



**SOLCERA**  
Advanced Materials

**La France au CERN – November 18 & 19, 2020**



# Two production facilities in France

## Ceramic Solutions

### Evreux Normandy (Headquarters)

- Unique materials platform and ceramic technology in France
- 115 employees
- Plant surface: 9 000 m<sup>2</sup>



## Assembly Solutions

### Moissy-Cramayel, South East Paris

- Ceramic-to-metal and glass-to-metals assemblies, flash lamps, ceramic precision grinding
- 30 employees
- Plant surface: 2 000 m<sup>2</sup>

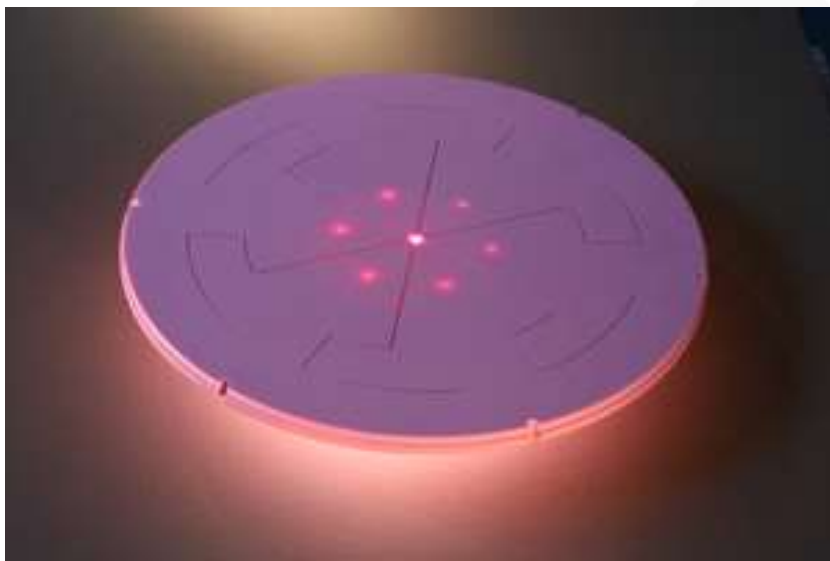
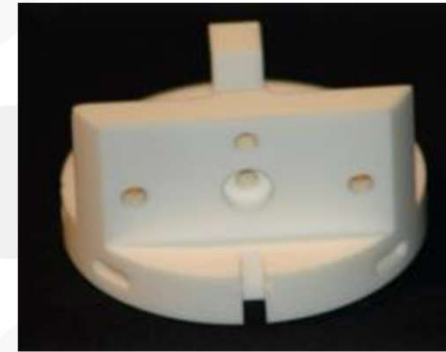


Applications : advanced research, medical equipment, defense , aerospace, nuclear

**ISO 45001 ; 14001 v2015; certified  
Restricted access classification**

# Ceramic precision machining from very small to big sizes

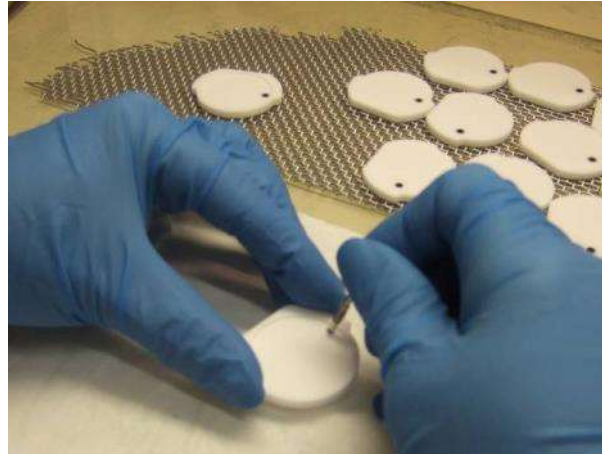
High purity materials  
→ Alumina oxide up to 99,9%



# Metallisation and brazing



**Outside diameter painting**



**Small hole painting**



**PVD**

**Parts are assembled and brazed under hydrogen or vacuum**





# Parts for particule accelerators



**50 Ohms  
feedthroughs**



**Complete BPM part**

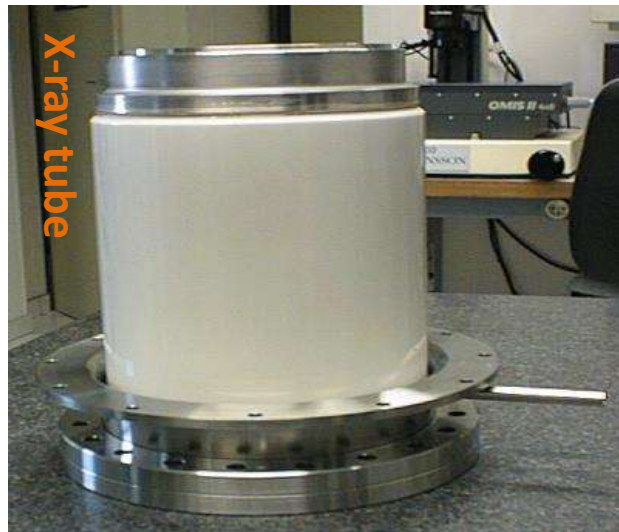


**Cover flanges 48 pins**

# Other parts examples



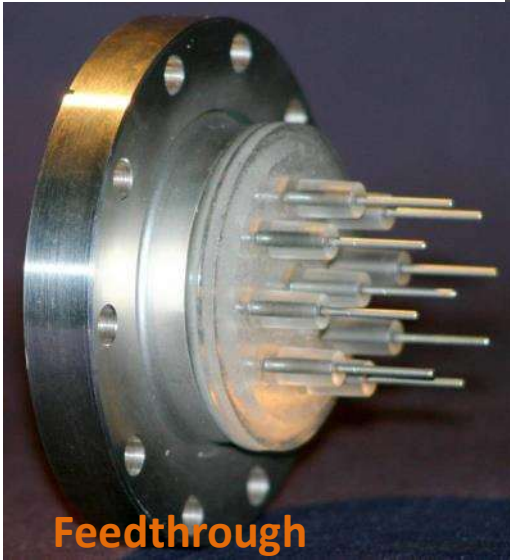
**Sensors**



**High voltage feedthrough for scientific instruments**



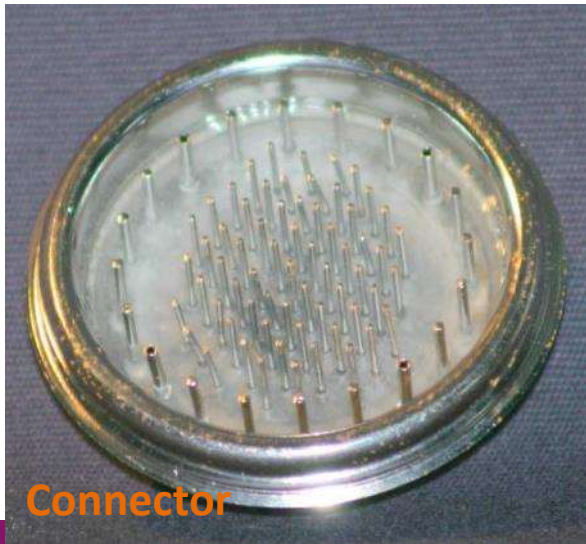
# Glass-to-metal assemblies



**Feedthrough**



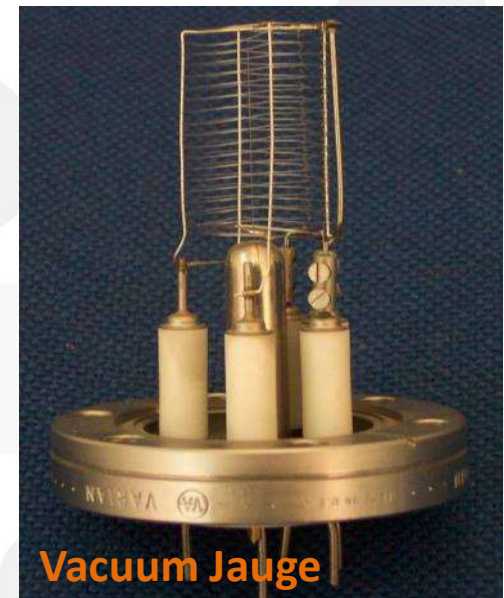
**Brazed viewport quartz or sapphire**



**Connector**



**Pyrex – Stainless steel**



**Vacuum Gauge**

**Thank you and join me in  
a meeting !**