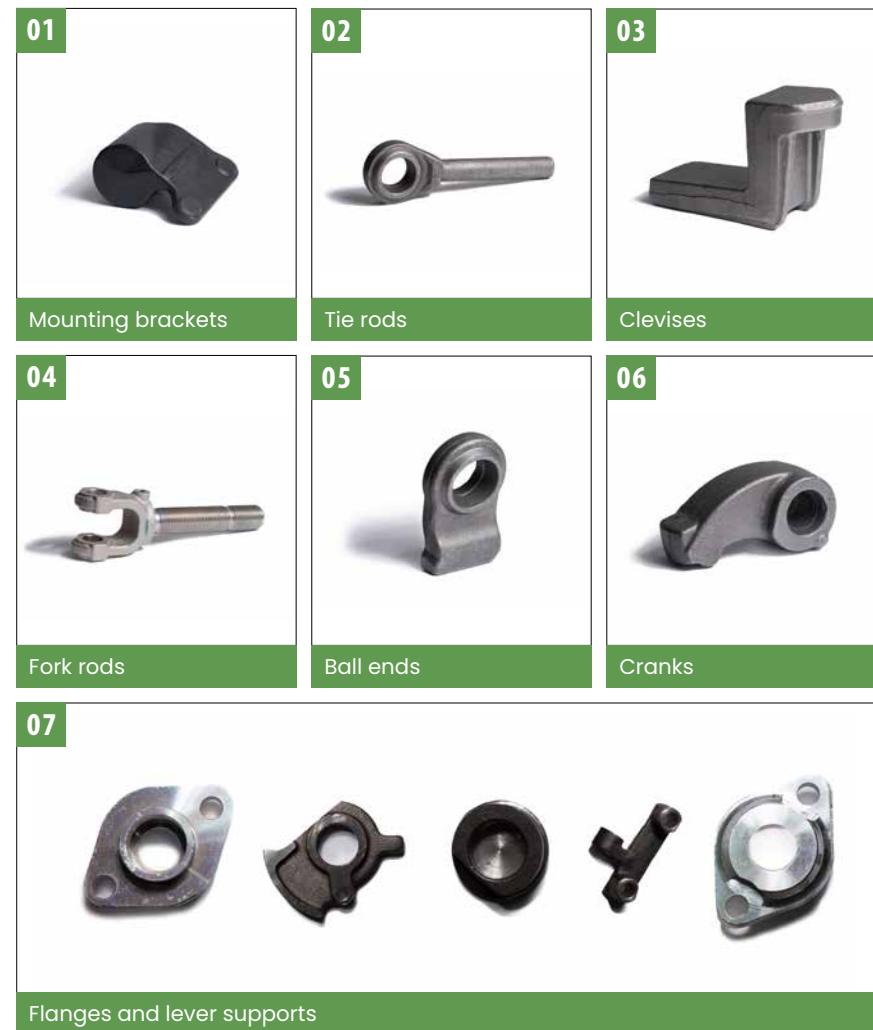
Our clients are specialized in components assembly for **international brands**, both as **Tier 1** and for the **aftermarket**. The following are selected examples of the main sectors we supply:

- **Agriculture** (tractors and agricultural equipment);
- **Automotive** (industrial and commercial vehicles, drawbar coupling, and platforms bodies);
- **Earthmoving machines** (heavy equipment, excavators, and mulchers);
- **Building industry** (post-tensioning anchorages and connections, components for road infrastructure);
- **Mechanical subcontracting** (components for: hydraulic cylinders and pumps, driveshafts, and gears).



**“Our products are manufactured for companies specialized in components assembly”**

# AGRICULTURE





10 /

S.A.V. s.r.l /  
AUTOMOTIVE

# AUTOMOTIVE

01



Flanges

02



Hinge systems

03



Ball joints

04



Hitch pins and levers

05



Transmission heads

06



Guides and tools

07



Fifth wheel hitches

11 /

S.A.V. s.r.l / EARTHMOVING MACHINES  
- BUILDING INDUSTRY

# EARTHMOVING MACHINES

01



Supports

02



Handles for rollbar

03



Fork heads

12 /

# BUILDING INDUSTRY

01



Post-tensioning  
anchorages

02



Junctions

03



Sliders  
and mixers

# MECHANICAL SUBCONTRACTING

01



Fork ends for  
hydraulic cylinders

02



Bottoms for  
hydraulic cylinders

03



Rod ends for  
hydraulic cylinders

04



Shafts for  
hydraulic pumps

05



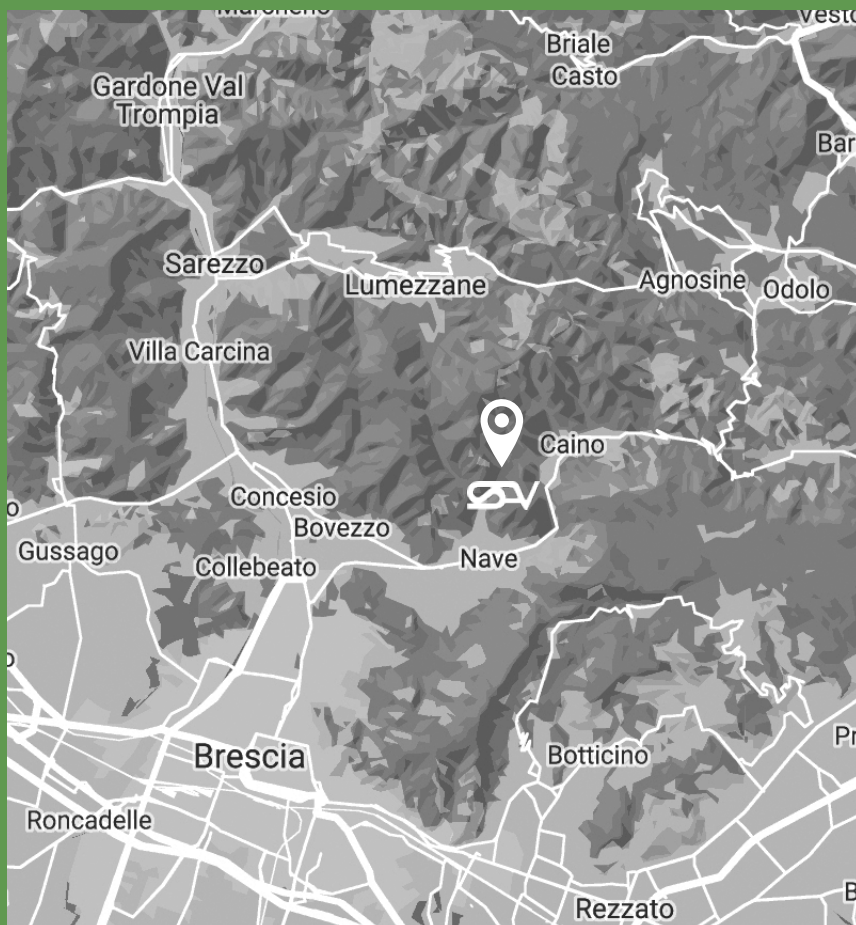
Cardan shaft  
components

06



Hydraulic  
pump bodies





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