

AIROX®-Burner has the leading edge!

More efficient aluminium melting

For the secondary aluminium industry Linde has developed a special new burner, which can be used for aluminium melting in rotary and reverberatory furnaces. Traditionally these furnaces are fired with either air or oxy burners. However, continuous use of oxy-firing is not always profitable – especially in the aluminium industry.

For this reason we have developed a combination burner under the trade name “AIROX®-Burner”, which can easily be switched from 100 % air-fire to 100 % oxy-fire. In addition, all other combinations of air and oxygen are possible. The burner’s special design combines a compact construction on the one hand with very good flame characteristics on the other hand.

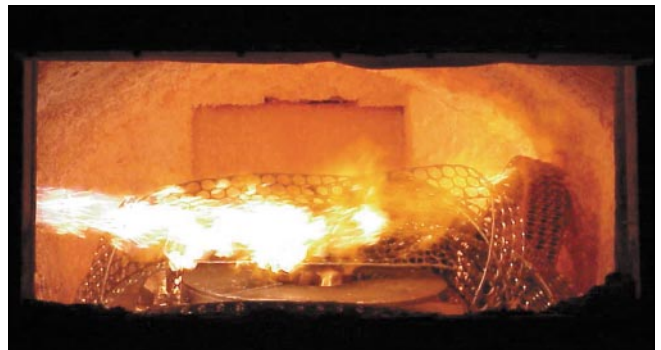
This ideal aluminium melting process allows the use of a wide range of scrap with low output of pollutant emissions and minimal production costs.



Installation

Characteristics:

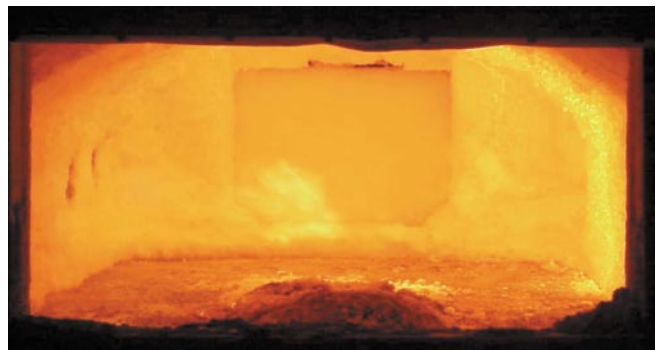
- ▶ Combination burner: ability to run as air- or oxy-fire or with any air/oxygen combination
- ▶ Excellent flame characteristics in oxy- and air-firing
- ▶ Compact construction with electrical ignition; UV-eye included
- ▶ Use of preheated air possible



Oxy-Flame Modus

Benefits of the AIROX®-Process:

- ▶ Production cost savings
- ▶ Increased production rate by 20 – 30 % (depending on furnace type, ...)
- ▶ Highest flexibility in the melting process
- ▶ Wide range of scrap
- ▶ Reduced output of pollutant emissions



Air-Flame Modus