

## ENVIRONMENTAL CARE



FIMA CARLO FRATTINI for many years has been constantly developing its production processes in order to reduce the use of resources, materials and energy. In 2011 a modern photovoltaic system was installed that allows FIMA Carlo Frattini to have an almost complete independent and self-produced source of energy, and from 2016 the Company has started using an innovative galvanic system with trivalent chromium in order to reduce pollution and to eliminate any possible risk to its customers health.

Furthermore all FIMA Carlo Frattini projects are developed considering all the steps of a product's life, from its manufacturing to the shipment till its dismantlement.



### New Factory

The new FIMA factory, that is also powered by the photovoltaic system installed in FIMA since 2011, has been designed for a more efficient management of the different production stages with a consequent improvement of production capacity and quality control. In the new production building new innovative machineries have been installed and that are able to work on the same time

### New Photovoltaic Plant

At FIMA, a strong focus on production technologies goes hand in hand with important investments for the installation of a first 500 kW photovoltaic plant and a subsequent one, which will allow the Company to convert solar energy into electricity, thus producing its own power in full compliance with the applicable laws - a project which provides tangible evidence of the Company's respect for the environment.





## New Electroplating System

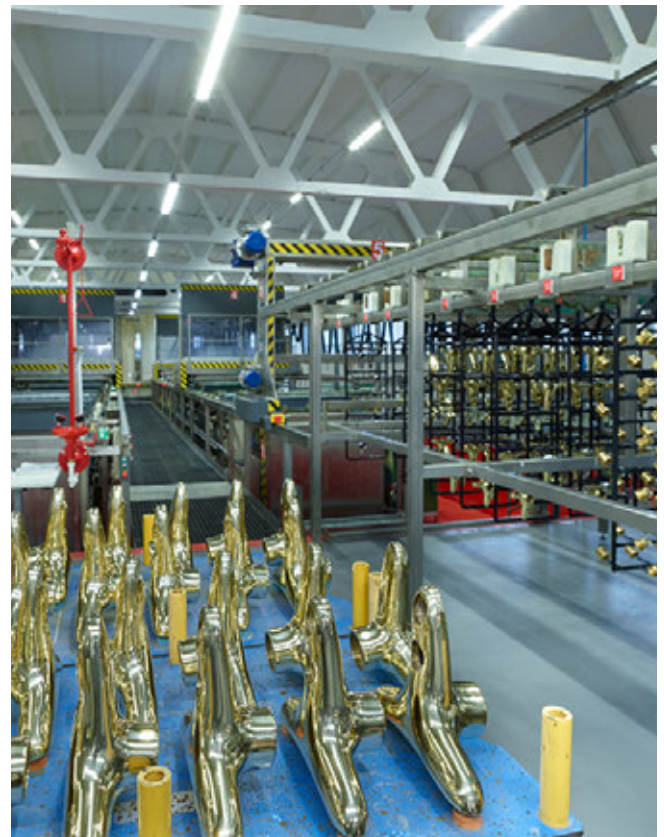
In the new production building in 2016 a new electroplating system with **zero emission** was activated. It uses trivalent chrome which is a non-carcinogenic material that does not produce pollution and reduces the quantity of rejects, instead of hexavalent chrome (used today by 90% of the companies that will be outlawed in the next years by European regulations). The new galvanic system will be powered by a new and very efficient co-generation system that uses natural gas and that will be able to give all the energy and heat required by the electroplating system.

## Using Trivalent Chrome

Hexavalent Chromium, which is currently used in the industry by 90% of cases (according to the EU) is highly toxic from its carcinogenic material.

However, **Trivalent Chromium** uses a solution of basic salts that is significantly less impacting in terms of:

- Use by the operators of the solutions as it is not carcinogenic and / or mutagenic
- Atmospheric emissions, because it does not form chromium aerosol
- Special treatment of waste water from post-deposition washing
- Waste products that are significantly reduced with a consequent lower impact on the environment in terms of sludge that would otherwise have to be thermo destroyed or stored in landfills.





## Materials Used Can Be Recycled

The packaging containers are specifically engineered to optimise production, through reduced material wastage and container dimensions. Besides being made of recycled material, they are also recyclable up to 95%. In essence, the company operates in full compliance with the applicable regulations, for both the Italian and international market.