



# DRY BAG ISOSTATIC POWDER COMPACTION PRESSES MONOSTATIC SERIES

## **GASBARRE PRESS DIVISION**

Mechanical Compacting & Sizing Presses  
DuBois, PA

## **BEST HYDRAULIC PRESS**

Hydraulic Compacting & Sizing Presses  
DuBois, PA

## **PTX-PENTRONIX**

High Speed Compacting Presses  
Plymouth, MI

## **SIMAC LTD.**

Isostatic Presses  
Rugby, England

## **SINTERITE PRODUCTS**

Continuous Belt Sintering Furnaces  
St. Marys, PA

## **C.I. HAYES**

High Temperature Furnaces  
Cranston, RI

## **J.L. BECKER**

Heat Treating Equipment and Components  
Plymouth, MI

## **McKEE CARBIDE TOOL**

Precision Machined Components  
Olanta, PA

## **MAJOR GAUGE & TOOL**

Precision Machined Components  
Livonia, MI

## **REMANUFACTURING AND REBUILD SERVICES**

Simac Limited offers a complete range of services to support the Simac Presses that it manufactures for remanufacturing or rebuilding. Our rebuild team can clean, disassemble, and evaluate your press for necessary rebuild work, then return the press to as new condition. These processes are followed with tight quality control to ensure that the machine performs as a new machine should.

## **CUSTOMER SERVICE, WORLDWIDE TECHNICAL ASSISTANCE AND REPLACEMENT PARTS**

The qualified staff at Simac Limited and Gasbarre Products offer prompt, courteous assistance to return and maintain your press to its optimum operating efficiency.

Consultation is available by telephone, fax, or email. On-site services can be arranged through our worldwide network of factory trained technicians:

- Troubleshooting & Repair Services
- Pressure Vessel and Control Retrofits
- Operator, Set up and Maintenance Training
- Replacement Parts
- Installation
- Field Retrofits

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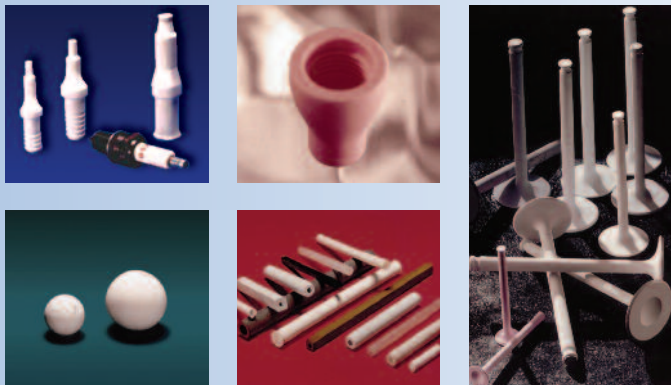


Gasbarre Products is an international supplier of hydraulic and mechanical powder compacting and sizing presses for simple to complex parts. Gasbarre designs are engineered for rugged, reliable operation, and backed by our reputation for quality and customer service.

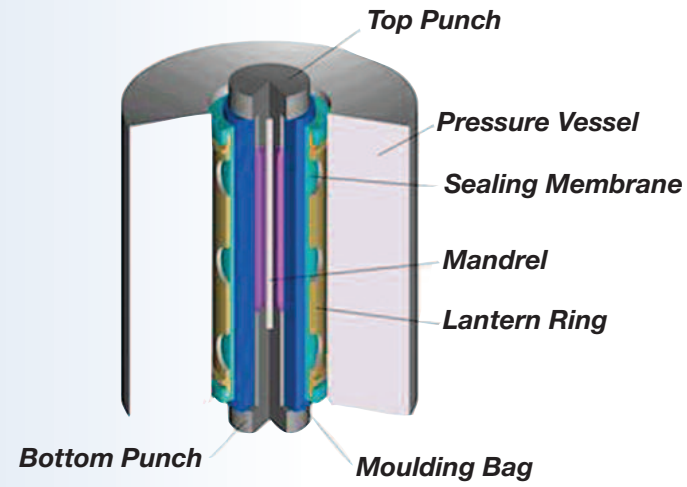
SIMAC Limited specializes in the design and manufacturing of Cold Dry Bag Isostatic Presses for the powder compaction industry.

Over the years, SIMAC has developed a set of uniquely configured presses to allow for laboratory type or production type processes for the manufacture of uniform density components. The dry bag design is employed so that powder filling, compaction, and ejection are greatly simplified from wet bag types. In most cases the process is more efficient due to the dry bag design allowing for quick, ready to press parts.

The SIMAC dry bag isostatic presses include a tool mounting system that allows for a wide range of parts to be produced in the same machine. Tool changeover is simple because of the dual inner bag configuration.



Isostatic Part Examples



Monostatic Press Pressure Vessel and Tooling Arrangement

## SIMAC MONOSTATIC PRESSES

The Monostatic range of single cavity Dry Bag Isostatic presses is designed for research and development as well as batch production. The range offers 100 ton, 300 ton, and 400 ton models with various iso-pressure capacities.

The Monostatic presses are available in a Series I or Series II configuration. These presses can be supplied in semi-automatic to fully automatic configurations. It provides full control of the pressing cycle with adjustable dwell at pressure. As customer's requirements vary, Monostatic presses can be specifically configured to suit the specific application.

### Key Features Include:

- Manual operation
- Removable inner (product) tools
- Iso-pressure gauge
- Adjustable iso-pressure
- Certified pressure vessels
- Bottom part removal
- Part ejection elevator
- Single-phase electric power
- Pneumatic iso-pressure pump system
- PLC control with Graphical User Interface (HMI)
- Manual or Semi-automatic operation
- Iso-pressure monitoring via electronic transducer
- Adjustable iso-pressure dwell
- Fully enclosed service-ready pneumatic system panel

## AVAILABLE OPTIONS

- Hydraulic Intensifier System
- Powder Transfer Unit
- Powder Metering Unit
- Bulk Powder Hopper
- Pick and Place System
- Output Conveyor System
- Rod Machining Equipment
- Program Storage
- Data Acquisition



Simac Limited is a subsidiary company of Gasbarre Products, Inc., specializing in the design and manufacture of Dry Bag Isostatic Presses for the powder compaction industry.



## Monostatic Press Specifications

Model	Type	Maximum Fill Diameter		Maximum Part Length		Maximum Isostatic Pressure	
		mm	Inches	mm	Inches	bar	psi
100 Series I & II	45/300/2400	45	1.77	300	11.81	2400	35280
	60/300/200	60	2.36	300	11.81	2000	29400
	75/300/1400	75	2.95	300	11.81	1400	20580
	45/425/2400	45	1.77	425	16.73	2400	35280
	60/425/2000	60	2.36	425	16.73	2000	29400
	75/425/1400	75	2.95	425	16.73	1400	20580
300 Series II	80/425/2400	80	3.15	425	16.73	2400	35280
	105/425/2000	105	4.13	425	16.73	2000	29400
	135/425/1400	135	5.31	425	16.73	1400	20580
	155/425/1000	155	6.10	425	16.73	1000	14700
400 Series II	80/425/3000	80	3.15	425	16.73	3000	44100
	105/425/2400	105	4.13	425	16.73	2400	35280
	135/425/2000	135	5.31	425	16.73	2000	29400
	155/425/1500	155	6.10	425	16.73	1500	22050
	180/425/800	180	7.09	425	16.73	800	11760