



**FASTENERS FOR RENEWABLE  
ENERGY STRUCTURES**

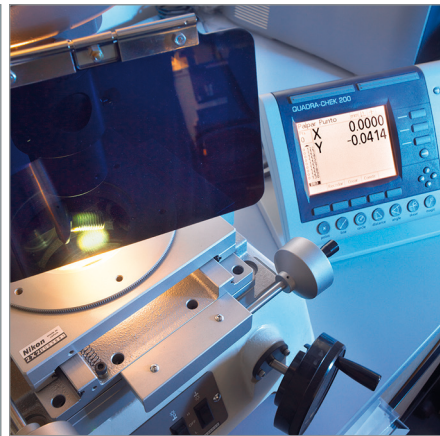
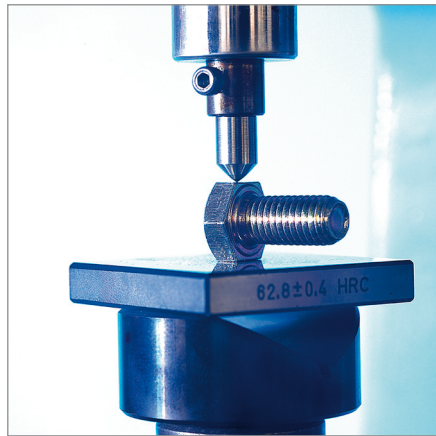
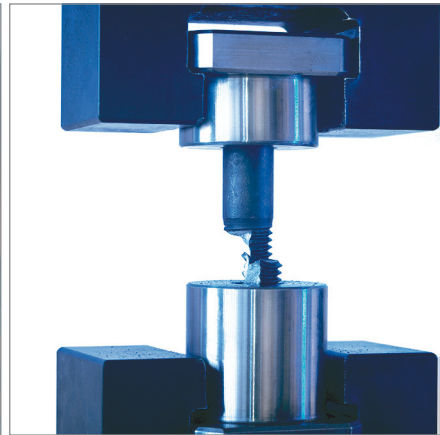
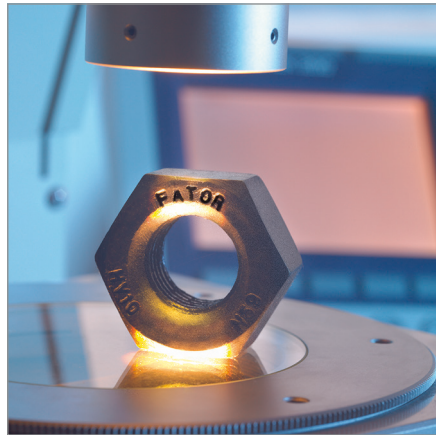


## FATOR

founded in 1979, specialises in meeting the needs of a very diverse range of industrial sectors in both the Spanish and international markets, offering an extensive range of general and specialized fasteners.

We are a global reference as a supplier of nuts, bolts, washers and high resistance special fasteners.

The quality of our products and management of our working system allows us to offer a reliable and efficient service that guarantees client satisfaction.



Our modern robotized warehouse for close to 7.000 pallets allow us to co-ordinate stock averaging some 6.000 tons of products.

Our powerful computerised stock control system guaranteed rapid response and dispatch of all our customer's orders.

**bolts**

**nuts**

**washers**

**anchors**

**stud bolts**

**U-bolts**

**J-bolts**

## LABORATORY

The endeavours of Fator, to deliver excellent product quality, does not stop with the extensive manufacturing process controls, and quality tests at the manufacturing plants, but reensures the certified quality of its products, and the mechanical specifications, in our own inhouse laboratory, in order to comply with the necessary standards, retesting all incoming material issuing final certification.

All Fator products carry traceability codes, to be able to trace its complete manufacturing process, from raw material, to finished product.

Our laboratory is equipped with the following testing means: Tensile test machine, traction and compression force 600kN.

Video extensometer, used during tensile test to calculate the yield strength and elongation.

Sparking equipment for chemical composition analyses, for carbon and stainless steel.

Hardness tester Hrc-Hrb.

Profile proyector for dimensional control.

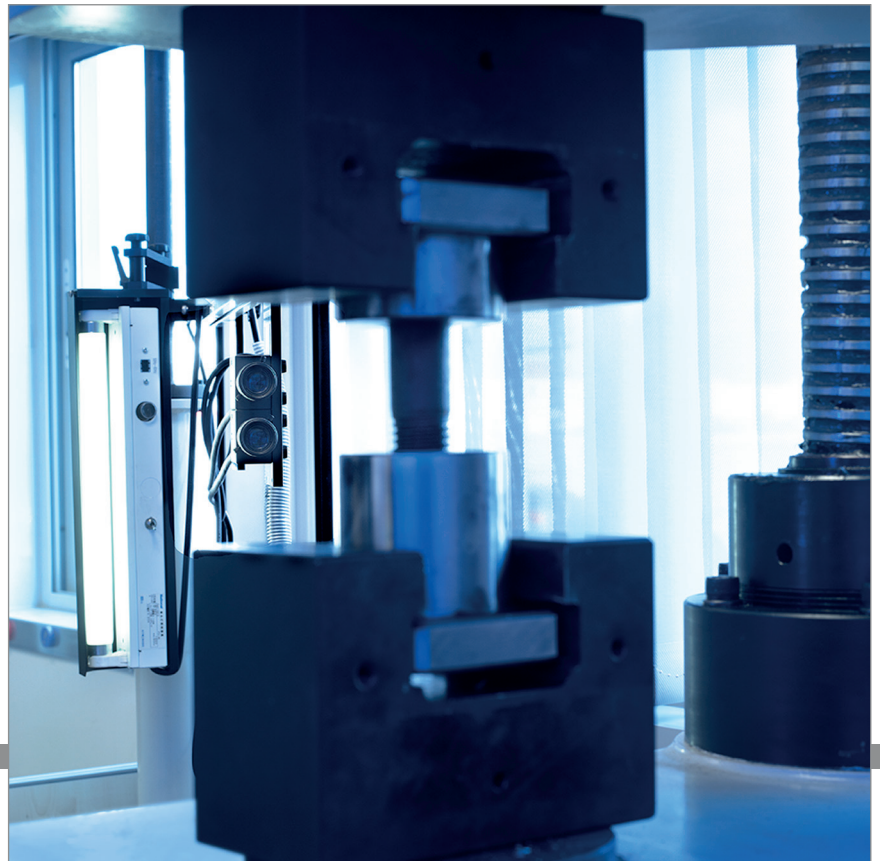
Metalographical cutting machine for sampling.

Magnetical coating thickness measuring device.

Go-no go gauges for dimensional control.

We also realize customized product tests, as for example, fatigue tests, failure analyses, impact tests, bending and wedge tests, etc, on any single or assembled product.

Our technical department offers to our customers, according to the particular specifications of the products and applications, the necessary information for the correct functioning. We also offer, technical analisis and solutions in case of incidents, specific tests of the materials and application of the norms associated to each and every product.





## PRODUCTS

We are a professional manufacturer and distributor of fasteners for renewable energy projects leaders in the Spanish market and Europe.

We are specialized in fasteners for:

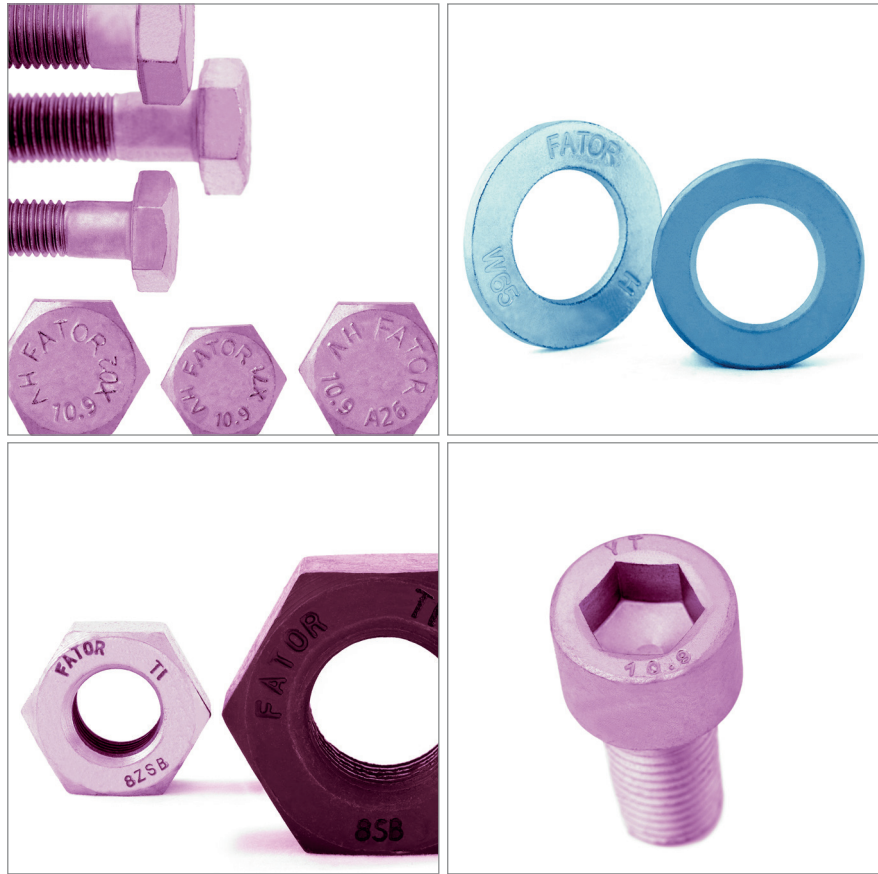
Solar trackers and fix solar structures.

Thermosolar collector systems.

Generators on and offshore.

Power transmission towers.

Gas and biofuel power plants.



## COATINGS

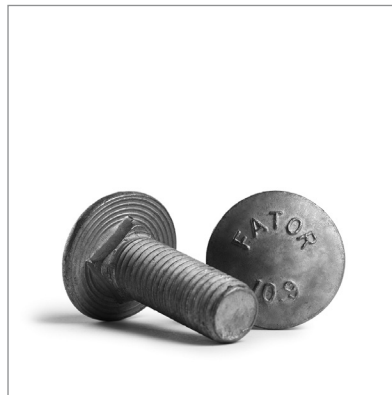
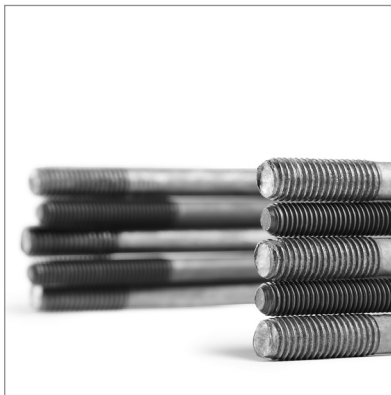
HOT DIP GALVANIZED as per ISO 1461 and ISO 10684,

ZINC PLATED as per ISO 4042,

ZINC-NICKEL as per ISO 4042.

GEOMET 321 and 500 grades A/B,

MAGNI 565.



plates

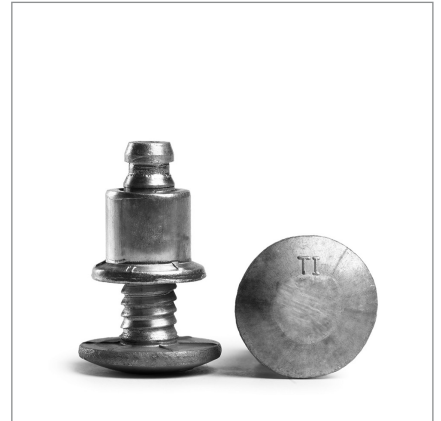
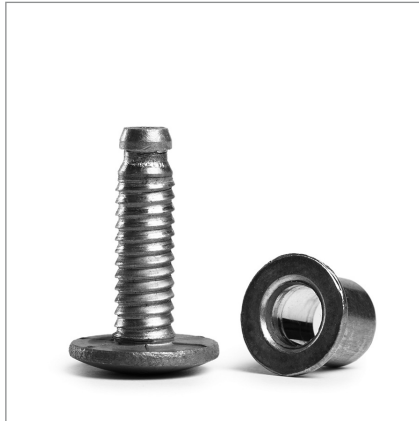
square plates

rectangular plates

bolts

nuts

washers

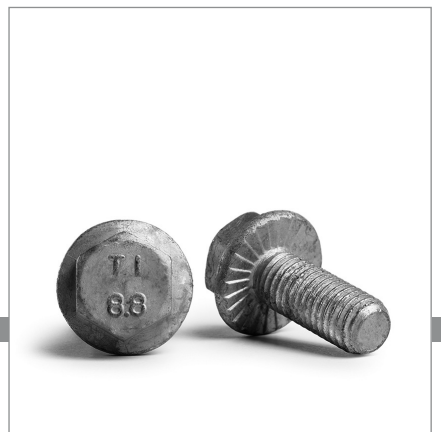


## ALUMINUM AND STRUCTURAL RIVETS

Save installation time and avoid re-tightening process using our new aluminum rivets Steptail® and our high strength structural blind rivets of carbon steel; sizes available from Ø6mm to Ø12mm.

Steptail® aluminum rivets are available in Ø6mm and Ø8mm with a wide grip range to adapt any application. Its large head diameter of 16mm increases the grip strength and improves the two-piece joint fixing.

High strength structural blind rivets are the best solution for those assemblies of your designs with higher mechanical resistance demands. They are also ideal for your hollow connections.



**anchors**    **stud bolts**

We develop new products in cooperation with our costumers and prestigious engineering companies.

Our fasteners are an essential part of the metal structures that face the solar panels or parabolic mirrors to the sun, and the means that keep the tower of a wind generator or transmission power, upright.



**U-bolts**

**J-bolts**

**L-bolts**

**special fixations**

**plates**

**square plates**



## CERTIFICATIONS

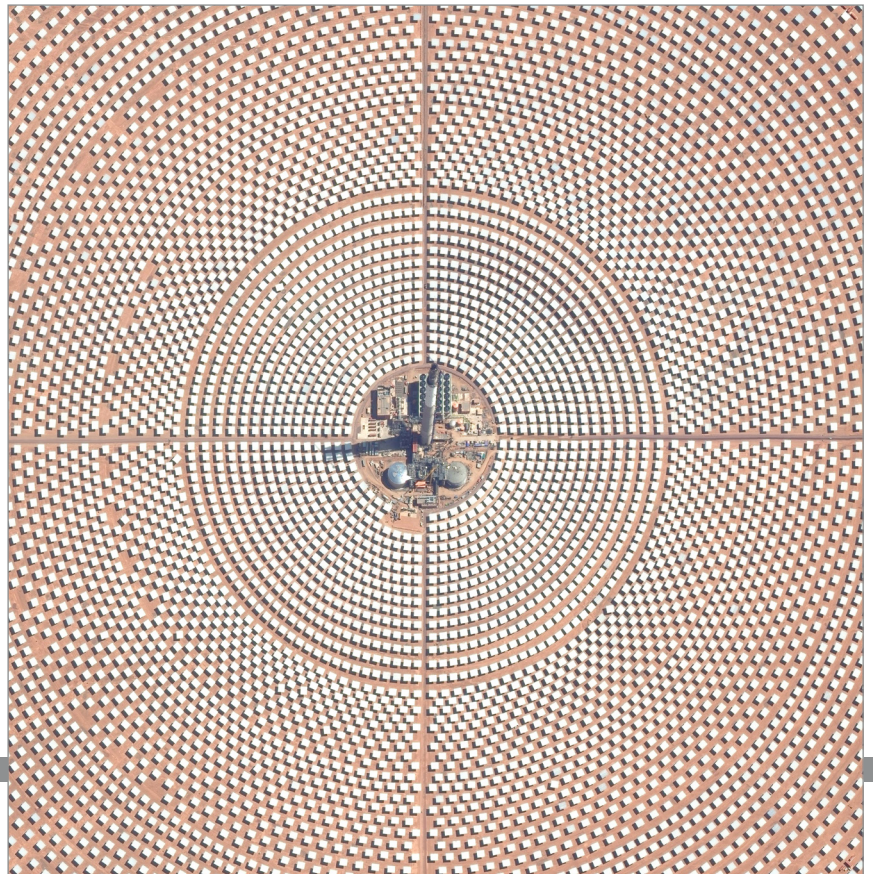
CE certification for High-Strength structural bolting assemblies for preloading EN 14399-1.

CE certification for non-preloaded structural bolting assembly EN 15048-1.



## PROJECTS

We cooperate in the realisation of renewable energy projects with the mayor energy companies in Europe, and we are expanding globally.



**rectangular plates pins**



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