



*PRESS
FURNACE
TOOLING
AUTOMATION*

**CORPORATE
OVERVIEW**



At Gasbarre Products, Inc., we believe in partnering with our customers to provide the right machine for each application. We offer start-to-finish equipment, from powder handling equipment, to tool and die, presses, furnaces and finishing, for production of parts in the powder metallurgy, technical ceramics, plastics, carbides, and refractory metals industries.



*Gasbarre
CNC Hydraulic Press*

GASBARRE POWDER COMPACTION & SIZING PRESSES

Compacting & Sizing Presses The Gasbarre is an internationally acclaimed designer and manufacturer of powder compaction and sizing presses for the particulate material industries. Press capacities range from 5 tons to 1200 tons. There is a variety of designs available to manufacture simple-to-complex multi-level components for carbides, ceramics, powder metals, polymers, and other materials. Gasbarre's CNC Control System allows easy operation utilizing a touchscreen HMI for parameter setting and storage. This allows for remote diagnostics by Gasbarre's Customer Service Team. Possible configurations include opposed ram with push-up ejection, or withdrawal ejection with a conventional top ram and lower ram, connected to the die platen. Gasbarre also offers a wide range of industry related accessories including the TOPS Warm Compaction System, Die Wall Lubrication System, Fluidized Fill Shoe System, and Gasbarre Sizing Press feeding systems.



*PTX - Pentronix
High Speed Compacting Press*

PTX-PENTRONIX

High Speed Compacting Presses

PTX-Pentronix designs and manufactures high-speed mechanical powder compaction presses ranging from 2 to 35 tons for ceramics, magnets, ferrites, carbides, plastics, and powder metal industries worldwide. We pioneered precision anvil pressing for unprecedented accuracy, repeatability, and productivity. Also offered, is the opposed ram design that is a 3-mode press; it can press in anvil mode, conventional to down mode, or opposed ram mode.



*Simac Monostatic
Dry Bag Press*

SIMAC

Isostatic Presses

Simac produces cold isostatic presses for compaction of various powder compositions. The latest technology for dry bag pressing is employed. Monostatic presses are single-cavity dry bag isostatic presses designed to cover the production needs from research development, to batch production. Den-somatic presses are automatic, multi-cavity dry bag isostatic presses capable of producing different components at the same time. All Simac presses are capable of producing a wide range of complex shapes or basic components from a variety of materials.

GASBARRE THERMAL PROCESSING EQUIPMENT



CONTINUOUS ATMOSPHERE FURNACES

Gasbarre Thermal Processing Systems manufactures, installs and commissions a wide range of continuous atmosphere products which include mesh belt, pusher, and roller hearth furnaces. Our product line covers a wide range of different processes including sintering, brazing, annealing, glass-to-metal sealing, carburizing, carbonitriding, hardening, inert atmosphere processing, normalizing, stress relieving, tempering, and drying. These products are highly energy efficient, and can be gas-fired or electrically heated. They are available in standard configurations and sizes or can be custom designed. We can provide the ideal product to process your specific parts based upon your process, temperature, atmosphere, and throughput requirements.



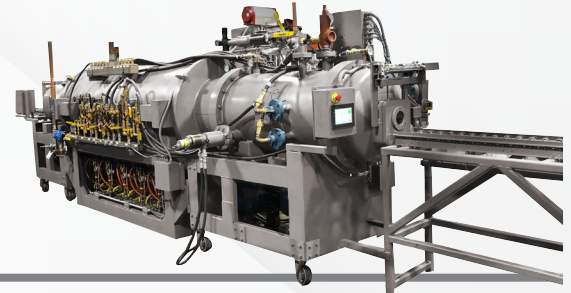
BATCH ATMOSPHERE FURNACES

Gasbarre Thermal Processing Systems manufactures, installs, and commissions a full range of batch atmosphere products. Our product line covers a wide range of different processes including tempering, annealing, nitrocarburizing, nitriding, stress relieving, normalizing, steam treating, and inert atmosphere processing. These products are highly energy-efficient and can be gas-fired or electrically heated. They are available in standard configurations and sizes or can be custom designed. We can provide the ideal product to process your specific parts based upon your loading method, process, temperature, and atmosphere requirements.



BATCH VACUUM FURNACES

Designed for many thermal processes, the electrically heated batch vacuum furnace is available in a multitude of configurations. The most basic configurations are the front and top-loading single chamber styles where work is loaded into and out from the same door. These are designed for high-temperature applications such as brazing, annealing, carburizing, hardening, tempering and are supplied with graphite or ceramic insulation packages. Evacuation systems include rough pumps, boosters, and diffusion pumps when required. Being modular in design, independent quench chambers may be added to the basic heating chamber. The quenching mediums may be gas, pressurized gas, and/or oil. Isolation of the modules (temperature and vacuum level) may be accomplished with an internal vacuum door.



CONTINUOUS VACUUM FURNACES

The continuous vacuum furnace essentially transforms the batch vacuum furnace into a straight through furnace. Work is no longer processed into and out from the same side – rather work is loaded into the entry side and unloaded from the exit side of the furnace. Modules consist of load/evacuation chambers, preheat and high heat chambers, multiple heat position chambers, and quench (oil and/or pressurized gas) chambers. Small batches are therefore indexed in a continuous fashion making this style furnace highly productive in processes that range from annealing, brazing, carburizing, sintering, to hardening. With the continuous vacuum furnace, the heat chamber typically remains hot and under vacuum making for a highly efficient and pure system.

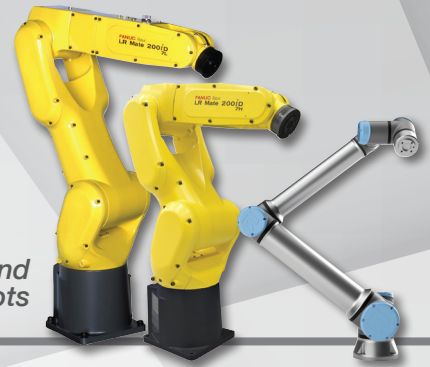
*Precision Tooling
Components*



PRECISION TOOLING

McKee Carbide Tool has been a leader in precision machining and tooling components for the electronics, powder metal, and advanced materials industries for over 30 years. Manufacturing tolerances as low as .0001 inch (0.0025 mm) assure precision accuracy and repeatability while following McKee's stringent ISO 9001 quality system. Our areas of expertise include design and manufacture of miniature compaction tooling, shock absorber component compaction tooling, conventional and multi-level compaction tools, straight gear tooling, precision jigs and fixtures, and wear parts for precision automated machinery

*Fanuc and
Universal Robots*



AUTOMATION SOLUTIONS

Gasbarre is an Authorized Systems Integrator for FANUC and Universal Robots. Our engineers have the right experience for your job, and will review the job scope and key needs and design the best-fit solution. Gasbarre can provide start-to-finish management of the project, allowing customers to focus on their core business, and backed by our commitment to 100% customer satisfaction.

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.



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