

OUR GOALS

QUALITY FIRST

Quality is our goal and safety is first

Quality is a word with different meanings but it certainly includes Safety and Customer Satisfaction.

Relative to a CCR rod Line, quality means high efficiency, low maintenance and the final rod product, be it E.C. grade, conductor alloy or mechanical alloy, perfectly matching the international standards.

Thousands of CCR Line components, from furnace refractory materials to furnace burners with their flame control, to the rod quenching system to the double automatic coiler, and all the components in between, have a storied past which spans 60+ years of research, improvements and developments in metallurgy, mechanics and automation.

A new Properzi CCR Aluminium rod plant is tailored for the best Quality with maximum Safety. Each one is definite in production rate and specific

for the required rod in different diameters from pure aluminium to the most sophisticated alloys.

When commissioning a brand new Plant we take advantage of our extensive experience in interacting with our Customers/Users and by combining the following:

- The Properzi Technology from Furnaces to Coiler
- A skilled and well-trained Operating Team
- All know-how and expertise collected during 60+ years
- The Good Manufacturing Practices of modern times

The Goal is achieved!



Example of GMPs book.

To repair the obsolescence of those Systems (Plant + GMP + Team) commissioned years ago, when the requirements for rod were less severe and less demanding, our Excellency Group can provide all the support necessary for an upgrading in production and technology in order to attain the quality standards that are a “must” today with a reasonable and justifiable investment while posing no danger to the Owner’s balance sheet.

However, updated **QUALITY** and increased production and the production of more difficult alloys are requirements and also targets for rod producers with older Lines.



Properzi CCR Al Rod Line after many years in operation.

In general, the backbone of the aluminium rod industry worldwide is comprised of older plants.

Our experts can suggest how to modernize the Line and also transfer the “Total Quality” and “Zero Defects” approach following the methods that the Automotive Industry – the most demanding industry – has identified, implemented and improved upon year after year.

**Several courses are available in our
QUALITY ROAD MAP (QRM),
for example:**

- Programmed maintenance and better total efficiency course
- Housekeeping and production parameters control course
- Highest percentage of premium quality rod course

We are making the European Norm for Safety and Total Quality Policy familiar around the world. They are known as OHASA 18001: 2007 and ISO 9001: 2008 or ISO 14001: 2015, respectively.

**QUALITY IS THE COMBINATION
OF GOOD MACHINERY, GOOD
MANUFACTURING PRACTICES AND A
WELL TRAINED CREW**

Just to give an example, consider the QRM that we implemented together with an important customer located in Asia:

The Properzi E.C. Aluminium Line was commissioned in 1995; output rate was 3 tph. Upgrading and QRM were implemented during 2014 and the **starting conditions** were:

- OEE ≤ 80%
- Only 9.5 mm E.C. grade rod
- Loose coils ≤ 1,500 kg

The line’s production rate was increased by 50% (4.5 tph), a double automatic coiler replaced the basket coiler and the hardware necessary for the production of electrical alloys in T4 condition was installed.

Within two months from the start of upgrading and implementation of the QRM, the following conditions were present:

- OEE ≈ 85%
- E.C. grade rod and 6201 T4 rod, diameters 9.5 – 12 – 15 mm, tight coils of 2,500 kg

...and the Line continues to operate with a consistent economic return.