



## **DROSRITE™**

### *Salt-Free, Zero Emissions Rotary Furnaces*

- ✓ *Reduced or eliminated CO<sub>2</sub> emissions  
(Optionally fully electric via plasma torches)*
- ✓ *Reduced operating costs  
(Less energy input required, zero flux salt added)*
- ✓ *Increased metal yields  
(10-20% increase in metal recovery)*



### **WHY CHOOSE PYROGENESIS?**

We are leader in the high-temperature plasma processing of materials and waste. Our clients include primary aluminum producers, major aluminum casting companies, multinational mining companies, metallurgy companies, and the U.S. Navy.

LEARN MORE ABOUT OUR PRODUCTS  
[pyrogenesis.com](http://pyrogenesis.com)

# DROSRITE™ *Proven Technology*

DROSRITE™ is a batch process where hot or cold dross is charged into an argon-filled tilting rotary furnace (1) which quenches any oxidation or thermite reaction. The furnace is rotated to separate (2) the metallic aluminum from the oxides and/or non-metallic phase. 98% of the molten metal is tapped (3) and returned to the holding furnace while a controlled amount of oxygen is introduced into the DROSRITE™ furnace (4). The exothermic reaction between oxygen and the 2% remaining metallic aluminum heats up the DROSRITE™ furnace, preparing it for the charge.



## **DROSRITE™ Features**

- ✓ Flexible to run as a recycling furnace
- ✓ Quick furnace charging
- ✓ Quick residue discharge (Minimal cleaning after discharge)
- ✓ Little to no combustion
- ✓ Variable rotation angle (even during operation)
- ✓ Quick start up and shut-down

### Customization at its Core:

Tailor DROSRITE™ to your unique requirements. This customizable solution adapts to your production needs, ensuring seamless integration into your existing processes.