

### **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

PTX-Pentronix, Inc. provides a complete range of services to support the PTX and Simac Presses that it manufactures for remanufacturing or rebuilding. Also supported are PTX Multipak Loaders and Gasbarre Presses. Our rebuild team can 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 technical staff of PTX and Gasbarre offer prompt, courteous assistance to return and maintain your press at 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 and repair services
- Tool design, tool capsule remanufacture, retrofit and assembly
- Operator, set up, and maintenance training
- Replacement parts
- Installation assistance
- Field retrofits

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# PRECISION HIGH-SPEED POWDER COMPACTION PRESSES



For Hard Metals, Ceramics, Plastics, Glass & More







PTX-Pentronix, Inc. is a subsidiary company of Gasbarre Products, Inc. Gasbarre 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.



# HIGH SPEED MULTIPAK® ANVIL PRESSES

Anvil pressing is the simplest, most economical high-speed method of compacting powder parts. Anvil pressing is a 'natural' for parts with one flat side. (The other side can be flat or multi-level. The parts can have holes, teeth, etc.) When thin parts fit this category, anvil pressing can benefit a wide range of applications. Our patented Unitized Anvil® design combines the powder feeder, anvil and vacuum pick up into one unit which is always in contact with the die plate. Since the die cavity is always covered until the part is pressed, powder spillage or blowout is virtually eliminated.

Press tooling is simple and less expensive. Parts are compacted against an anvil by the upward action of a lower punch (or punches). There are no upper punches and associated problems of misalignment, breakage and wear. Press setup is easy, and special skills are not required.

Available Press Tonnages: 4, 6, 16 and 35 ton

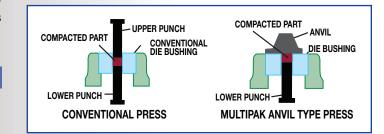


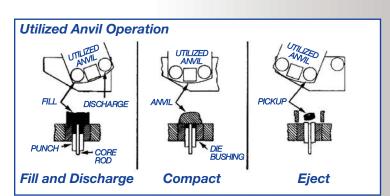
# HIGH SPEED MULTIPAK® CONVENTIONAL PRESSES

Specially designed for multiple cavities, high-speed, complex, and multi-level precision parts. The Multipak conventional presses offer powder transfer from top and bottom punches, a pre-press with the top punch, and a top punch hold-down system. With a standard removeable tool set, tool assembly is done off-line and can be replaced and adjusted within about 15 minutes. The same tool set may be used for a wide variety of parts.

The Multipak conventional press may also be used in the 'Anvil Press' mode.

#### Available Press Tonnages: 2, 6, 16, and 35 ton









Multipak® Anvil Press
Anvil part examples

Multipak® Conventional Press
Conventional part examples

### **Specifications**

					Anvil Presses										Conventional Presses							
	Model	1204		601		611		1601		3101		212		612		1612		3112				
Strokes per minute <sup>1</sup>	min-max	25-150		20-150		50-300		15-100		10-60		25-100		20-100		10-80		10-40				
Maximum Press Force	tons-kN	4	36	6	54	6	54	16	145	35	318	2	18	6	54	16	145	35	318			
Maximum Eject Force	tons-kN	2	18	3	27	3	27	8	73	17.5	159	1	9	3	27	8	73	17.5	159			
Upper Ram Stroke	inmm		nvil		rvil	anvil		anvil		anvil		1.17	29.72	1.75	44.00	2.38	60.00	3.63	92.00			
Maximum Fill	inmm	0.30	7.62	0.30	7.62	0.15	3.81	0.30	7.62	0.30	7.62	0.30	7.62	0.75	19.10	-	-	-	-			
Depth Cams <sup>2</sup>	inmm	0.60	15.00	0.75	19.00	-	-	0.75	19.00	0.75	19.00	0.60	15.00	1.10	27.90	0.75	19.00	0.75	19.00			
	inmm	1.10	27.90	1.10	28.00	-	-	2.00	50.80	2.00	50.80	-	-	1.5	38.10	2.00	50.80	2.00	50.80			
	inmm	-	-	-	-	-	-	-		3.00	76.20	-	-	1.75	44.50	-	-	3.00	76.20			
Max. Part Thickness	inmm	0.55	13.97	0.55	13.97	0.08	1.91	1.00	25.4	1.50	38.10	0.30	7.62	0.88	22.23	1.00	25.40	1.50	38.10			
Max. Part Diameter <sup>3</sup>	inmm	0.85	21.6	1.25	31.8	0.75	19.05	1.75	44.4	2.00	50.80	0.50	12.7	1.25	31.80		44.40	2.00	50.80			
Cavities <sup>4</sup>		1-22		1-30		1-22		1-50		1-50		1-22		1-30		1-50		1-50				
Motor	HpkW	0.75	0.55	1.5	1.1	1.5	1.1	5	3.7	7.5	5.6	1.5	1.1	3	2.2	5	3.7	7.5	5.6			
Air Pressure Req'd.	psi-bar	80	5.5	80	5.5	80	5.5	80	5.5	80	5.5	80	5.5	80	5.5	80	5.5	80	5.5			
Free Air Req'd.	scfm-m <sup>3</sup> /min	10	0.283	10	0.283	10	0.283	20	0.566	20	0.566	20	0.566	20	0.566	20	0.566	20	0.566			
Overall Height <sup>5</sup>	inmm	61	1549	66	1676	66	1676	85	2158	87	2209	70	1778	77	1955	96	2437	96	2437			
Overall Width	inmm	24	610	36	914	31	787	36	914	36	914	31	787	31	787	36	914	36	914			
Overall Depth	inmm	24	610	30	762	27	686	52	1321	58	1473	24	610	27	686	52	1321	57	1449			
Net Weight (approx.)	lbskg	610	277	1650	748	1650	748	4400	2000	5600	2540	800	362	2200	998	6900	3130	8150	3697			
STANDARD FEATURES																						
Adjustable fill height		•		•		•		•		•		•		•		•		•				
Adjustable mold height		•			•		•		•		•		•		•		•		•			
Deflection compensation		ob;	optional		•		•		•		•		optional		•		•		•			
Vacuum parts pickup		•		•		•		•		•		•		•		•		•				
Parts discharge conveyor		optional		•		•		•		•		•		•		•		•				
Automatic lubrication			•		•		•		•		•		•		•		•		•			
Variable speed drive		•		•		•		•		•		•		•		•		•				
OPTIONS																						
Compaction Force Load												•		•		•		•				
Overfill/underfill or floatin	•			•		•		•		•		•		•		•		•				
Tool capsule (solid/cored	•			•		•		•		•		•		•		•		•				
Remote control enclosure		•		•		•		•		•		•		•		•		•				
Wear resistance package			•		•		•		•	•		•		•		•		•				
Top punch hold down													•		•		•		•			
Multiple powder filling			•		•		•		•		•		•		•		•		•			

NOTES:

(¹) Maximum speed is with minimum fill cams (³) Contact PTX for analysis of part height (⁵) Height includes powder hopper (²) Contact PTX for consideration of deeper fill
(4) Depending upon total force requirement

### **MULTI-LOADER® PART HANDLING SYSTEM**

Automatic Multi-Loader high-speed part handling systems are microprocessor controlled to pick and place a variety of parts from the press die table, press conveyor, or other feeding machines, and place onto saggers, boats or trays. Designed to load parts one at a time, or a row at a time, the Multi-Loader consists of an indexing conveyor to advance the tray, a robot arm to pick and place the parts, a microprocessor based controller, and an operator control panel.

