

HARPER INNOVATIONS SOLVE RED HOT PROBLEMS.

Rotary Calciners / Graphite Designs / Quartz Tubes

Vertical Gas-Solids Reactors: Dense & Dilute Phase / Alloy-Graphite Tube

Complete Hydrogen Reduction Systems / Nuclear & Other Waste Processing

Advanced Graphite Pusher Designs / Novel Mesh Belts & Strip Belts

Carbon Fiber Lines / Graphite Walking Hearth / Graphite Slots

Custom Designed Graphite Reactors / Vertical Screw / Drum Calciners

Ultra High Temperature Gas Preheaters / Elevator Kilns

At Harper, our revolutionary rotary calciner design system called Riffle-Flights™ provides axial mixing for processing at a fixed average composition for continuous or batch applications. Another successful



innovation is our patented Extended Heat-Transfer Area (EHTA™), which has thin-walled tubes that penetrate the material being processed and merge gases in an overall counter current flow for ultra-high energy efficiency.



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