

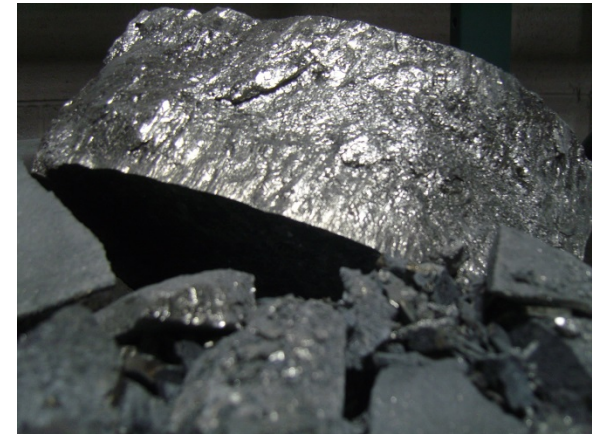
# Capabilities

Metal Alloy and Rare Earth Alloy Manufacture  
Inert Atmosphere Grinding  
Atomizing  
Vacuum Induction Melting  
Vacuum Annealing  
Hydriding

Eutectix

# Metal Alloys

- Ingots and Powder
- Hydrogen Storage
- Magnets
- Batteries
- Additive Materials
- CoAlTi, AlSc,  
NiCa, NiMH, AB5



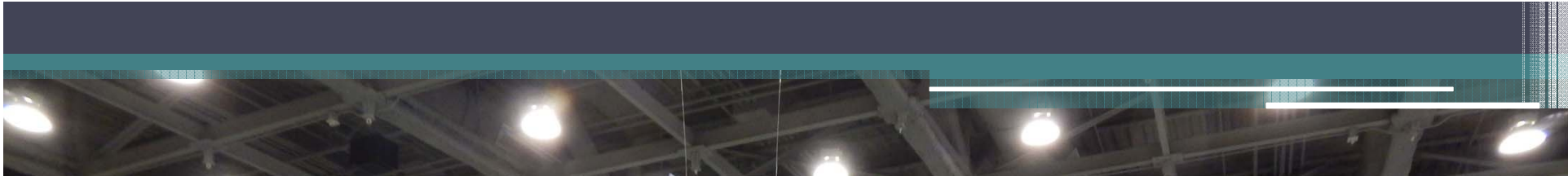


# History

- 2014 Eutectix acquired GWTI
- 2012 BASF acquires OBC
- 2009 SB LiMotive acquires Cobasys
- 2007 GWMG acquired Ovonic Materials facilities from ECD
- 2004 Cobasys forms
- 2000 Chevron - Texaco buys GM interest in GM Ovonic forms JV with ECD Ovonic called Texaco Ovonic Battery Systems & adds TO Hydrogen Systems and TO Fuel Cell Company
- 1999 Baotou Steel RE Hi-Tech forms JV to manufacture NiMH
- 1998 Sanyo buys 3% stake in GM Ovonic
- 1996 Ni(OH)<sub>2</sub> manufacture begins - Honda buys 2% stake
- 1994 GM Ovonic JV for EV1
- 1985 ECD purchases ANR share of OBC
- 1982 ECD and ANR form OBC as JV
- 1978 ARCO funds R&D in hydrogen storage & PV

Eutectix





# Facilities

- Two 12,000 square foot buildings
- 1864 and 1826 Northwood Drive



# Major Equipment

- Two PVT vacuum induction melting chambers (1,000 lb. capacity, 40 microns; semi-continuous melting)



# Major Equipment

- Three AVS vacuum hydriders (4,500 lb. capacity, up to 550 C and 25 PSI)





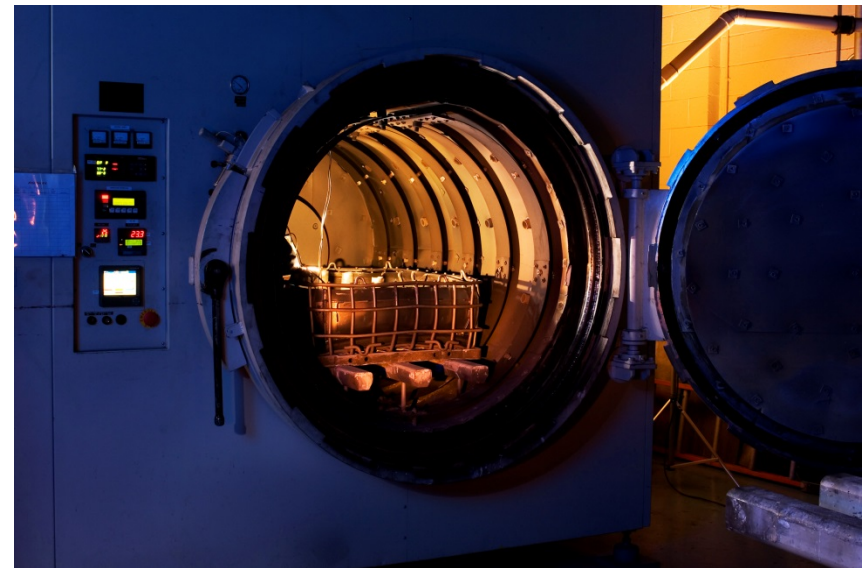
# Major Equipment

- Two inert atmosphere Vortex grind systems 1M lb./yr. capacity (Ar, N; 0.5% O<sub>2</sub> limit, 650 lb. capacity to -400 mesh using high speed rotor with impact blocks)
- Two explosion-proofed grind rooms w/ dedicated bag-house. Annual output combined ~1M lbs. moderately friable w/ a density 7 - 8 g/cm<sup>3</sup> ).



# Major Equipment

- Heat Source Vacuum annealer (2400 lb. capacity, carbon heating elements, 1225 C upper limit; working pressure to 10 (-6) micron)





# Major Equipment

- NEVA Vacuum Atomizer w/ 3 Kg VIM capacity; 1700 C capability
- AVS VIM melting chamber (500 lb. capacity) w/:
- Schutte Buffalo Hammermill System (200 lb. capacity, 2000 RPM w/ oxygen monitoring system)
- housed inside dedicated explosion-proofed room



# Major Equipment

- Stokes VIM chamber with 3 Kg capacity, MG power supply, 15 Kw
- Lab-sized Hydriker system with 20-PSI pressure max., 10 Kg and 20 Kg reaction vessels, 400 C max temperature
- Heat Source Hydrogen Annealer with 2 Kg capacity





# Stay in Touch

## Plant

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**Eutectix**

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