

# 等静压机 Isostatic Press

等静压机是可以对要成型的产品在各个方向均匀地施加压力的装备。可使陶瓷和金属粉末一次成型，放入弹性模具内再利用压力容器内部的流体形成高压，使容器内物体均匀受压，形成同等密度。在要求高强度的航空业，电力和放射产品中有广泛的应用，现在随着技术的发展，也应用在生活中用品和半导体产品方面。

## IP(Isostatic Pressing) 原理

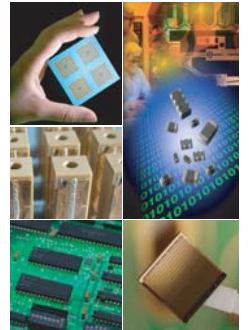


## 特征




- 压力的均匀分布
- 精密的收缩控制
- 产品均匀的热传达
- 操作中不需要产品的回转
- 不需要产品的 Edge Trimming
- 未发生产品的 Edge Rounding 现象
- 未发生产品的 Camber现象

## 适用领域

- Hybrid Chips
- MLCC(Multi-layer Ceramic Capacitors)
- Multilayer PZT(Piezo Actuators)
- Bluetooth Components
- Fuel Cells
- Medical Electronics & Implants
- LTCCs(Low Temperature Confired Ceramics)
- Varistors
- Other Laminated Electronic Components
- Food High Pressure Processing



## Specification

Type		CIPS	CIPL	CIPP
Products				
Vessel Size	Internal Dia.	φ 50 ~ 80 mm	φ 100 ~ 150 mm	φ 150 ~ 200 mm
	Internal length	150 ~ 260 mm	260 ~ 570 mm	400 ~ 1600 mm
Max. Pressure		700 Mpa	700 Mpa	700 Mpa
Material		- Alloy Steel/ Stainless Steel	- Alloy Steel/ Stainless Steel	- Alloy Steel/ Stainless Steel
Closure Type		- Pneumatic Actuated Pin Closure Type or Manual Type - Up & Down Lift - Top Cover Sealing : O-ring & Metal Backup	- Pneumatic Actuated Pin Closure Type or Quick Close & Yoke Flame - Up & Down Lift - Top Cover Sealing : O-ring & Metal Backup	- Pneumatic Actuated Pin Closure Type or Quick Close & Yoke Flame - Up & Down Lift - Top Cover Sealing : O-ring & Metal Backup
High Pressure Pump		- 1 Step Air Driven Liquid Pump	- 1 Step Air Driven Liquid Pump	- 2 Step Air Driven Liquid Pump · 1st Low Pressure Pump (Air Driven Type) · 2nd High Pressure Pump (Air Driven Type or Hydraulic Intensifire Type)
Control		- Touch Screen & PLC - Valve Control : Air Operating & Auto Air Vent & Manual - Set Control : Pressure, Time, Alarm	- Touch Screen & PLC - Valve Control : Air Operating & Auto Air Vent & Manual - Set Control : Pressure, Time, Alarm	- Touch Screen & PLC - Valve Control : Air Operating & Auto Air Vent & Manual - Set Control : Pressure, Time, Alarm

\* 基本式样以外的，也可和营业部负责人商议进行订制。

## Classification by Process

Type	Pressure	Temperature
CIP (Cold Isostatic Press)	~ 60,000 psi	~ 30 °C
HIP (Hot Isostatic Press)	~ 30,000 psi	~ 2000 °C
WIP (Warm Isostatic Press)	~ 30,000 psi	~ 120 °C
HPP (Food High Pressure Processing)	~ 100,000 psi	Room Temperature

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