

# Isostatic Press (IP)

Ilshin Autoclave Co.,Ltd designs and produces Isostatic Press (IP), fulfilling requirements for any size and pressure requirement you may have. With long range of Pressure vessel diameters and working in line with customer's various demand, we provide the precise pressure vessel design, giving the most economical solution to your cold isostatic pressing needs. Our IP is designed and manufactured based on the ASME(American Society of Mechanical Engineers) pressure vessel code which is widely used for various industry areas. Please contact us for more details.

## IP(Isostatic Pressing) Works

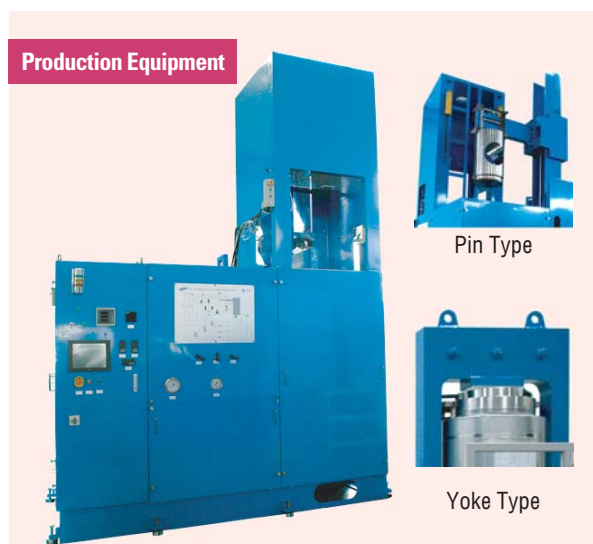
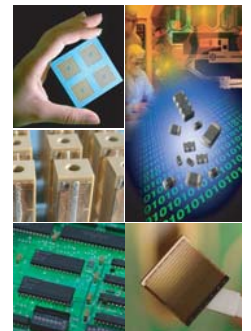


## Features




- Providing stable temperature consistency
- Heat treated and stress relieved materials used for equipment
- Pressing type by isostatic constant temperature
- Improved air bubble elimination efficiency
- Stable and accuracy in pressure and temperature setting

## Application

- 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		R & D Equipment	Pilot Equipment	Production Equipment
Products				
Vessel Size	Internal Dia.	25 ~ 150 mm	150 ~ 300 mm	300 mm ~
	Internal length	100 ~ 300 mm	200 ~ 500 mm	500 mm ~
Max. Pressure		~ 60,000 psi	~ 60,000 psi	~ 60,000 psi
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		- Valve Control : 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

\* Can be changed upon customer's requirements.

## 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

\* Can be changed upon customer's requirements.