Fact-Sheet

Tilting Type Rotary Furnace (TTRF®)

The System...

Whether you process aluminium dross, UBC, chips or irony scrap, the ALTEK TTRF can increase throughputs, improve metal recovery and lower overall energy consumption. With over 60 installations throughout the world, the ALTEK TTRF is the leading rotary furnace technology available to the aluminium industry. Working in partnership with Mechatherm, ALTEK has created the most advanced and competitive rotary furnace offering customers various patented features to aid and improve operational efficiency. All designs come with a dedicated rotation mechanism and a high efficiency fume extraction system suited to the plant requirement and layout.

The Benefits...

→ Variety of Burner and Fuel Configurations Available
→ Versatile Low Capital Investment of Rotary Melting Technology
→ Advanced Oxy-Fuel Technology
→ Fast and Efficient Melt Rates of All Scrap Types
→ Selection of Standards Sizes or Custom Builds
→ Safe and Operator Friendly
EFFICIENCY...

The ALTEK TTRF combines the high efficiency of the sealed door oxy-fuel burner with the patented control system and furnace design to provide the highest thermal efficiency. This has provided the aluminium industry with the fastest melt rate times of typically 3 hours or less. The proprietary PLC based control system reduces the tap-to-tap times by indicating the optimum point at which the aluminium should be poured. Thermal efficiencies of 75—80% can be achieved and a productivity uptime of 98%.

TILTING vs STATIC DESIGN...

Tilting rotary furnaces have significant advantages over fixed axis rotary furnaces. ALTEK’s TTRF design makes it easier to charge scrap and any flux into the rotary. Tilting furnaces are able to pour out the aluminium at a quicker rate and with more accuracy, and no time is lost opening and closing the tap hole. Finally, time and labour required for slag disposal is reduced with TTRFs as dry slag can be emptied out through a simultaneous tilt and rotate operation at the end of the cycle.

FLEXIBLE...

The ALTEK TTRF is the universal solution for processing many different materials with many configurations including:

- White & Black Drosses
- Used Beverage Cans (UBC)
- Irony Automotive Scrap
- Contaminated Scrap - Dirt, Paint, Plastics
- Chips and Sward
- Engine Blocks