

RC REITER & CRIPPA

FURNACES TECHNOLOGY

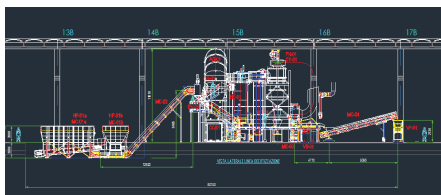
Technology and Innovation for aluminium recyclers

Reiter & Crippa S.r.l. (www.reiter-crippa.com), part of the PE Group, has signed a contract with PROFILGLASS S.p.A of Fano (PU) for the supply of engineering, construction, delivery and commissioning of a complete production line composed by: a **Pyrolytic decoater**, with productivity 7 t/h, a **static Melting furnace**, with capacity 90 t, an **exhaust fume treatment system**. The first part of the engineering has been performed in collaboration with Prof. Eng. Paolo Centola (Polytechnic University of Milan - Chemical Engineering dept).

In the decoater it will be possible to process various types of scraps like UBC (urban waste collection or selected type), extrusion painted profiles, beverage caps and others aluminium scraps with max 5% wt of organic content (According to: Reg. CE 333/2011).

The scrap is heated in a rotary drum where the organic content is removed via convective thermal exchange.

In the drum the gas temperature and the oxygen content are continuously controlled with redundant instrumentation in order to minimize the metal oxidation and consequently the dross formation in the melting furnace.

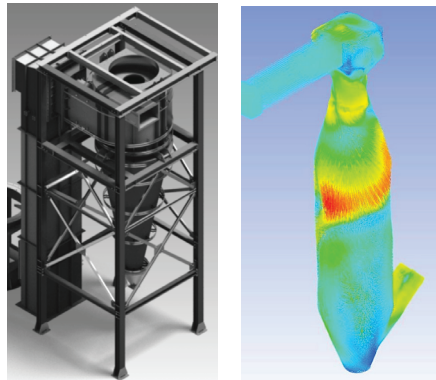


The exhaust gas is processed in two thermal oxidizers (the second thermal oxidizer is strictly necessary to reduce CO and TOC) and in one cyclone followed by a quenching unit to allow the perfect control of the emissions.

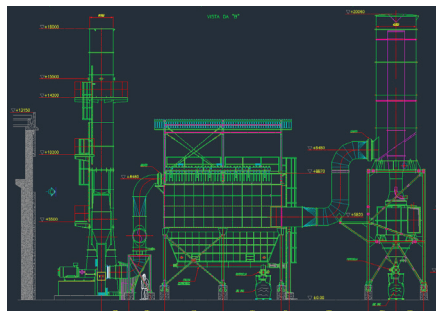
All the machines that make up the decoater are designed with the most advanced thermodynamics simulation tools.

The furnace features a couple of Ultra Low NOX regenerative burners and the melt circulation will be performed by a mechanical pump (J-50 SD PUMP Pyrotek).

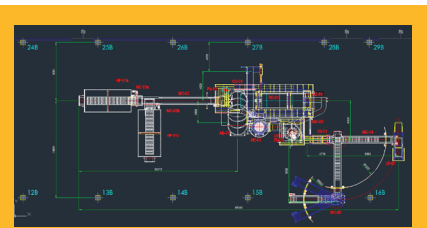
The exhaust fume treatment system is an up to date machinery that allows, together with the decoater and furnace process control, to meet the limits specified by the Best Available Techniques (BAT) Reference Document for the NON-FERROUS Metal Industries (February 2013).



The line will be dedicated to the production of aluminium alloy sows, having the best melting performance in terms of dross formation and fuel consumption.



After entering into production, the line will allow the Customer to improve its flexibility in the management of the scraps to be molten, while keeping the safest standards in terms of health of the workplace and emissions to the environment.



Our system ensures the following emissions (According to the Best Available Techniques, Reference Document for the Non-Ferrous Metal Industries, February 2013):

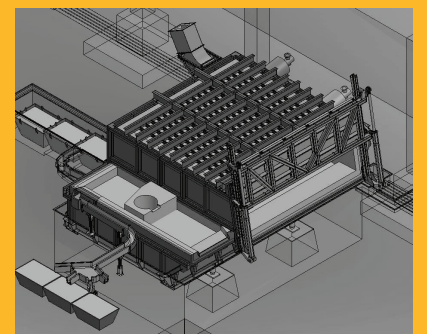
Dusts $\leq 5\text{mg}/\text{Nm}^3$

TOC $\leq 10\text{mg}/\text{Nm}^3$

HCL $\leq 10\text{mg}/\text{Nm}^3$

HF $\leq 2\text{mg}/\text{Nm}^3$

PCDD + PCDF $\leq 0,1\text{ng}/\text{Nm}^3$



ABOUT US

Reiter & Crippa S.r.l. started up in business in the 60's dealing in machines and plants for production of aggregates. Reiter & Crippa S.r.l. started its activity in the aluminium field 6 years ago when it became part of **Prezezzi Extrusion Group**.

The group recently commissioned equipment in the aluminium field with full success, like the holding furnace and billets casting machine at SAPA Tibshelf (England), or the annealing furnace at Framiva Metalli (Italy). Last January 2014 R&C has signed a contract with INDINVEST LT of Cisterna di Latina for the supply of a **Double chamber Static Melting Furnace**, with capacity 70 t.



REITER & CRIPPA is part of
Prezezzi Extrusion Group
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