



 **garsán**
Machining Engineering
Special Welding.



garsanes |



Machinery

We have been manufacturing CNC parts since the 80's and since then we have been renewing and incorporating new means of production in accordance with new technologies.

We have:

- Horizontal CNC lathes up to 10 meters between points.
- Boring machines for large pieces.
- 4-axis CNC milling machines.
- Vertical lathes.
- Presses up to 500 tons.
- Saws for longitudinal cutting of pieces up to 6 meters in length and 1,300 mm in diameter.
- Deep drilling machine for holes up to 3 meters in length.
- Welding positioners for large pieces.
- 8m³ Stress relief furnace
- 12 bridge cranes up to 20 tons.
- A list of machines that complete a large park.

Activity sectors and products

More than half a century in the world of mechanization, special weldings and overlay weldings. Time endorses our experience in that sector.

During all this period of time one of our strong points has been the diversification which has permitted our company to feel comfortable in related areas such as the industrial, petrochemical, military, naval, mining and energy areas among others.

Besides the machining of medium- and large-size parts for the aforementioned sectors, we are specialized in anti-wear overlay weldings resistant to abrasion, corrosion and impacts through **Plasma Transferred Arc Welding (PTA)** in which we use a wide range of filler materials according to customer requirements.

By means of this system we can considerably lengthen the lifetime of many of the parts, which results in a considerable save of money for our customers both in the purchase of new components and in the duration of the maintenance operations. In this way we can considerably reduce the plant shutdowns to substitute the components which could be initially taken as a loss.

As it could not be otherwise, we have homologations for both procedures and welders for a multitude of materials as appropriate.

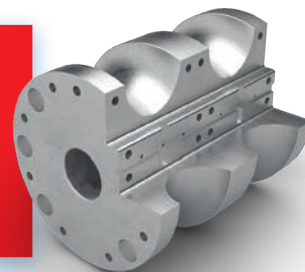
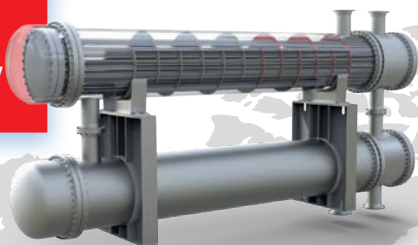
We also manufacture custom hydraulic hoses in which we use Aeroquip-Eaton brand components.

Another important part of our business are the **bimetallic parts “clads”**, increasingly used in sectors such as marine and industry. We have been manufacturing laminated aluminum steel bimetallic parts since 1991 and currently we can offer bimetals by explosion process using different materials such as: carbon steel, stainless steel, copper, aluminum, nickel, titanium, duplex, etc.





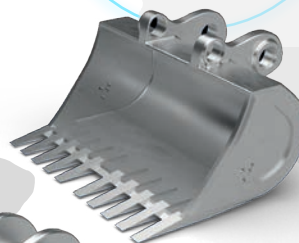
For the **Petrochemical sector**, we make anti-wear coatings both inside and outside, in nominal diameters from 160 to 1,200 mm and thicknesses from 2 to 40 mm depending on the material. For this purpose, we are a company certified by the Ministry of Industry as a company that builds and repairs pressure equipment. We also manufacture small and large flanges to customer specifications, as well as tubular plates.



In the **Industrial sector**, we can easily manufacture or repair components for capital goods and machinery in general, pinions and straight-cut or spiral bevel gears, as well as moulds in different materials.



For the **Nautical sector** we manufacture and repair tail shafts, bushes, rudder bits, guides, pulleys, drums, gears, crane components, etc., and we also recuperate vaporizer valve stems and other components by means of our special overlay weldings.



We are specialists in solving problems of wear by friction, abrasion or erosion both for the **Mining sector** and the quarrying and biomass companies in parts such as kneading augers, crusher components, blade teeth, hammer heads, nails for mining machinery, drums, impellers, rail sections, etc.

For the **Energy sector**, we manufacture and repair components for wind turbines and solar panels. We also supply any hydraulic component and manufacture special supports for accumulators in hydraulic power stations.



For the **Military sector**, we manufacture and repair all types of welding tools and components for special and defense vehicles.



R+D+i

We are aware that the innovative character of a company configures its current and future competitive capacity. That is why our R+D+i department has developed and evolved through a long professional experience of **more than 50 years in the sector**, which together with the creativity of our young team of engineers, form the key piece on which all our projects are based.

Thanks to constant research, we are able to develop effective solutions to meet the particular needs of each client.

We believe in a new concept which means an active listening for a better understanding of what our customers demand to be able to develop solutions that meet the challenges posed by them and by an increasingly demanding market.

We have a data capture system in the plant, which allows us to manage, control and monitor our production in real time, providing us with **reliable and truthful information** that helps us make decisions and improve our processes.

We also have the Siemens CAD-CAM solution “NX” for the design, optimization and acceleration of our product development processes.



The company

GARCÍA SANTOS; GARSÁN S.A.U. started its activity in 1968. We are a family-run company with recognised experience in the mechanization of all kinds of materials and overlay welding, in which we use many different filler materials according to customer requirements or on the basis of the study of each part, depending on its use.

We maintain a young and dynamic attitude, taking responsibility for providing our customers with efficient solutions adapted to their needs, which facilitate the normal development of their maintenance operations.

Facilities

Our facilities are composed by 20,000 m², of which 1,500 m² are offices and more than 10,000 m² are covered areas made up of 9 industrial units:

- 1 Welding and boilermaking unit
- 2 Washing and mechanical assembling-disassembling unit
- 3 Raw materials and spare parts unit
- 4 Saws unit
- 5 Lathes unit
- 6 Milling and grinding unit
- 7 Boring machines unit
- 8 Vehicles unit
- 9 Bimetallic parts unit

Quality


Our fundamental commitment is to offer maximum customer satisfaction, which translates into ensuring a quality product on time.


In Garsán we have implemented and applied a **quality management system** according to the requirements of the UNE-EN ISO 9001:2000 standard, certified by AENOR, and we also have the 14001 and 18001 environmental and Oshas certifications, respectively, and other more specific ones.


In addition to external quality control, we are very concerned that the final product must fully satisfy the customer, so quality control in all stages of production is vital. We have our own inspectors, both for welding and for non-destructive testing, certified by CESOL and CERTIAEND respectively.





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