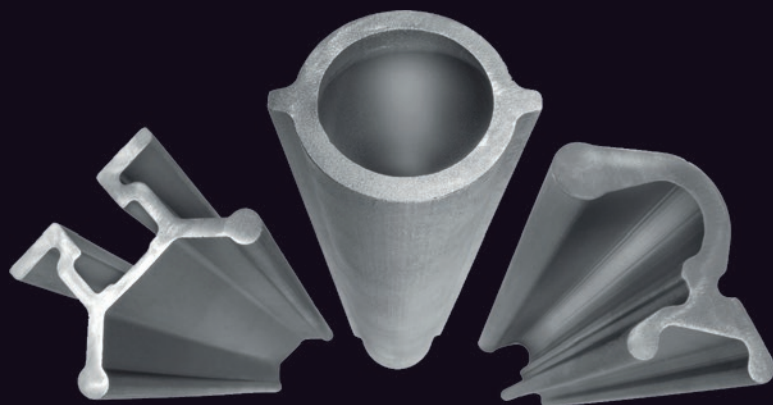


TAILOR MADE HOT EXTRUDED
SPECIAL STEEL
PROFILES.

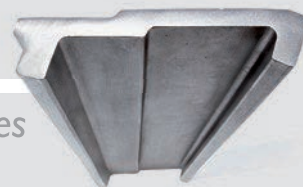


SIDerval
SPECIAL PROFILES IN STEEL



WHO WE ARE

Siderval special profiles



Founded in 1972 in Talamona in the province of Sondrio, where the Company still carries out its production work, Siderval S.p.A. has progressively established itself at an international level, and has become the market leader in special hot extruded steel bars produced by hot extrusion. Well known, and admired for its high quality standards as well as the wide range of services

which it offers, Siderval has acquired a vast knowledge of extrusion production technology during its forty years of industrial experience. Today Siderval, after substantial investment in technological improvement of its systems is able to transform different types of steel such as: carbon, alloy, high alloy, stainless steel and alloys and titanium.

SIDERVAL

A HISTORY OF QUALITY.

THE PRODUCTION PROCESS —



Preparation

Purchase of the raw material, laminated or forged solid round bars. Siderval uses an automated peeling system which has an annual production capacity of 42,000 tons which, as well as meeting our own production needs, can handle any external orders.



Cutting

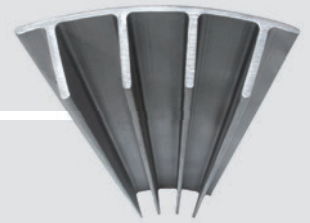
Special automatic saws cut the round steel bars into ingots of varying length according to the weight per metre and the length of the profiles to be made.



Heating

Induction furnaces and controlled atmosphere heating of ingots to a temperature appropriate to the quality of the steel.

Siderval special profiles



Extrusion

A modern horizontal hydraulic press with a capacity of 2400 tonnes extrudes bars of up to 16 m in length with complex sections, solid or hollow, designed within a maximum diameter of 200 mm.



Straightening

Automated machinery guarantees straightness and warp of profile bars of less than 0.5 mm/m.



THE BEST SOLUTIONS
FOR THE MOST COMPLEX SHAPES.

APPLICATIONS



AERONAUTICS

Special profiles for motor rings and seat fixing systems.



WEAPONS

Special profiles for military equipment, armoured vehicles and submarines.



BORING RODS

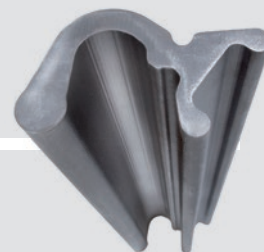
Special profiles for boring rod guides.



AUTOMOTIVE

Special profiles for automotive hinges and guides for assembly lines.





Siderval special profiles

LIFT TRUCKS

Special profiles for mountings and tools.



SPECIAL LIQUID TRANSPORTERS

Special profiles for tank closing systems.
Material used: stainless steel.



INTERNAL MOVEMENT

Special profiles for internal movement forks.



ARCHITECTURAL STRUCTURES

Special profiles for continuous facades.



APPLICATIONS



RAILWAYS

Special profiles for railway carriages and wagons.



BRIDGES

Special profiles for expansion joints.
Material used: carbon steel/copper.



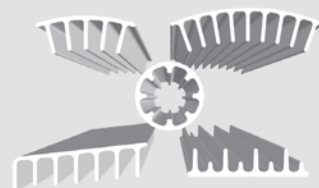
LIFT SYSTEMS

Special profiles for pulleys and system structures.



HEATING SYSTEMS

Special profiles for boiler furnaces.



Siderval special profiles



ENERGY INDUSTRY

Special profiles for boiler membrane walls, thermo-nuclear and hydraulic power station structures.
Material used: carbon steel, stainless and heat resistant steel.



MEDICAL INDUSTRY

Special profiles for hospital equipment.



FOOD INDUSTRY

Special profiles for food processing systems.
Material used: stainless steels.



MARITIME INDUSTRY

Special profiles for structures and windows.
Materials used: carbon and stainless steel.



APPLICATIONS



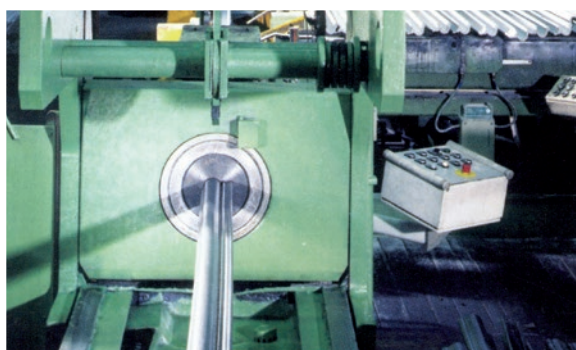
SHEET FOLDING MACHINES

Special profiles for tools.



AGRICULTURAL MACHINERY

Special profiles for agricultural vehicles and parts.



DRAWING MILLS

Special profiles for blank drawing.

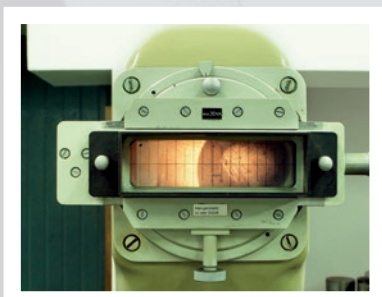




THE ADVANTAGES OF SIDERVAL KNOW-HOW

Siderval uses cutting-edge technology which offers technically innovative and economically advantageous solutions such as:

- production of complex and unusual profile shapes in tubular and solid section which cannot be produced using other hot or cold working techniques;
- transformation of high alloy steels which, due to their high cooling velocity and consequential hardening of the material, require rapid deformation;
- Production of small quantity orders allowing competitive prices due to limited tooling costs, giving the possibility to have a number of sample bars at no added cost;
- Siderval guarantee exclusive use by the client of bespoke tooling.



QUALITY CERTIFICATION

Siderval operates to quality standards: UNI EN ISO 9001, TÜV AD2000-MERKBLATT WO/TRD 100 AD-MERKBLATT WO/TRD 100 AQAP 2120 Ed.1. Also to the environmental management system, UNI EN 14001. Siderval is also able to comply with the specifications of various external bodies or other control systems (Lloyd Register, Rina, TÜV etc.).

The Siderval technical department is equipped to carry out the following tests: technological tests (hardness, microhardness and tensile tests), chemical analysis (by spectrographic methods), non destructive tests (magnetoscopic examination) and surface tests (roughness).

SIDERVAL AROUND THE WORLD



Siderval special profiles



CHINA JAPAN

WHERE WE ARE

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The background of the image is a light gray with a large, faded, and slightly blurred image of a hot extruded steel profile. The profile is a complex shape with multiple flanges and a central web, typical of a wide-flange beam. It is oriented diagonally from the bottom left towards the top right.

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