

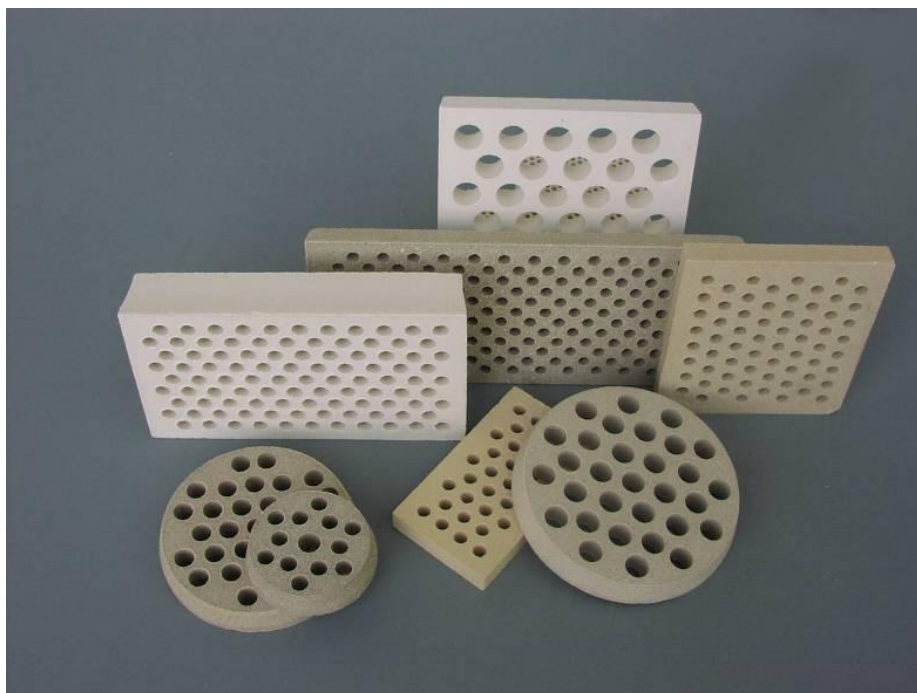
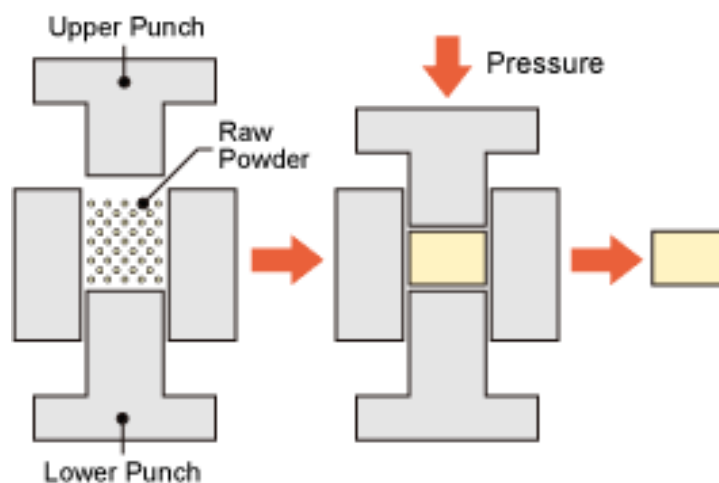


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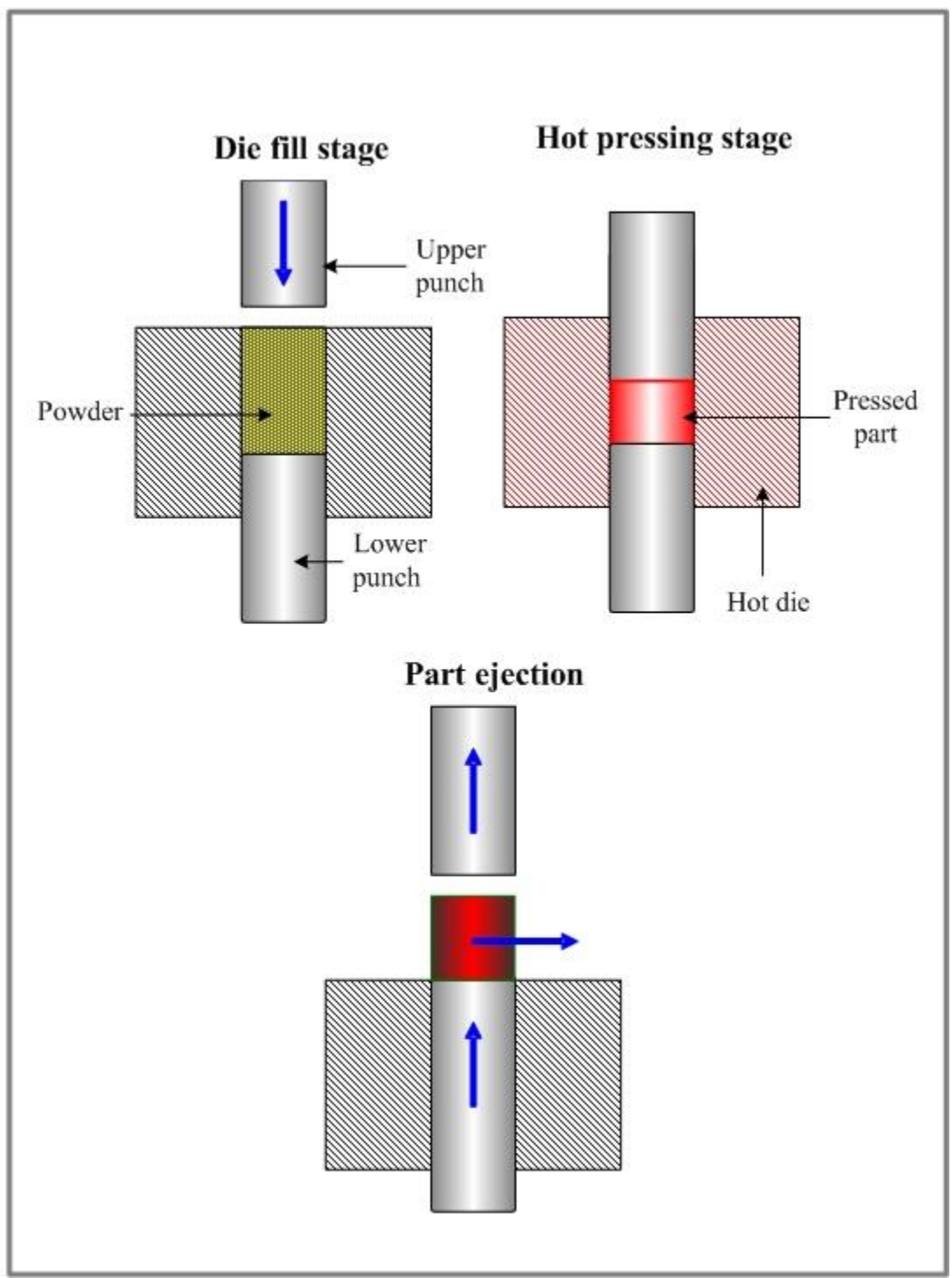
## MANUFACTURING OF TECHNICAL CERAMICS:

### Die Pressing

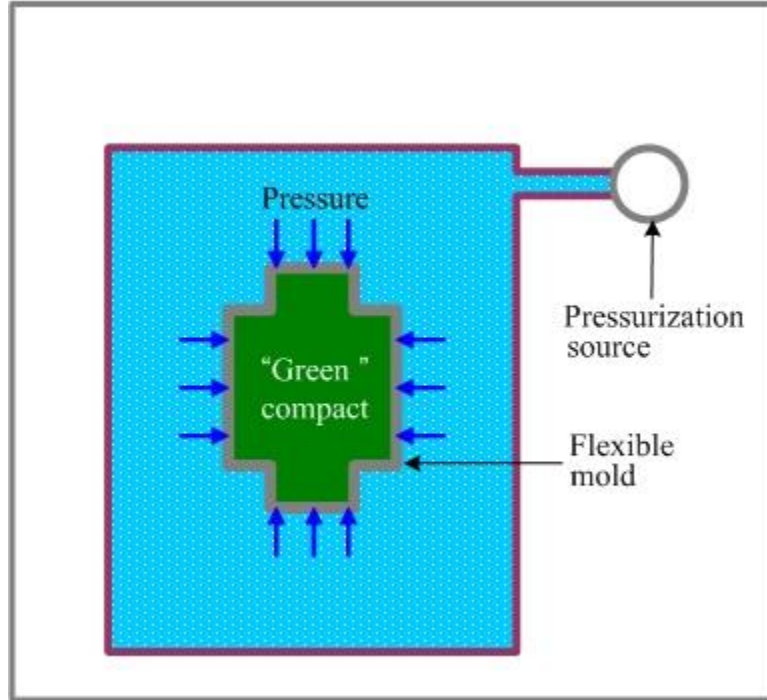


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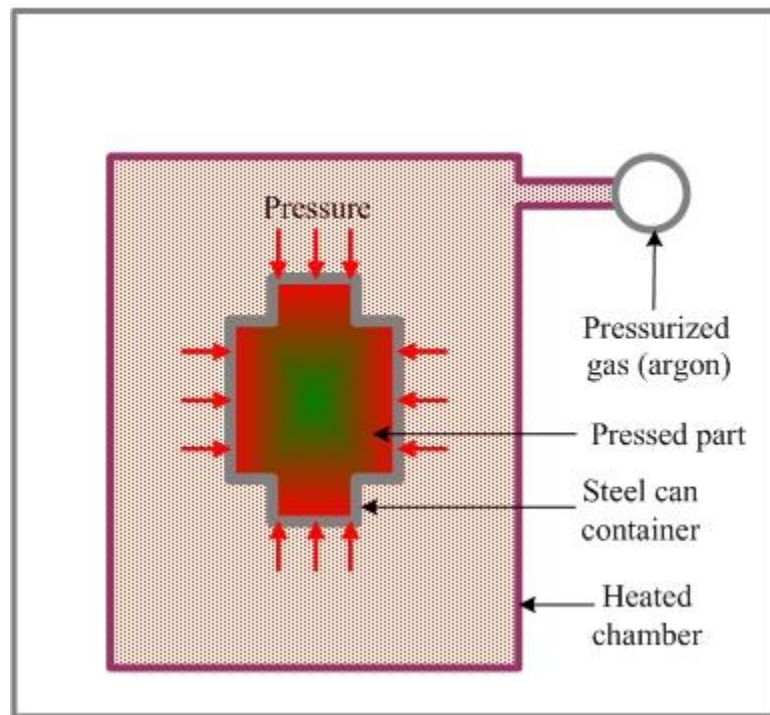
### Hot Pressing



### Cold Isostatic Pressing



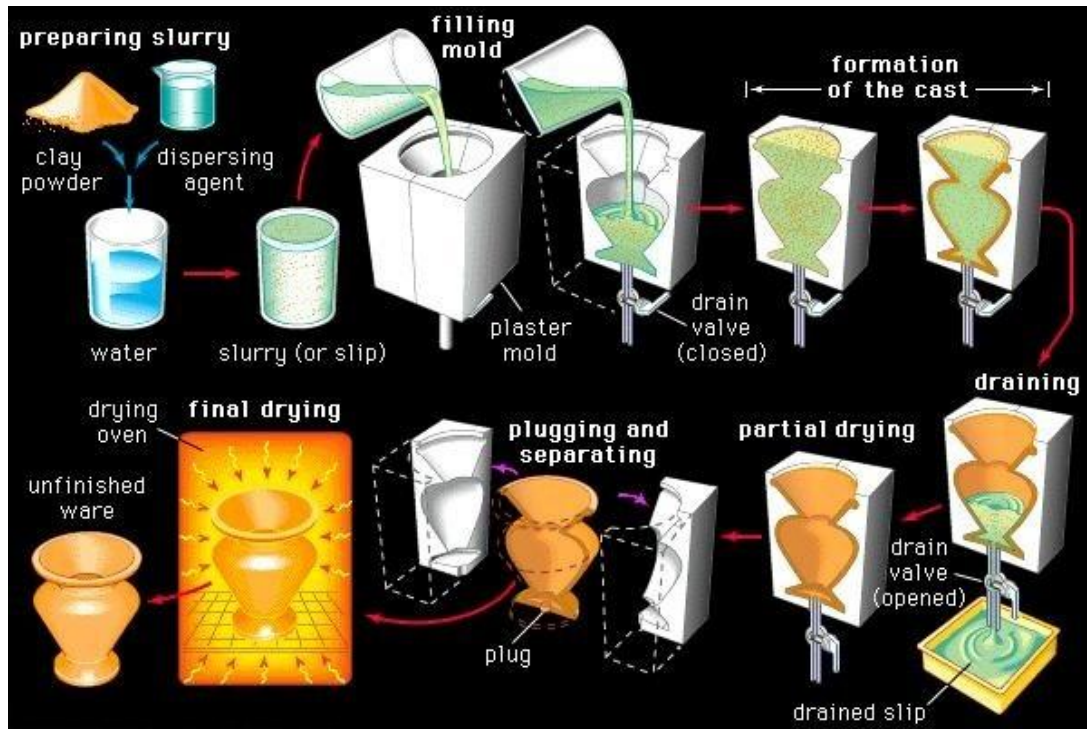
### Hot Isostatic Pressing



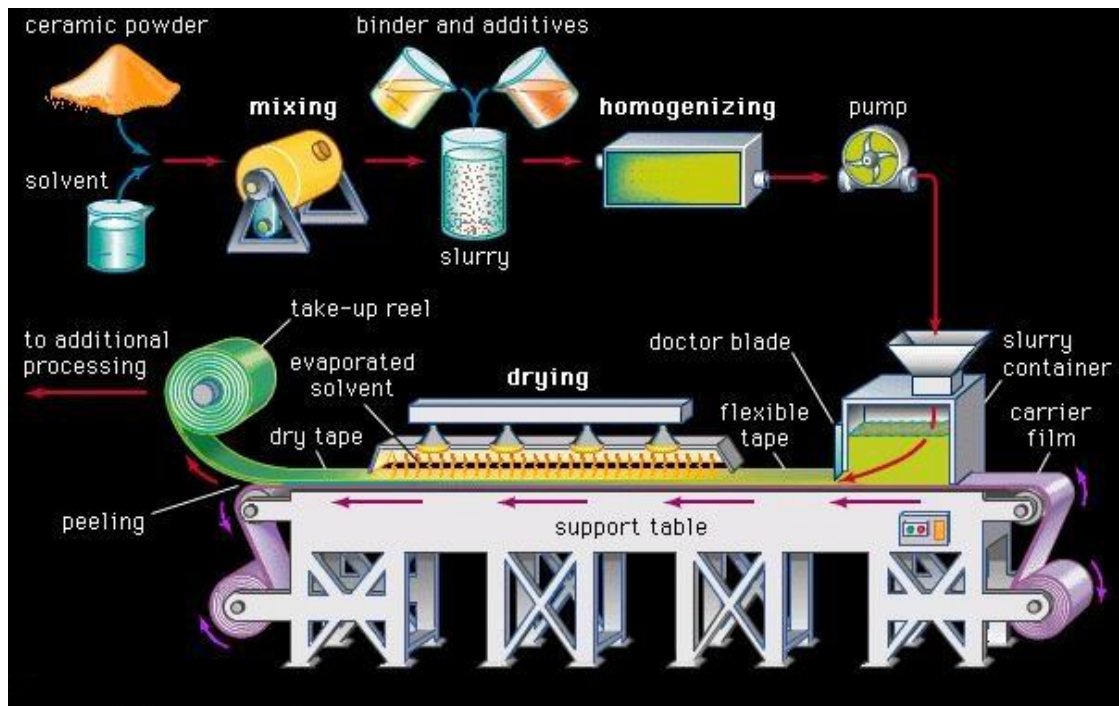


Production of 15-millimeter-diameter samples of transparent ceramic yttrium– aluminum–garnet. A sample exhibits excellent optical qualities after hot isostatic pressing (right).

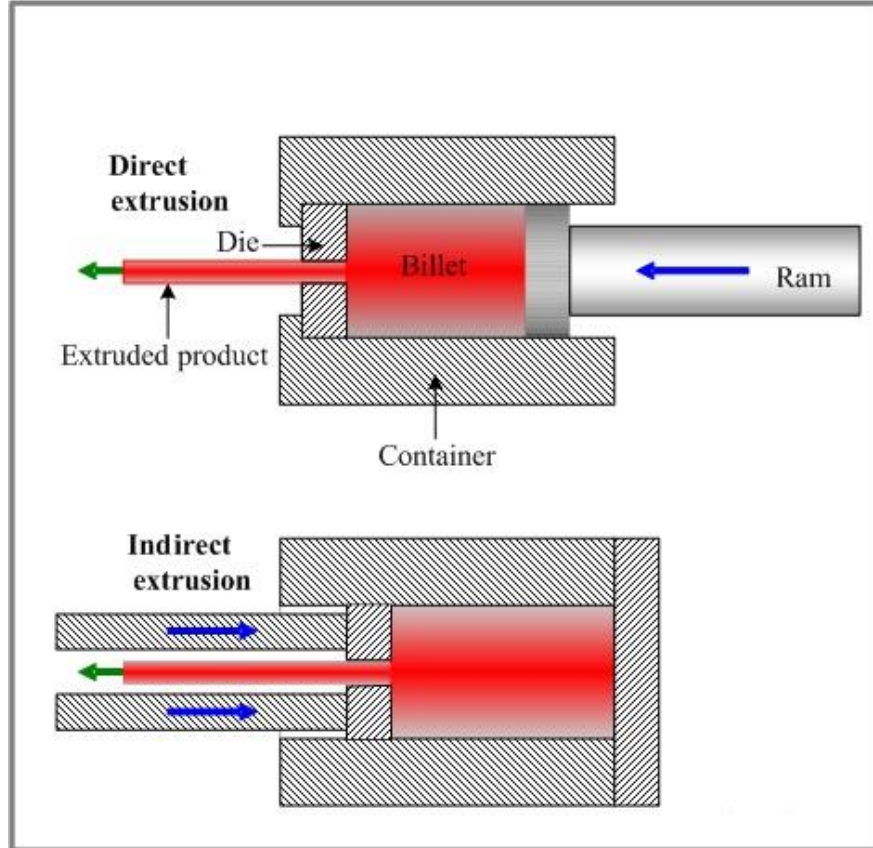
## Slip Casting Process



## Tape Casting of Ceramic



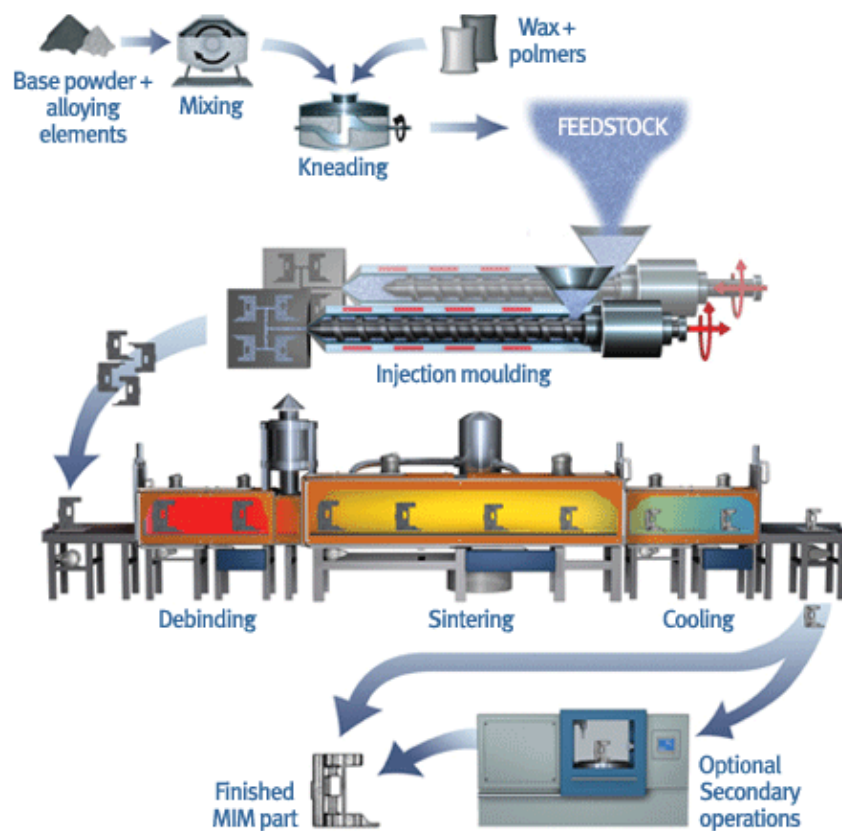
## Hot Powder Extrusion Fabrication







## Low Pressure Injection Molding

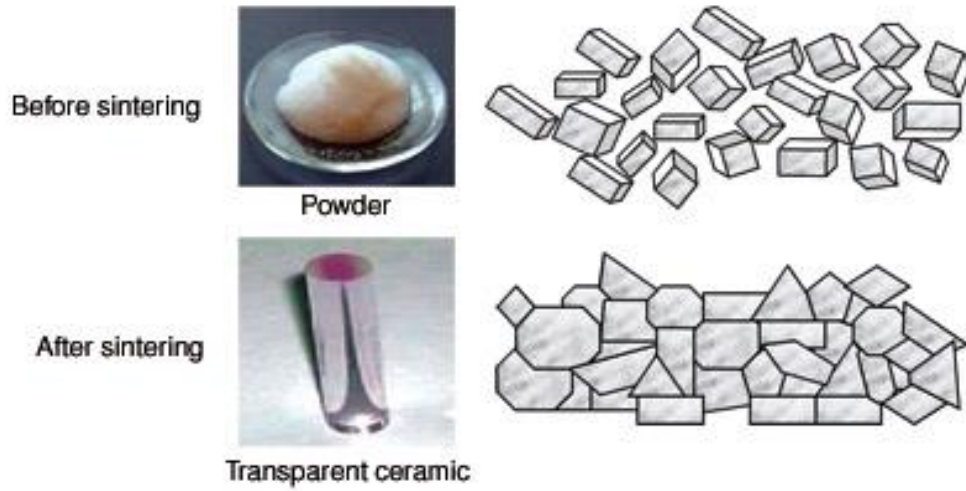


## Green Machining Operations for Ceramic Parts

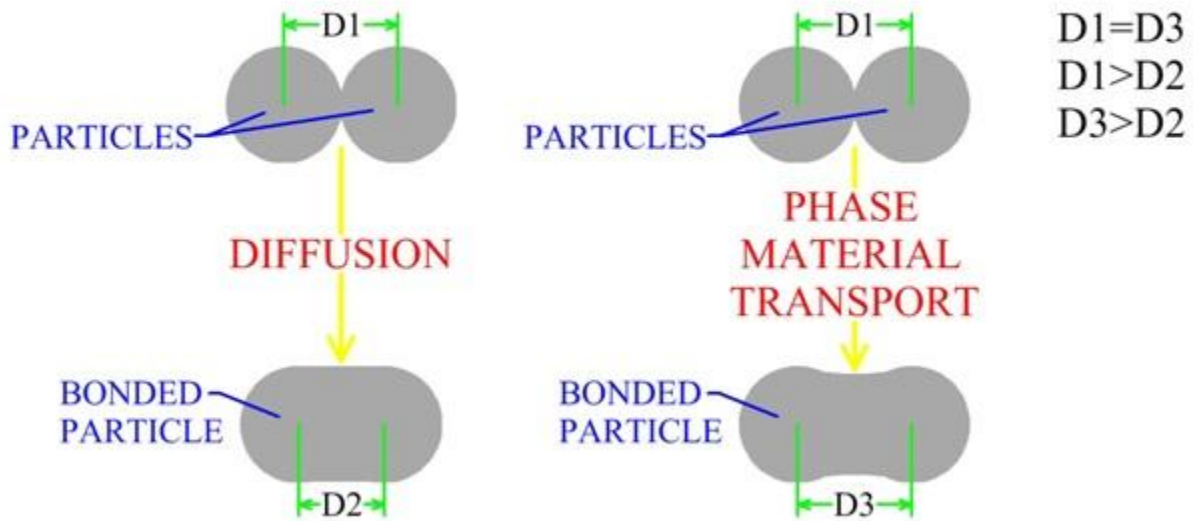




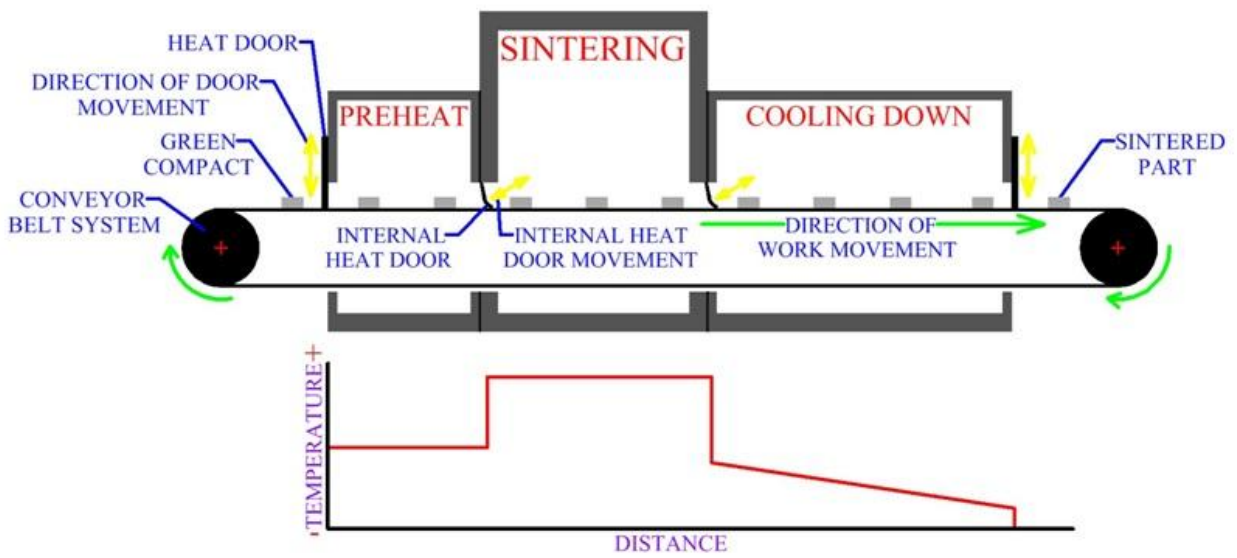
## Sintering and Firing Process



## Bonding Mechanisms in Powder Sintering



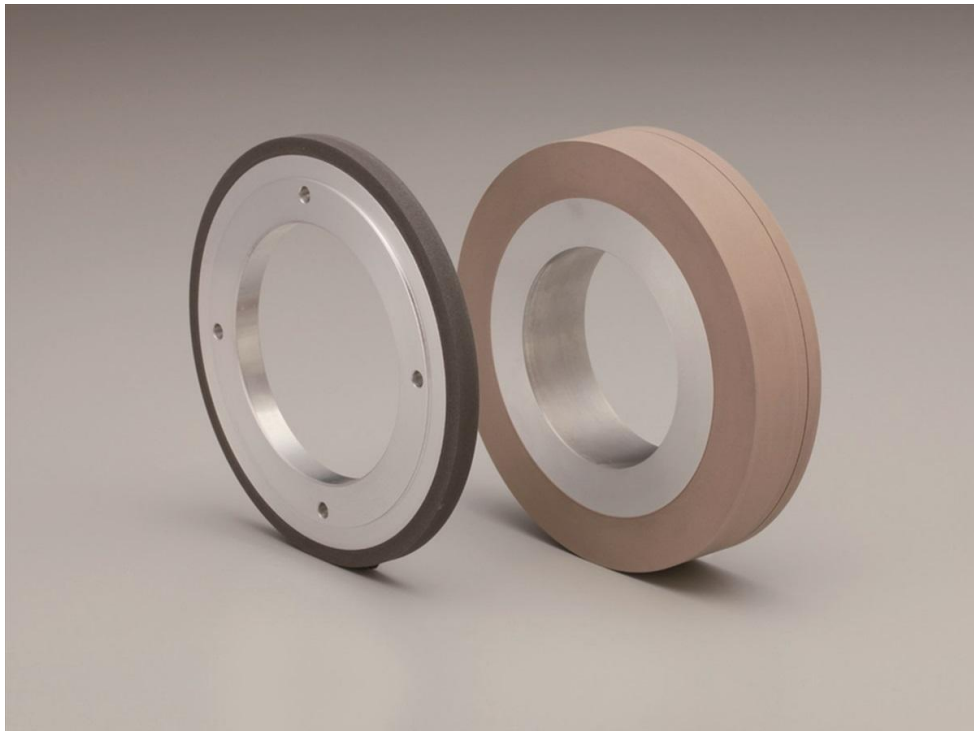
## Continuous Sintering Furnace



## Firing of Ceramics



## Diamond Grinding of Ceramic



Above are examples of diamond grinding tools

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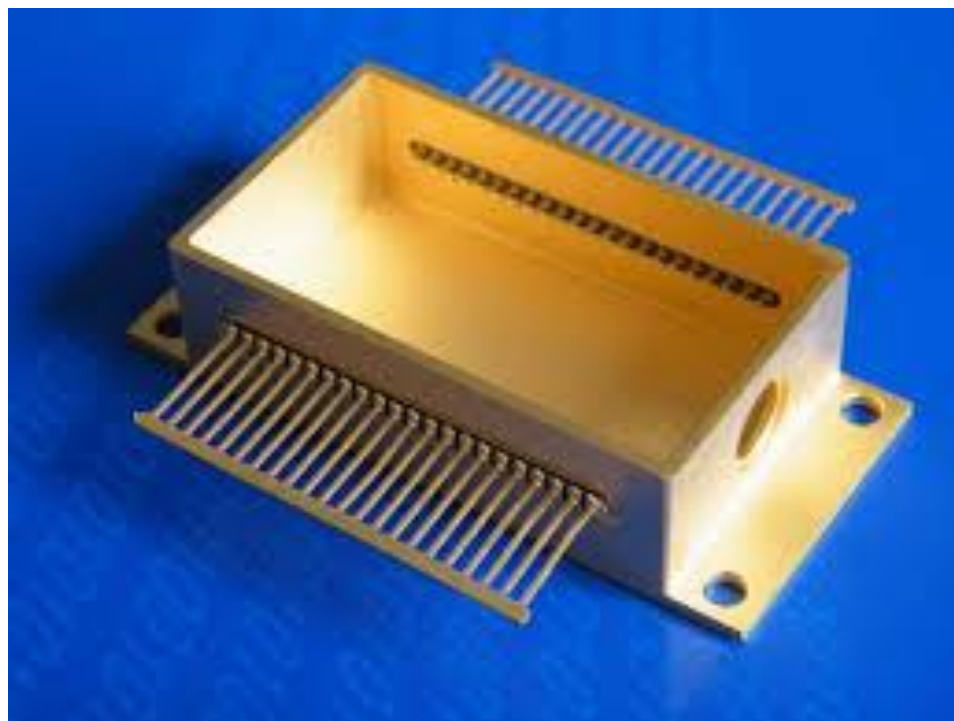
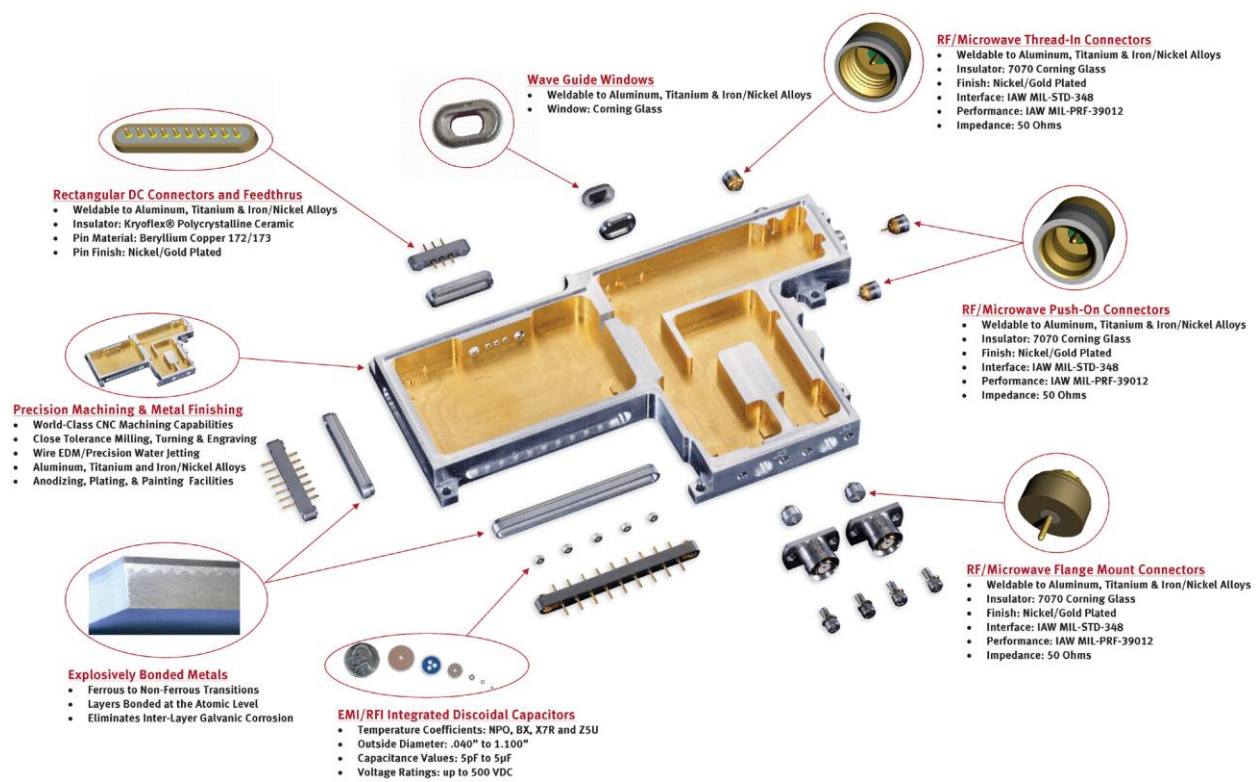
### **Ceramic Components Used in Hermetic Assemblies**

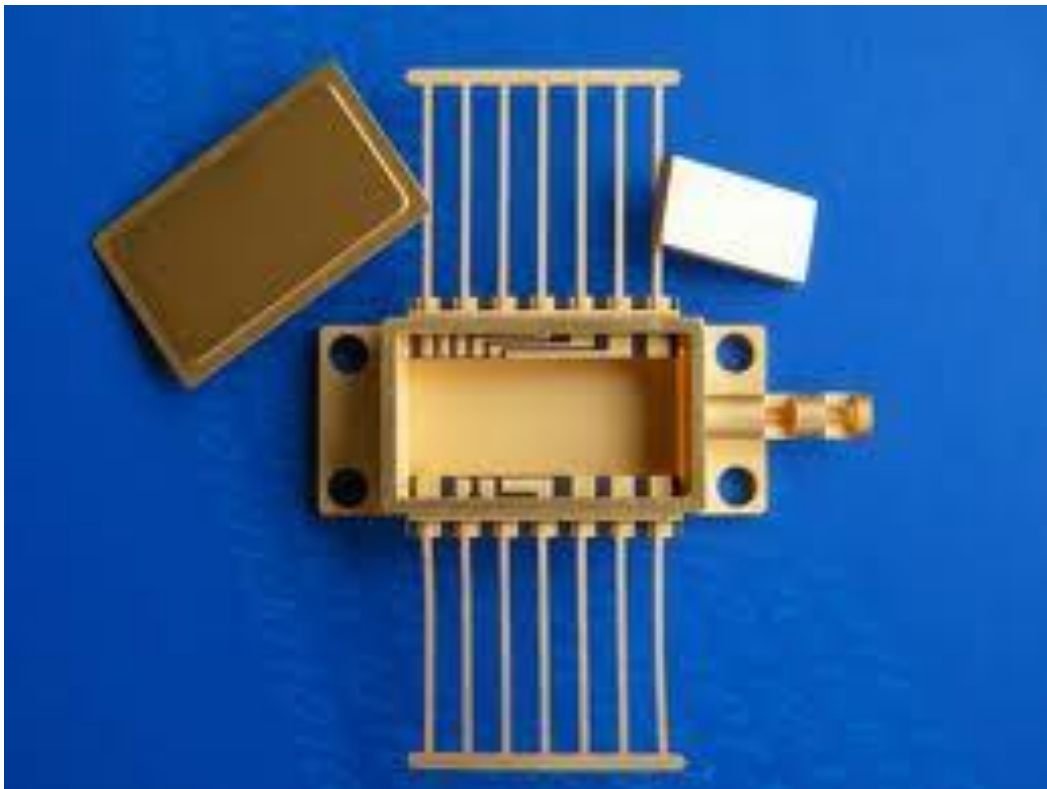


Light bulbs are probably one of the first and earliest hermetically sealed products that incorporate glass, ceramic and metal in their manufacture

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Notice the white ceramic material at the interface between the electrical feedthroughs and the package