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We use SPC for continuous process control, and REAL TIME data capture for production control



• Raw materials:

We have a pickling installation for preparing the raw material, as well as one for drawing it, being able to draw steel from \emptyset 6 mm to \emptyset 22 mm.

Stamped nuts

We currently have a total of ten 5-station stamping machines, with cutting diameter up to \emptyset 22 mm. This allows us to manufacture highly complex nuts with various geometries.

Stamped special parts

In order to manufacture special parts we have invested in three 6-station machines, one of which with a cutting diameter of up to \emptyset 30 mm.





Stamped bolts

Our three bolt machines, two of which being 4-station, allow us to manufacture a range of bolts from M6 to M16, both standard and special.

• Threading

With regard to threading parts, there are twenty-two machines dedicated to this operation, six of which being for special parts, with the ability to thread up to M20.

Workshop

To manufacture a part for our own tooling, we have a machining workshop that provides us with greater flexibility and a faster response to handle any emergencies that may arise.

• Tool magazine

We manage and control the tools with the help of a computerized magazine that allows us to optimise use.





Sorting machines

To achieve our goal of 0 defects, we have five 100% sorting machines, divided into three groups:



- The first group controls height and thread presence.
- The second group comprises two 3D vision machines employing cameras with different types of lenses, allowing us to control the geometry of the part from different angles. The controlled dimensions are:
 - · Inner and outer Ø.
 - Height
- · Internal shavings
- · Cracks and fissures
- · Thread presence
- Presence of protuberances
- Deformities

The third group consists of a control machine for screws and special parts with 360° control to check presence and geometry of external threads and for cracks all around the contour, as well as other cameras that check heights and inner and outer \emptyset .



PRODUCTS



We manufacture three families of products in steel, and in the case of nuts also in stainless steel.

- Steel nuts Class 6, 8, 10, 12 / Stainless steel: A270, A280
- Bolts Class 6.8, 8.8, 10.9, 12.9
- Special parts

Nuts

This is our main product, manufactured in different types: Standard, weldable, flanged, self-locking From M5 to M20.

Screws

Both Standard and Special, M6 to M16.

Special parts

We can manufacture special parts from \emptyset 6 mm to \emptyset 35 mm, depending on the geometry of the part.







QUALITY



The parts are checked by the quality department after each manufacturing process and external procedure. For this purpose we have measurement and control equipment such as:

- · Universal testing machine (tensile/compressive strength) up to 30 t
- · Hardness tester
- · Micro durometer
- · Digital profile projector
- · Thickness gauge
- · Calipers and dial indicators
- · Thread and core Go/No-Go control jigs





CUSTOMERS



