



# 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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*For Hard Metals, Ceramics, Plastics, Glass & More*





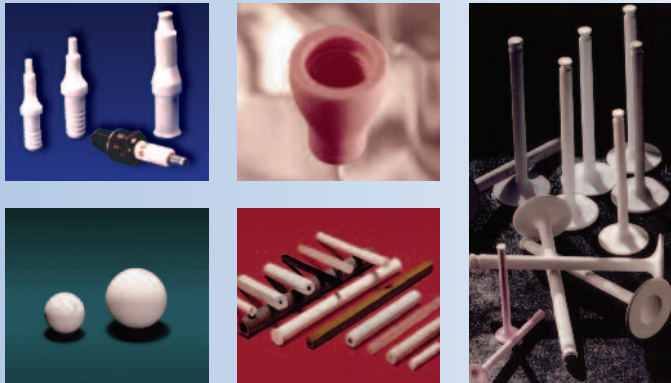
Gasbarre Products Inc. is an International supplier of Hydraulic and Mechanical powder compacting and sizing presses and Dry Bag Isostatic presses to produce simple to complex parts.

Gasbarre designs are engineered for rugged, reliable operation, and backed by our reputation for quality and customer service.

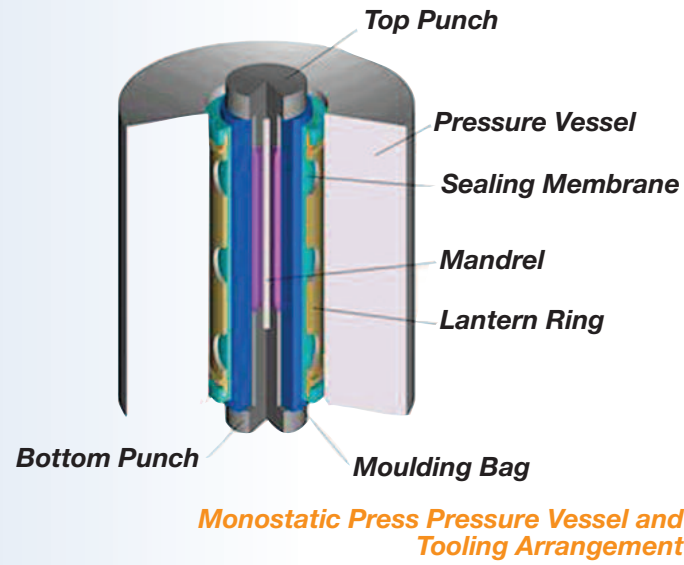
SIMAC Limited specializes in the design and manufacture of Cold Dry Bag Isostatic Presses for the powder compaction industry.

Over the years SIMAC has developed a set of uniquely configured presses to suit both laboratory and production processes for the manufacture of uniform dense parts. The dry bag design is employed so that powder filling, compaction and ejection are greatly simplified compared to the wet bag system.

The SIMAC Dry Bag Isostatic presses utilise a tooling system which not only allows a wide range of different part types to be produced from the same press but also offers rapid changeover times which are typically in the range 10-15 minutes.



Isostatic Part Examples



## SIMAC MONOSTATIC PRESSES

The Monostatic range of single cavity Dry Bag Isostatic presses is suited to both R&D as well as batch production. The range includes 100 Tonne, 300 Tonne and 400 Tonne models with various Isostatic pressure/part diameter capacities.

The basic model is supplied as a semi-automatic press where powder filling and part removal are performed manually by the operator. All remaining machine functions are automatically controlled by the machine PLC system.

### Key Features Include:

- Electronic control of the operating Isostatic pressure
- Latest PLC technology
- Graphic User Interface
- Adjustable Isostatic operating pressure
- Adjustable dwell at pressure
- Adjustable decompression rate
- Full surround guarding
- Quick change tooling system typically requiring only 10-15 minutes
- Ease of maintenance with all circuit components located in side mounted cabinets

## AVAILABLE OPTIONS

- Choice of two Isostatic pressure generating system:
  - Compressed air driven hydraulic pumps
  - Hydraulic Single Shot Intensifier system
- Automatic powder dispensing system including:
  - Powder Transfer Unit
  - Three metering systems:
    - By volume
    - By weight
    - By level filling
- Automatic part ejection systems including:
  - Custom Pick and Place systems
  - Custom Output conveyor systems
- Program storage
- Pressing cycle data recording



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.



300 Series II Monostatic Press

400 Series II Monostatic Press

400 Series II Monostatic Press (optional features shown)

## Monostatic Series II Press Specifications

Model	Type	Maximum Fill Diameter		Maximum Part Length		Maximum Isostatic Pressure	
		mm	Inches	mm	Inches	bar	psi
100 Series	45/300/2400	45	1.77	300	11.81	2400	35280
	60/300/2000	60	2.36	300	11.81	2000	29400
	45/425/2400	45	1.77	425	16.73	2400	35280
	60/425/2000	60	2.36	425	16.73	2000	29400
300 Series	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	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

Custom models are available.