

# Press Services & Training Advanced Powder Compaction



EXPERT SERVICE  
FROM THE  
LEADER IN PRESS  
TECHNOLOGY

 **GASBARRE**  
PRODUCTS, INC.



# YOUR BUSINESS CHALLENGES

You run a tight ship. You need the right people onboard.

**P**owder compaction is a competitive business. Part art, part science, the knowledge that is carefully cultivated over a period of years and decades represents a distinct competitive advantage.

But what happens when that knowledge doesn't exist? When the people who have built the business into what it is today decide to ride off into the sunset? Baby boomer retirements are exposing

a dire issue: their replacements often do not have the experience required for the job. Just finding people with the right skills is expensive, and once found they are 35% more expensive than they were just ten years ago.

What can an owner or manager do to prepare their company for the road ahead— when labor will be more expensive, will hold less accrued knowledge, be harder to retain— and yet still hold the keys to company success?

There is a solution. Working with expert partners can be the answer to these challenges. Whether bringing in expertise as needed to accomplish defined tasks, using that expertise to train existing employees, or automating workflow to reduce dependence on a fluid workforce, top companies work with partners in a way that allows them to concentrate on their core mission— making quality parts.

## The New Reality: Higher Compensation Cost, Decreased Retention, More Risk



Since 2005

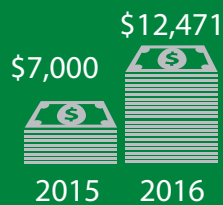
Employees are expensive. Manufacturing compensation costs continue to increase.



Skilled replacements are harder to find and more expensive. Direct replacement costs can be 60% of annual pay.



Knowledge is walking out the door. Baby Boomers represent 3 out of every 10 employees.



Mistakes are more expensive. As of August 2016, OSHA increased fines for all categories of violation by nearly 80% ("Other than Serious" penalties are shown).

# GASBARRE SOLUTIONS

## OVER 40 YEARS OF EXPERIENCE. AT YOUR FINGERTIPS.

1

### PLANNED PREVENTATIVE MAINTENANCE

Protect Your Investment. Improper maintenance is at the root of 70-80% of all equipment failures. Gasbarre's expert technicians know the little signs that can indicate big problems are right around the corner. Top companies put our experience to work for them with the Gasbarre Preventative Maintenance Program.

#### PROGRAM HIGHLIGHTS

- ▣ Baseline Machine Inspection (70+ points)
- ▣ Formal Report Summarizing Maintenance Priorities
- ▣ Ongoing Planned Maintenance on YOUR Schedule
- ▣ Immediate Problem Resolution\*

Preventative Maintenance Checklist Die Set Series		
GAS-B-35-TON		
1	PITRMANTOP RANGES:	Original/NewSpec 1227
1.1	Check pitman ball screw/lead adjustment	BEH/BEAT/350
1.2	Check gap adjustment	GOOD
1.3	Check top ram alignment to crosshead	L/R 0
1.4	Check main and pitman bearings for wear	L/R 0.251
		L main 0.255
		R main 0.250
		pitman 0.210
1.5	Check pressure loaded push roll down operation	GOOD
1.6	Check for air leaks and cylinder issues	GOOD
1.7	Check for piston adjustment	GOOD
2	DIE SET	
2.1	Check crosshead alignment to die set ram shaft	L/R 0
2.2	Check bushings for wear (see inspection sheet)	NA
2.3	Check die to guide roller condition for wear	NA
2.4	Check die plate ejector rod bushings for wear	GOOD
2.5	Check and adjust Check No. 1 plate mounting bolts	NA
3	EJECTION HOUSING AND LINKAGE	
3.1	Check ejection timing for wear	GOOD
3.2	Check ejection rollers	GOOD
3.3	Check ejection cam link roller	GOOD
3.4	Check die sets cam link bearing plate bolts	GOOD
3.5	Check links in ejection housing	GOOD
3.6	Check bushings in ejection housing and supports	GOOD
3.7	Check ejection rollers for air leaks and alignment	GOOD
3.8	Check ejection bearings and supporting mounting bolts	GOOD
4	BELL OPERATIVE POLYMER AIR SYSTEM	
4.1	Check bar and pipe for wear, alignment and tension	GOOD

2

### ON-SITE TRAINING

Increase your knowledge. Gasbarre can make experts of your personnel. Training by industry leaders in the setup, operation, and maintenance of press equipment, conducted on customer site, under real-world conditions. Training is available for everyone from beginners to seasoned veterans looking to brush up on best practices. Training is tailored to provide attendees the knowledge they need to excel at their job. A smart investment in any workforce.



SET-UP | OPERATION | MAINTENANCE

3

### AUTOMATION

Reduce labor costs. Automation solutions from Gasbarre can streamline the manufacturing process and reduce labor expenses while increasing output. Our unique experience bridges powdered material processing and automation in a way few companies can.

- ▣ Robots
- ▣ Loaders & Unloaders
- ▣ Feeder Arms
- ▣ Assembly & Inspection Machines
- ▣ Automated Weighers
- ▣ Indexing Systems
- ▣ Visual Inspection Systems



Gasbarre Products is a Fanuc Authorized Systems Integrator





## WORLDWIDE SUPPORT

Gasbarre Products' qualified technicians, trainers, and sales staff offer prompt courteous assistance to help maintain your press at peak performance. Consultation is available via telephone or email, or on-site through our worldwide network of factory trained technicians.



### GASBARRE PRESS GROUP

- Mechanical
- Hydraulic
- Electric
- Isostatic
- High-Speed
- Press Accessories



### GASBARRE FURNACE GROUP

- Sintering
- Brazing
- Quench
- Annealing
- Steam Treating
- Tempering
- Vacuum
- Atmospheric



### GASBARRE TOOL GROUP

- Tooling
- Precision Machining
- Design Services



### GASBARRE TECHNOLOGIES

- Engineering & Design
- Custom Fabrication
- Electrical Assembly
- Integration



MADE IN THE USA



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