



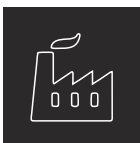
**RETECH**  
A SECO/WARWICK COMPANY

# **METAL POWDER ATOMIZATION SYSTEMS**

Metal Powder Atomization System



# METAL POWDER ATOMIZATION SYSTEM



## INDUSTRIES

Aviation, Automotive, Defense, Energy,  
Medical and Research Centers



## MATERIALS

Titanium, Refractory and Reactive  
Materials, Nickel-Based, Copper, and  
Steel Alloys as well as Precious Metals

Leveraging Retech's experience with Vacuum Induction Melting (VIM), a Retech Hot Wall Atomizer is suited for everything from small, lab-scale batch production to very large, industrial scale installations where high throughput is essential. These systems utilize traditional induction melting combined with close-couple atomization for efficient production of spherical metal powders. Additionally, Retech Hot Wall Atomization systems have the capability to be semi-continuous via reloadable feeders.

## SPECIFICATIONS R-CIGA

- Power output (kW): 50 to 1,300
- Feed Stock: Ingots or Elementals
- Alloying Capability: Yes
- Batch Size (kg): 5 to 2,000
- Size  $D_{50}$ : 30 - 90  $\mu\text{m}$
- Atomization rate: 300 - 1500 kg/hr

## HIGH PERFORMANCE POWDERS

Retech REGA Metal Powder systems combine crucible-less, induction melting of oxygen sensitive metals and alloys with inert gas atomization for the production of a variety of powder specifications. Designed to melt ingots ranging from 50 mm (2") to 85mm (3") in diameter by 1 meter long, a REGA provides the flexibility to melt a range of specialty metals and alloys in order to meet the needs of our customers.



## SPECIFICATIONS REGA

- Power output (kW): 240
- Feed Stock: 50 or 100 mm dia. Bar
- Alloying Capability: No
- Batch Size (kg): 50 to 100
- Size  $D_{50}$ : 50 - 120  $\mu\text{m}$
- Atomization rate: 30 - 90 kg/hr

## PLASMA POWDER

Retech Plasma Powder equipment utilizes our Plasma Arc Melting (PAM) technology in combination with gas atomization to produce powders that meet the needs of our customers. The versatility and capacity of Retech's PGA allow for atomizing any of a wide variety of refractory and reactive alloys, amorphous metal, or superalloys, and do so at production rates that will redefine powder metallurgy industry expectations. In addition, Retech can supply post-atomization powder handling and consolidation equipment.

## SPECIFICATIONS PGA

- Power output (kW): 75 kW - 1200 kW
- Feed Stock: Ingot, compact, scrap, powder, etc.
- Alloying Capability: Yes
- Size  $D_{50}$ : 50 - 120  $\mu\text{m}$
- Atomization rate: 300 - 1500 kg/hr



## About Retech Systems LLC, a SECO/WARWICK Company

Since 1963, Retech Systems LLC has been a global leader in the supply of vacuum metallurgical processing equipment. As an integral part of SECO/WARWICK Group, the most fully integrated furnace manufacturer in the world, we provide customer access to a wide range of in-house resources, including technology, material and process development. Whether a laboratory scale furnace or complete custom design, identifying customer needs, as well as understanding the importance of producing cost-effective technologies is the foundation upon which Retech is built.



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