

In all casting processes, cooling is a key factor in ensuring both the quality of the molten product and the protection of the melting furnaces.

Similarly, cooling and its control of the furnaces for subsequent heat treatments is fundamental, since the characteristics and quality of the final product will depend on the controlled temperature and time curves.

The new [Winoa Ibérica](#) plant located in Balmaseda (Bizkaia) and inaugurated in October 2018, is considered the most modern in the world in the production of steel shot for high added value abrasives, in a sustainable and efficient way. In its 30,000 m2 it has four buildings with induction furnaces, heat treatment furnaces, screening stations and logistics area. On this occasion, the company continues to be committed to evaporative cooling as the best technological solution for managing refrigeration in an equally sustainable and efficient manner to ensure top quality production in a flexible manner.

THE CHALLENGE



Ensure the correct cooling of the induction and heat treatment furnaces by means of two circuits: Direct Contact and Non-Contact

THE SOLUTION

Winoa selects an evaporative cooling system based on open circuit and induced draft cooling towers [model CTFP](#) for its proven efficiency, durability and low maintenance and for the [service](#) offered over time by TORRAVAL.

THE RESULT

- Cooling for the direct circuit:

7 cooling towers x CTFP 2436 SPP15 kW

- Cooling for the indirect circuit

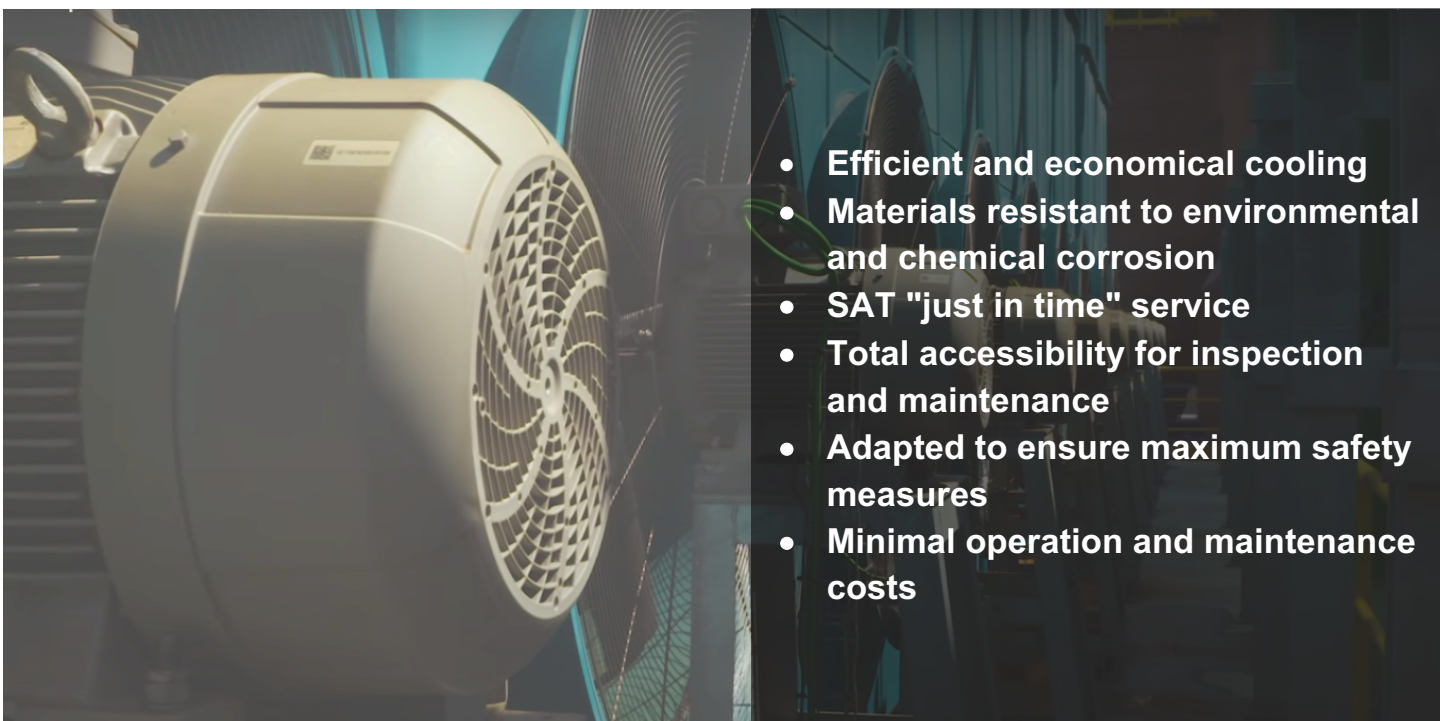
2 cooling towers CTFP 2436 SPP 15 kW

Subsequently, the equipment is adapted to the current regulation by installing safety measures with platforms, handrails and stairs that improve accessibility and guarantee the required safety measures.

The cooling equipment supplied has the following characteristics

- Monobloc structure and open distribution channels in GRP
- Gravity dispersal plates
- Special splash filling.
- Easy access to mechanical components at ground level.
- Water collection pool with slope and rounded corners that facilitate complete emptying and cleaning.

CUSTOMER BENEFITS



- **Efficient and economical cooling**
- **Materials resistant to environmental and chemical corrosion**
- **SAT "just in time" service**
- **Total accessibility for inspection and maintenance**
- **Adapted to ensure maximum safety measures**
- **Minimal operation and maintenance costs**