



CONNECTING PLANTS FOR A SMART WORLD





A company with extensive and highly qualified personnel for the design and manufacture of **Electrical Systems, Electrical Engineering and Industry 4.0.**

GECSA's workshops and offices, with a total surface area of **2.400m²**, are in the north of Spain and very well connected to the seaport and the airport .



EXPERIENCE AND TECHNOLOGY IN ALL OUR SERVICES



Electrical Conductors

Specialized in the design, manufacturing and assembly of conductors mainly for high currents. We provide integral tailored solutions for each customer.



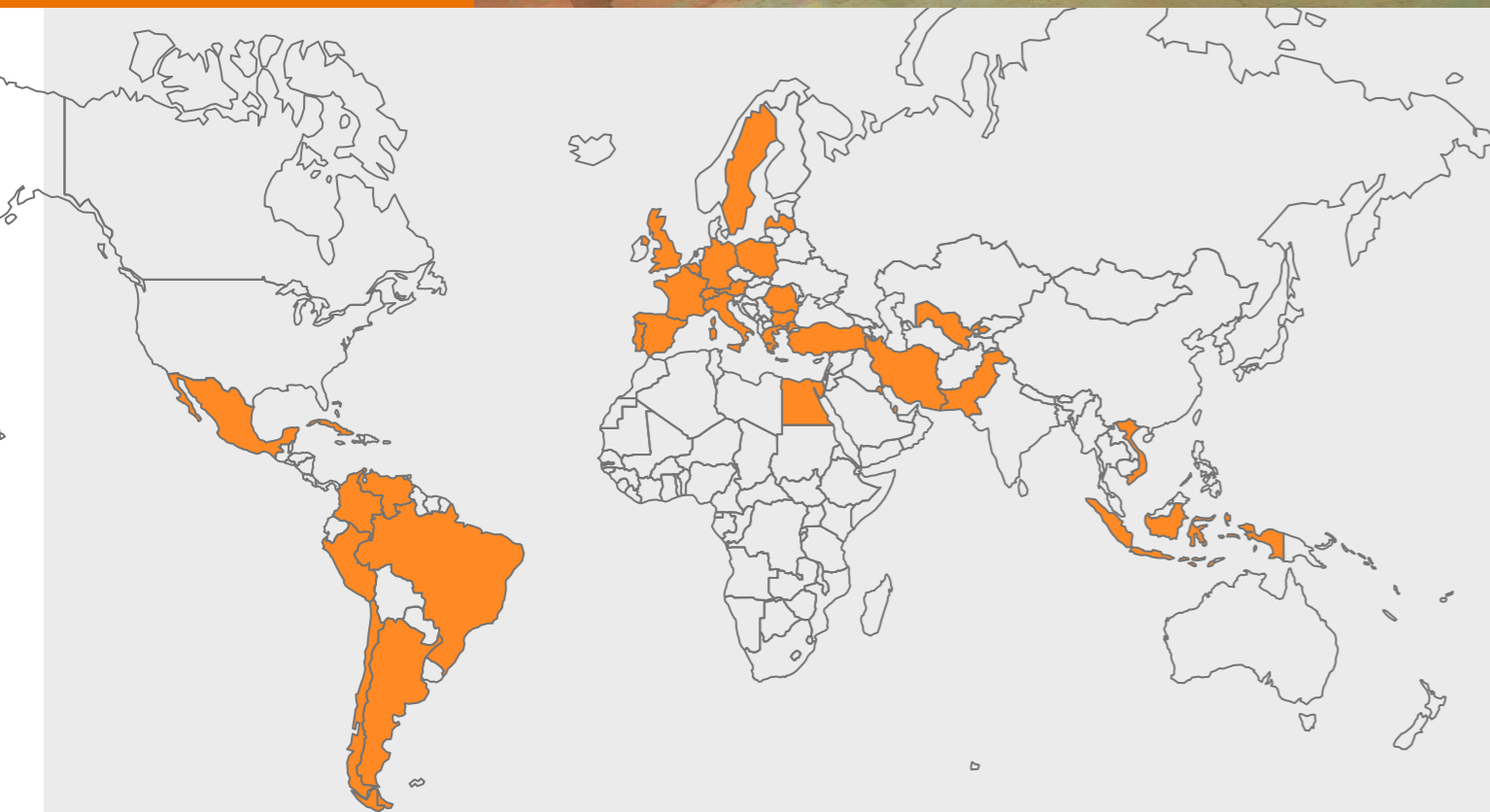
Electrical Engineering

Turnkey projects and tailor-made solutions in medium voltage electrical systems, energy optimization and reactive power and harmonic filtering.



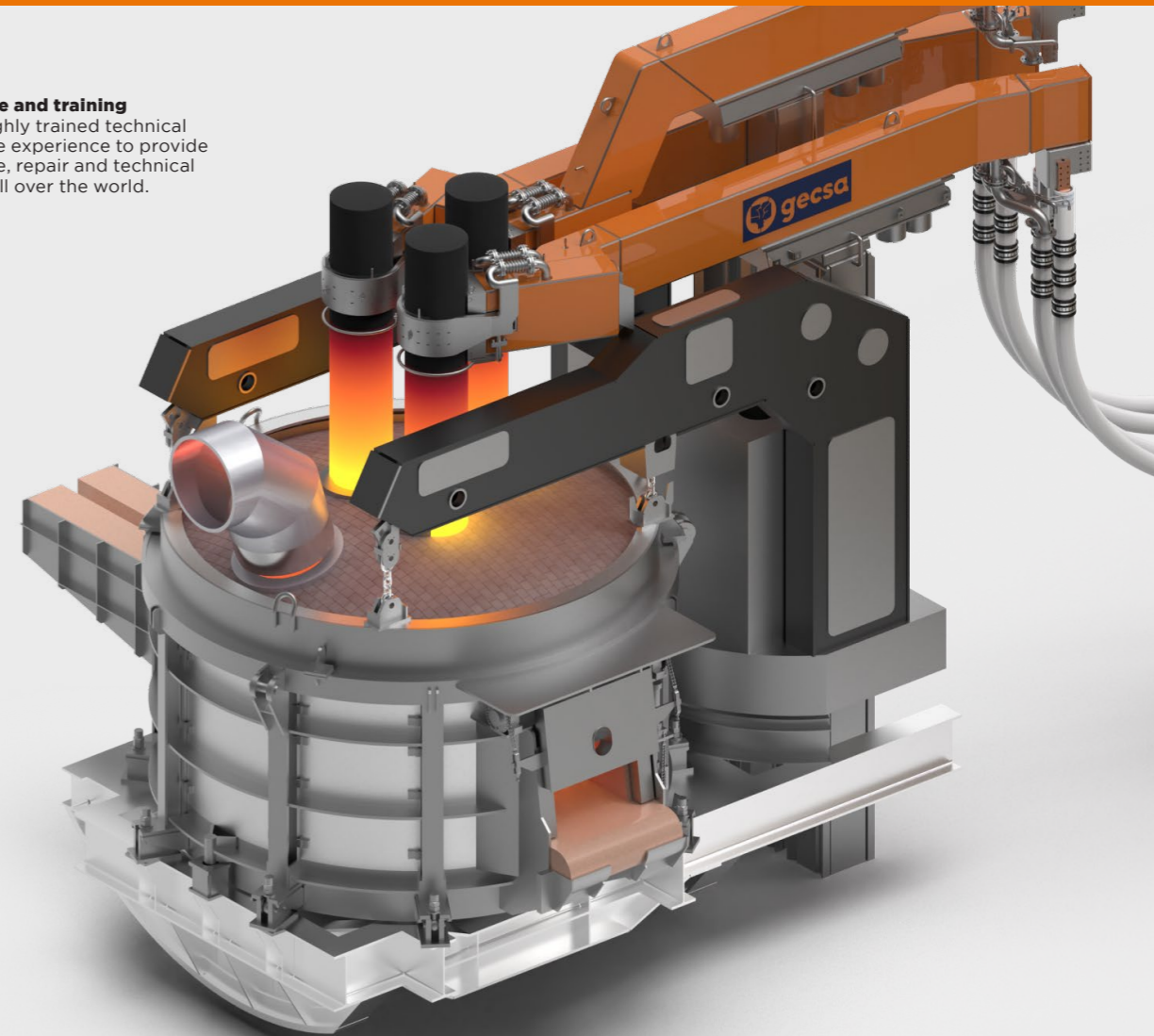
Industry 4.0

We develop and implement customized solutions to bring each client closer to Smart Factory.



Maintenance and training

GECSA's highly trained technical team has the experience to provide maintenance, repair and technical assistance all over the world.



→ GECSA IN NUMBERS

120

installations

48

countries

41

professionals

500

clients

SECTORS



STEEL

Supply of low voltage secondary circuits, 4.0 management and improvement system and electrical engineering for medium and low voltage electric arc furnaces

FOUNDRY

Supply and maintenance of components for induction furnaces, both for equipment manufacturers as well as for end users (foundries) or auxiliary companies that provide service. The company's main activity is the **coil manufacturing and repair**, which is responsible for the production of the magnetic field in which the material is melted by electromagnetic effects.

FERROALLOYS

Supply of low voltage secondary circuits, regulation and control system and electrical engineering for medium and low voltage, specialized in submerged electric arc furnaces. Complete projects of conductor systems for alternating current.

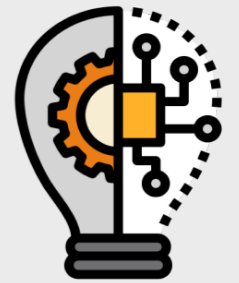
ELECTROCHEMICAL

Specialized in electrochemical processes with high intensities mainly for chlorine, copper, aluminum, and zinc. Design, manufacture and installation of direct current busbars, regulation and control systems and electrical engineering for medium and low voltage.

ELECTRICAL MACHINE

Manufacture of custom-made connections, flexible or rigid, made of copper or aluminum, for generators, motors, and high-power transformers.

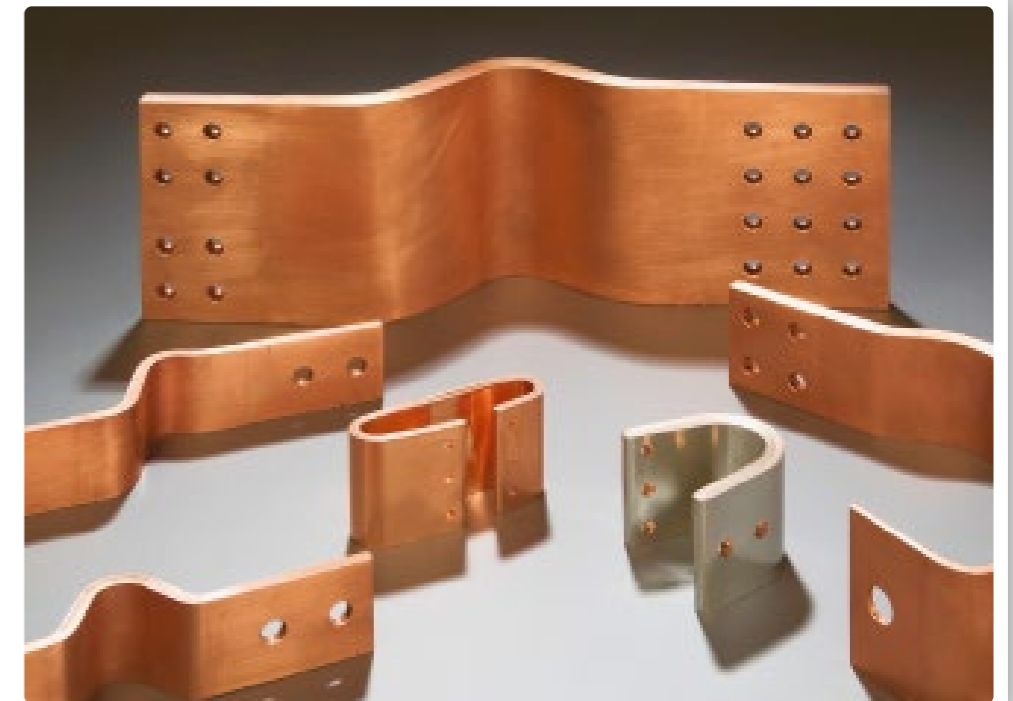
ELECTRICAL CONDUCTORS



GECSA has a technical support to solve the different challenges of our customers.

Flexible Connections

Connections made in braids or sheets for joints with relative movement or vibrations and for grounding requirements.



Conducting Arms

Design, manufacture and installation of new equipment or modification of existing ones. Maintenance service with chemical cleaning and repair of damages.

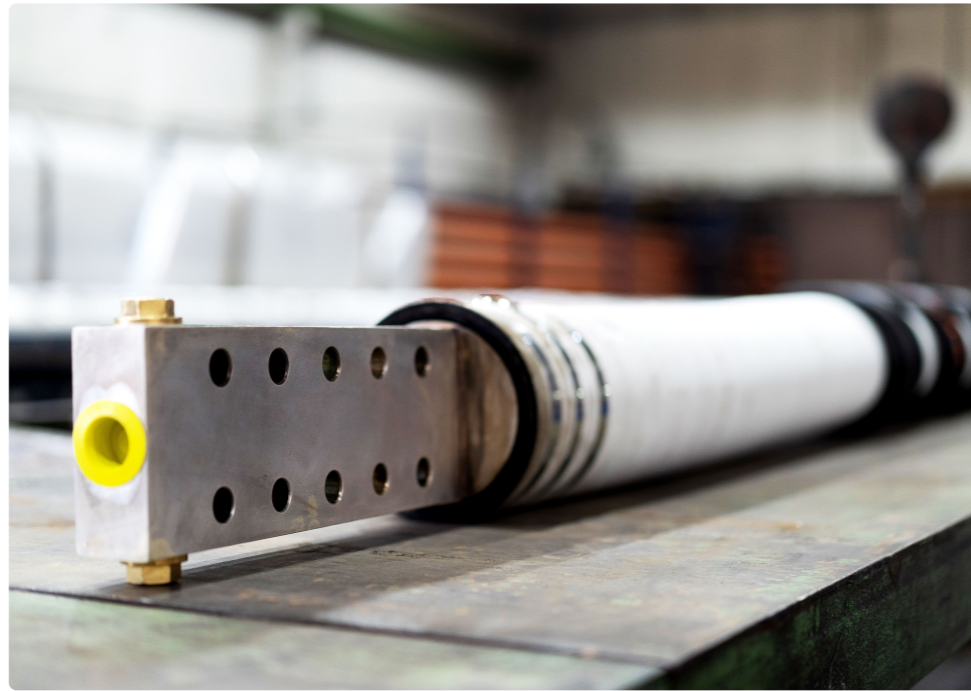




CONNECTING FURNACES FOR A SMART FUTURE

Power Cables

Tailor-made with high quality materials that give our cable the highest efficiency and durability.



Busbars

Calculation, manufacturing, testing, assembly and commissioning of copper or aluminium conductor systems for high currents. Water or air cooling.



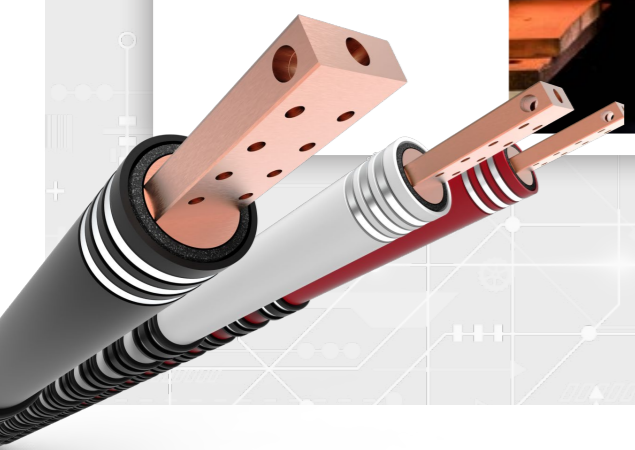
Weldings

We are specialist in welding of copper, aluminium, stainless steel and their alloys by means of high intensity MIG and TIG procedures.



Engineering and services

We design all the elements that make up the electrical circuit in high current consumption plants and we repair copper and aluminium parts of all types of installation.





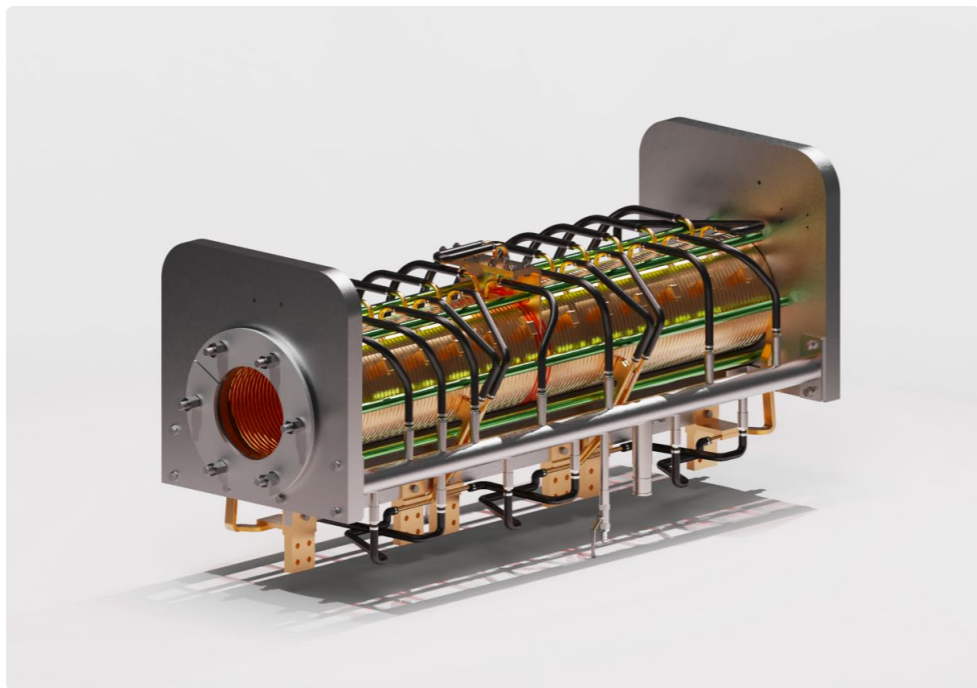
Technical Support

Our experienced and qualified staff performs on customer request maintenance, start-up, and repairs, either in our facilities or on site. Ask us about what GECSA can do for you.

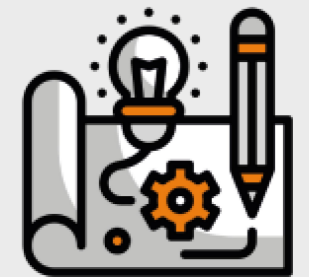


Induction Furnaces

We are experts in induction furnaces, both for crucible furnaces and channel furnaces. We perform maintenance and repairs in workshop or plant for coils and inductors, as well as electrical engineering. GECSA also offers the manufacture of custom-made parts.



ELECTRICAL ENGINEERING

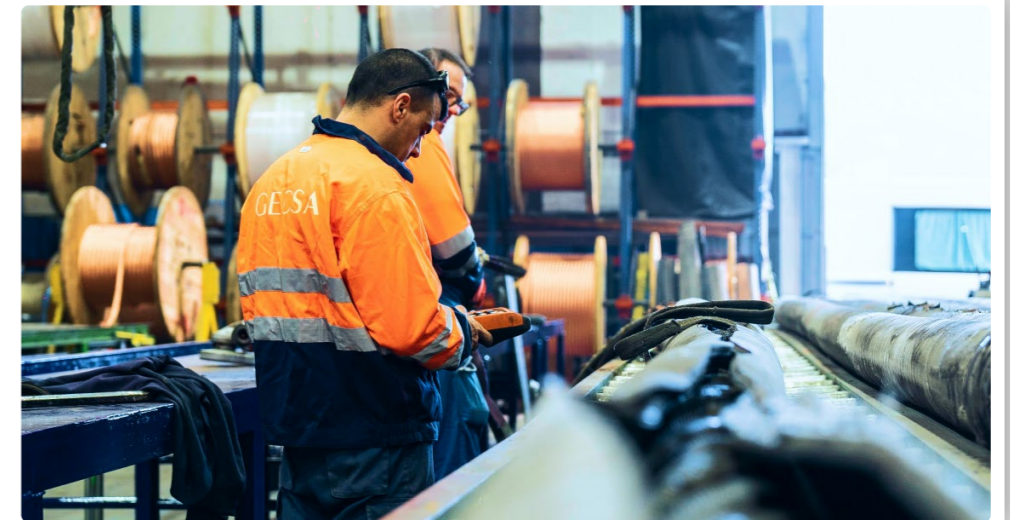


We carry out projects, supply, installation and commissioning of high and medium voltage circuits in steel mills, foundries and electrolysis plants.

Solutions

Project implementation, supply, and installation of electrical equipment:

- Vacuum circuit breakers
- RC circuits
- Autovalves
- Disconnectors
- Reactive power compensation systems
- Measuring and protection equipment, filters, etc.



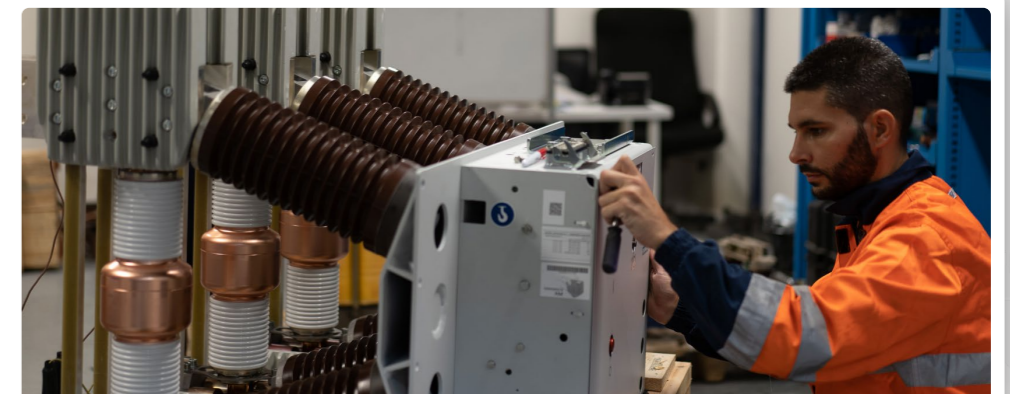
Revamping

GECSA Electrical Engineering can act both in new installations as well as upgrades, "revamping", of operating facilities.



Experience and service

Our knowledge of the sector allows us to work in a flexible way, adapting to the demands and needs of the different industrial processes and realize turnkey projects.




INDUSTRY 4.0

Beyond Alea®, the only digital 4.0 platform that integrates all the processes in the melting and alloying of metals, from the selection of raw materials and equipment to the quality of the final product.




BEYONDALEA
The brain of your foundry


MONITORING

 Monitoring of the production process, and detection and correction of anomalies in real time.


PLANNING

 Scheduling adapted to the flow. Precise control of capacities and operation times.


LOAD OPTIMIZATION

 Lower cost loads considering raw material variability and final alloy specification.


MACHINE LEARNING

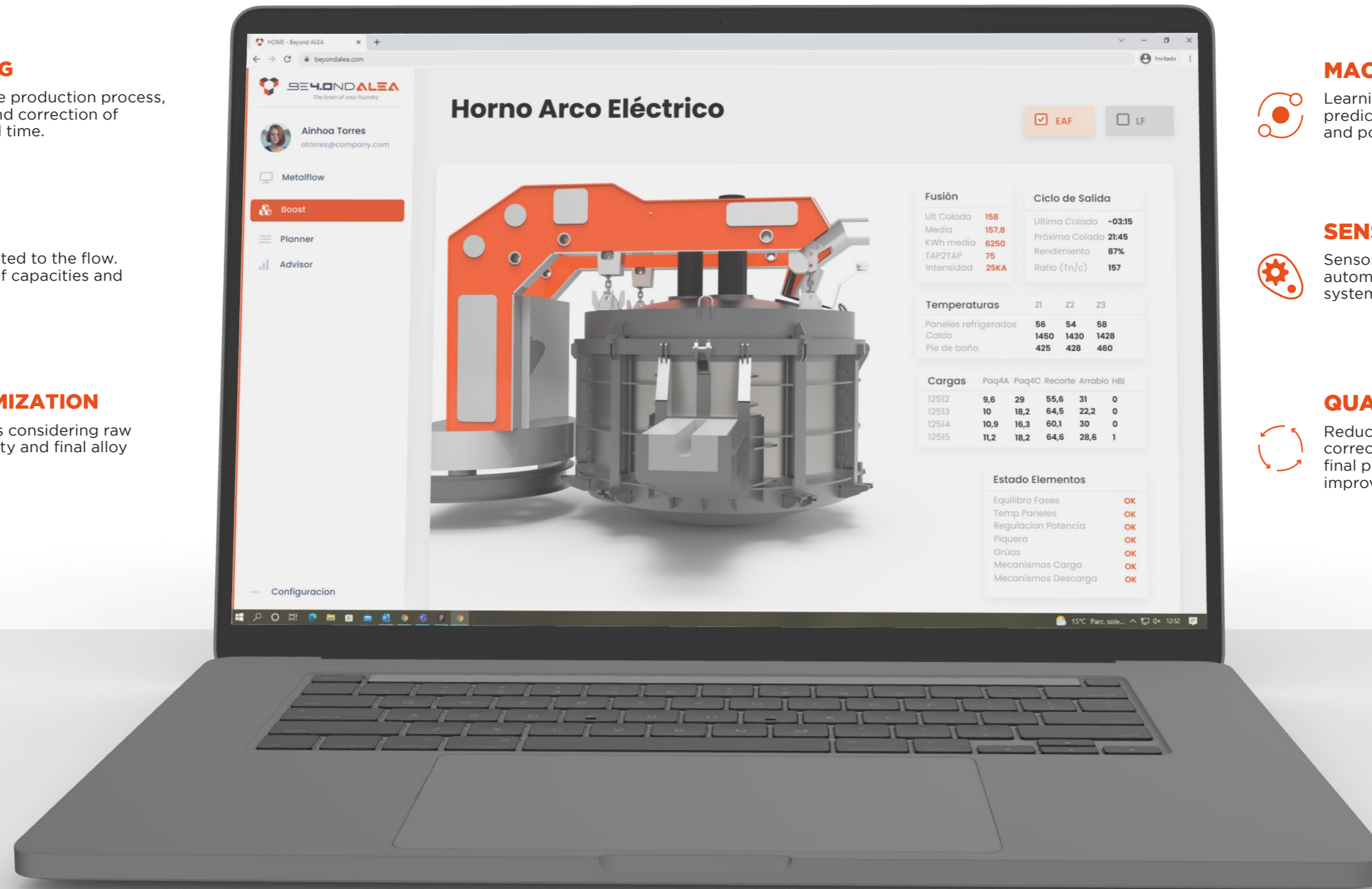
 Learning from production data to predict the behavior of raw materials and power profile.

SENSORIZATION

 Sensors throughout the process that automatically report data to information systems.

QUALITY IMPROVEMENT

 Reduced process defects, real-time corrections, and more consistent final product thanks to continuous improvement of chemical precision.





GECSA Conductors and Special Connections is an industrial engineering with more than 30 years of experience in the design and manufacture of electrical conductors, plant process control and optimization and electrical engineering.

COMPONENTS FOR POWER SYSTEMS



Busbars



Cables



Coils



Flexibles

INDUSTRY 4.0



Monitoring



Load optimization



Machine learning

ELECTRICAL ENGINEERING



Condenser



Electrical studies



Circuit breaker/disconnector

SERVICES



TS 4.0
(Technic support)



Repairs



Start-up

CERTIFICATES



ISO 9000:2015

Applus®

WELDING

SIEMENS

VACUUM CIRCUIT
BREAKER



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