



ELECTRON BEAM (EB) MELTING FURNACES

● SECO/WARWICK

● RETECH

● SECO/WARWICK

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EB Cold Hearth Furnaces (EBCH)
Eb Drip Melt Furnaces (EBDM)

SECO/WARWICK Group is a leading manufacturer of industrial heat processing equipment, specializing in state-of-the-art, custom built or standard vacuum furnaces and controlled atmosphere furnaces. The globally integrated organization includes SECO/WARWICK S.A. Poland - headquarters, SECO/WARWICK Corp. in the USA, SECO/WARWICK China and SECO/WARWICK Allied India. SECO/WARWICK has a track record of more than 1000 installations in over 48 countries worldwide.

Retech Systems LLC is the world's leading manufacture of Electron Beam Melting Systems. Retech Electron Beam Furnaces range from single gun furnaces to up to eight gun, several megawatt, and high volume production furnaces. Retech furnaces offer a broad range of feed options (such as rotary feeder for loose chips, sheet clippings, compacts, turnings, etc), hearth and crucible/ingot sizes, single or dual ingot withdrawal chambers, isolation valves and indexing carts. Computerized beam guidance and motion profiling enables optimum control of the melt pool and temperature, as well as other critical process variables. Retech Electron Beam melting systems are designed to produce high-quality ingots.

In the beginning of 2007 SECO/WARWICK S.A. and Retech Systems LLC signed cooperation agreement for Sale, Engineering, Manufacture and Service of Retech's products in Europe. This strategic alliance benefits our customers by: metric standards, European parts, CE for European Directives, local sale and after sale service support.

Besides being the world's leading supplier of Electron Beam Melting Furnaces, founded in 1963, Retech is also the most integrated manufacturer of a broad range of vacuum and controlled atmosphere furnaces. Today our equipment is located in 16 countries. Advanced process technologies for melting, refining and casting reactive and refractory metals, such as titanium, niobium, zirconium, tantalum and super alloys, include: Electron Beam Cold Hearth Melting, Electron Beam Direct Melting, Electron Beam Welding, Plasma Cold Hearth Melting, Consumable Casting, Cold Wall Induction, Vacuum Arc Remelt, Plasma Consolidation, Plasma Welding, Rototrode® (non consumable casting), powder systems, laboratory systems and custom engineered systems.

Our Electron Beam Melting Systems utilize Electron Beam Guns, Power Supplies and Gun Guidance Systems developed and manufactured by VON ARDENNE, the world's leader in Electron Beam Technology. High-powered electron beam guns from the House of VON ARDENNE have been well known to the specialists in all allied fields for more than 30 years. Together with the appropriate supply and control units, these high-tech products are consistently improved in a continuous dialogue between user and manufacturer. They provide a highly developed product that meets the needs of the international special metals industry.

Retech's partnership with SECO/WARWICK in Poland enhances its worldwide vacuum processing equipment sales, marketing, engineering, manufacturing and service capabilities. Particularly important to the EU market is SECO/WARWICK's assured abilities to provide metric designs, seamless adherence to EU standards and directives, and local service and support.

- Includes Von Ardenne Electron Beam Guns
- Wide size range; typical 60 mm to 900 mm diameter ingots as well as jumbo slabs production
- Multi – gun power from 80 kW to 5000 kW
- Systems of single or multiple gun design
- Winbeam® computerized beam controller offers user – friendly furnace automation
- Accepts a variety of feed material configurations, such as scrap, sponge and bars (large diameter, square, rectangular or irregular shaped)
- Offers significant cost savings by eliminating electrode welding and the consumable arc processing
- Electron Beam cold hearth melting proven to eliminate high density and low density inclusions in titanium alloys

Advanced Melt Process Control

We provide the most advanced process control and data acquisition technology to repeatedly produce high quality products, featuring:

- PLC Based Control System
- Operator Interface Station
- Data Acquisition
- Remote Ethernet/modem interface

