Coming in 2017 for Demonstration, Process Development & Trial Atomization:

INNOVATIVE AND COST EFFECTIVE METAL ATOMIZATION

Delivering Value with a Competitive Edge

Retech Systems LLC
100 Henry Station Road
Ukiah, CA 95482
USA
Phone: +1 (707) 462-6522
Fax: +1 (707) 462-4103
sales@retechsystemsllc.com
www.retechsystemsllc.com

SECO/WARWICK S.A.
8 Sobieskiego Str.
66-200 Swiebodzin
Poland
Phone: +48 68 38 20 500
Fax: +48 68 38 20 555
info-poland@secowarwick.com
www.secowarwick.com

SECO/WARWICK Retech Thermal Equipment Manufacturing (Tianjin) Co., Ltd.
7B Second Xeda Road
300183 Tianjin
China
Phone: +86 22 23828300
Fax: +86 22 23828305
china@secowarwick.com
www.secowarwick.cn

SECO/WARWICK Allied Pvt. Ltd.
Plot No. A311/6/312,
TTC Industrial Area, MIDC, Mahape,
Navi Mumbai – 400 710, Maharashtra
INDIA
Phone: +91 22 277 87100
info-india@secowarwick.com
www.secowarwick.com
Since 1963, Retech Systems LLC, a SECO/WARWICK company, has been a global leader in the supply of metallurgical processing equipment. Our advanced processes include:

- Titanium & Titanium alloys
- Super alloys
- Rare earth metals

We provide customer access to a wide range of in-house resources, including technology, material and process development. Identifying customer needs, as well as understanding the importance of producing relevant, viable, and cost-effective technologies, is the foundation upon which Retech is built.

### Vacuum Arc Remelting (VAR)
- Electron Beam Melting (EB)
- Plasma Hearth Melting (PAM) & Plasma Arc Welding
- Metal Powder Production Systems

#### Technical Data
- Typical Feedstock Material: 50 or 100 mm dia. bar
- Max. Melt Power Input (kVA): 90 kVA
- In Process Alloying Capability: NO

#### R-CIGA Specifications:
- Powder Data: Ti 6Al 4V (wt. %) and Ti 48-2-2 (at. %)

### Gas Atomization (R-CIGA)

- Centrifugal Atomization (CAP)

- Stainless Steel
- Ni-Based Alloys
- Carbon Steel
- Ti-Aluminide
- Other Reactive Metals & Alloys

For Production of the Following Materials:
- High Throughput
- Other Reactive Alloys
- Rare Earth Materials

#### Technical Data
- Typical Final Product Thickness: .035 mm (35µm)
- Typical Final Product Width: 1 mm
- Typical Pour Rate: 1-2 kg/minute

### Centrifugal Atomization (CAP)
- Upon Request

#### Technical Data
- Powder Data: Ti 6Al 4V (wt. %) and Ti 62-3-2 (wt. %)

### Centrifugal Atomization (CAP) Open Request
- One of the first systems provided by Retech, Centrifugal Atomization of Powder is a capability enabled by a series of major metal melting and casting technologies including the use of a plasma arc. The technology is designed to meet the needs of customers who are looking for high-quality powders.

### Melt Spinning / Strip Casting
- Melt Spinning / Strip Caster Specifications:

### Melt Spinning / Strip Caster
- Reactor Gas
- Process Control System
- Powder Delivery System
- Melt Evolution System

### For Production of the Following Materials:
- Rare Earth Materials
- Other Reactive Alloys

### Technical Data
- Typical Powder Properties
- Typical Powder Delivery System
- Melt Evolution System

### Centrifugal Atomization (CAP)
- Upon Request

### Melt Spinning / Strip Caster
- Centrifugal Atomization (CAP)