CDC Equipment



400-Ton Automated Press



1000-Ton Manual Press

Quality Controlled Production



Thermal Processing/ **Materials Testing**



Materials

CDC creates superior, high-density parts for applications in defense, energy, aerospace, automotive and other commercial markets.

Examples of materials compacted using the CDC process:

- Rhenium
- Molybdenum/Rhenium
- Tungsten/Rhenium
- **Tungsten Alloys**
- Molybdenum
- **Niobium**
- Copper
- Ceramics-SiC, Boron Carbide, Tantalum
- Carbide
- **Stainless Steels**
- **Low Alloy Steels**
- **Ancorsteel 85HP**
- FLN2-4405 Steel
- **Copper/Stainless Materials**
- **Soft and Permanent Magnet Materials**
- **Lightweight Alloys**
- **Metal and Ceramic Composites**
- Superalloys

Dielectric Ceramics



Armor Ceramics



Single Material and Layered Materials

Neo Mágnets

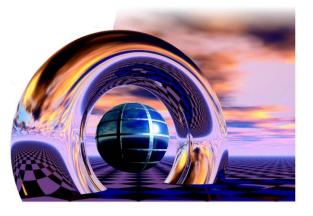








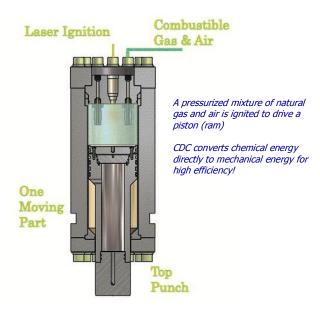
Driven Compaction (CDC)

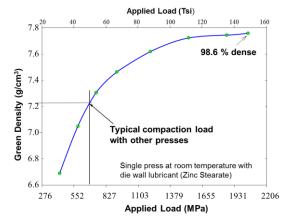


ISO 9001:2008 Certified

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What is Combustion Driven Compaction (CDC)?





Green density vs. load (F-0000 powder compaction)

True Press and Sinter!

Smooth Stroke

No Shock

High Density Green Parts

Little or No Shrinkage

Small Press Footprint

Powder metal part density increases with load (NO lubricant in powder)

Process Benefits

CDC's higher pressure compaction allows us to create specialty, high performance, parts with better results than the conventional press!

Here are just a few of the advantages of CDC:

- Higher Green and Sintered Part Densities
- Reduced Part Shrinkages
- Improved Material Properties
- Improved Density on a Variety of Powder Sizes and Compositions
- Specialty Parts Based on Customer Needs
- Layered Materials
- Reduced Post-Processing = Lower Cost!