

**REFRACTORY**

**Allentown**  
SHOTCRETE TECHNOLOGY

A **Putzmeister** COMPANY



- Refractory Lining
- Spraying Castables
- Wet- and Dry-Process Shotcrete

**REFRACTORY**

## GUNNING MACHINES



### AG-15 Automatic Gun

- Industrial-grade air motor.
- Industrial-grade gear box.
- Rugged roller chain drive with automatic lubrication.
- Four-point precision pad adjusting system.
- Cast housing pivots for easy bowl removal.
- Abrasion-resistant wear plates — bolt to bowl.
- Long-life wear pad.
- Improved gooseneck for better material flow.
- Simpler setup of bowl and wear pad.
- Improved plumbing for more efficient air flow.



### Piccola

- Built to the Swiss design.
- Shotcreting machine for dry-mix process using the through-chamber rotor principle.
- Versatile, robust, requires little maintenance and easy to operate.
- Includes a half-rotor and 1" (25mm) hose.
- Useful for small patches and thin linings.
- Can shoot up to 6 yds<sup>3</sup>/hr (5m<sup>3</sup>/hr).
- Standard 1-1/2" (38mm) hookup is used widely in repair and refractory applications.



### GM-060 Rotary Gun

- Since 1957, the GM-060 Rotary Gun has earned a worldwide reputation for ruggedness and reliability.
- Offering a design specifically engineered for high-volume projects.
- Ideal for dry-process shotcrete in heavy civil construction applications.
- Requires little maintenance and is easy to operate.
- Powerful single-speed electric motor is standard, and two-speed electric motor, variable-speed electric motor, diesel engine or hydraulic motor are available options.
- Can be ordered with a hopper vibrator, remote control and dust collector.



### N-TYPE Pneumatic Gun

- Allentown's "N" type guns are a modern version of the original cement gun built by Allentown for more than 95 years.
- Most versatile machines available for the complete range of dry-process gunite, shotcrete and refractory applications.
- Ruggedly built to withstand hard, continuous use.
- Renowned for their ability to feed dry or damp, coarse or fine, and dense or lightweight materials at a smooth, accurately metered rate over 500' (152m) vertically or 1000' (305m) horizontally.

## PRE-DAMPENERS



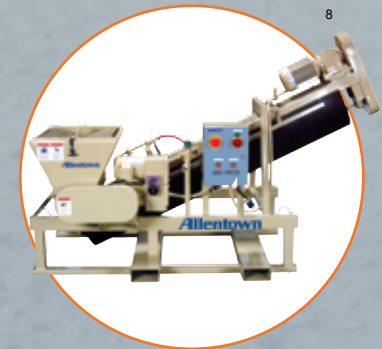
### R900

- Tandem trailer-mounted unit.
- Mixes and delivers 8 to 10 tons of material per hour.
- Designed for high-volume sand/cement gunning work or refractory gunning.
- Ideal for use with the N-2 gun, but will also feed any Allentown rotary gun.
- Ease of operation and maintenance makes this unit Allentown's most popular rig.



### PD-1/GRH Gunning Rig

- For use with packaged, pre-blended materials for shotcrete and refractory applications.
- Provides the opportunity to add a controlled amount of moisture to the bagged material as it is transported and fed into the gun.
- The addition of moisture – as much as 60 percent of the total water required – and the mixing action of the auger starts the hydration process long before the material reaches the nozzle.
- The controlled design mixes (prebagged) ensure the amount of water added at the nozzle, in the split second that the material passes through the water ring, produces proper, in-place shotcrete.



### PD-1 Continuous Pre-Dampener

- Designed to be used with packaged, preblended materials for shotcrete and refractory applications.
- Provides the opportunity to add a controlled amount of moisture to the bagged material as it is transported and fed into the gun.
- Greatly reduces rebound.
- Eliminates dust, providing greater visibility for the nozzleman.
- Produces quality material in place.
- Reduces amount of wear on gun wear parts.

## GUNNING MACHINES



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### GRH-610 Rotary Gun

- Single-point clamping system.
- The hydrostatic transmission drive gives precise rotor speed with electric, diesel or gasoline engine power.
- Ideal for any dry-process shotcrete or refractory application, as well as thin linings, small patchwork and production gunning.

## COMBINATION MIXER-PUMPS



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### MR-2200

- Combines the proven high performance of an RP-10 and a one-ton pan-type mixer in a configuration that is convenient, practical and functional — completely self-contained on a trailer-mounted rig.
- Redesigned with new, improved features, including added horsepower, a high shear high-efficiency mixer and innovative micro-processor controls.
- Wear parts are improved for superior reliability.
- 17 percent more material pump output available.
- 3" (76mm) material cylinders, 3" (76mm) swing-tube and 3" (76mm) outlet minimize material reduction requirements.



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### MR-3300

- Exciting new development in refractory placement technology.
- Combines the proven high production of a RP-20 Refractory Pump and a 3,300 lb capacity (1.5 MT) pan-type mixer in a configuration that is convenient, practical and functional — completely self-contained on a trailer-mounted rig.
- Extremely versatile machine which offers numerous features that, when combined, make mobilization, setup, production and cleanup a much simpler task.
- All functions are easily controlled by one operator.
- The production and reliability of the MR-3300 is unmatched by any other machine in the world today.



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### POWERCRETER® Magnum

- The most versatile concrete repair pump manufactured by Allentown.
- Conveys low slump repair materials over long distances.
- 5 ft<sup>3</sup> (1.4m<sup>3</sup>) mixer capacity.
- Energy provided by the remixer in the receiving hopper keeps thixotropic mixes in optimal condition for pumping.
- Powerful 46 hp (34kW) Deutz diesel engine.



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## MIXERS

### MRV-2200 Shear Force

- Mixer discharge easily fits over the hopper of a trailer or forklift mounted pump.
- Based on Allentown's successful high production mixer/pump rigs.
- Unique paddle design, including abrasion-resistant steel and hard faced paddles.
- Field-proven to provide faster mixing times.
- Engineered to be high shear, high energy and extremely efficient.



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## PUMPS

### POWERCRETER® 10

- Fills the void between small-line mechanical ball valve pumps and 5" to 6" (125 - 152mm) cylinder-diameter concrete pumps.
- Compared to ball valve-type pumps, the Powercreter swing-tube design gives the operator the benefits of reversing for relieving pressure due to plugs, pumping difficult low slump or fiber mixes and lower maintenance costs.
- The 3" (76mm) material cylinders and variable, smooth hydraulics allow extremely controlled low output for specialized applications and maintain much of their output pressure when reducing to smaller diameter conveying lines.



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### POWERCRETER® 20

- Allentown's answer for midrange pumping requirements.
- Can be fed by ready mix truck, on-site mixer, optional integrated batch or continuous mixer.
- Rugged, high pressure pumping system.
- Rated for up to 20 yds<sup>3</sup>/hr (15m<sup>3</sup>/hr), this pump is chosen for a broader range of pumping applications than any other model.
- When shotcreting, the fast switch-over of the swing tube reduces pulsing at the nozzle.
- Offers superb control for the most critical geotechnical and compaction grouting applications.
- Easily handles harsh mixes, including low cement, low moisture and refractory pumping castables.



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### KATT-KRETER™

- Powerful, high pressure model ideal for shotcrete applications.
- Rugged construction and an angled hopper.
- Proven Putzmeister S-Valve technology offers reliable and long-lasting performance.
- Smooth operation with twin-shifting cylinders.

## Covering the World with Shotcrete Solutions for over 95 Years

From the beginnings of shotcrete over 100 years ago, the Allentown name has been synonymous with the process of spraying mortar onto a surface at a high velocity. In its first iteration as The Cement Gun Company, the organization capitalized on the fact that only certain mix designs placed by a genuine "Cement Gun" could be classified as its registered trademark "Gunite."

Today, Allentown Shotcrete Technology, Inc. is the industry leader in the design and manufacture of wet- and dry-process shotcrete equipment including:

- Gunning Machines
- Pre-Dampeners
- Pumps
- Combination Mixer Pumps
- Mixers
- Chemical Additive Pumps
- Nozzle Carriers
- Mortar Machines
- Concreting Machines
- Parts and Accessories

Committed to serving customers with the industry's best service, as well as dependable, high performance equipment, Allentown is now a Putzmeister America company. Known and respected worldwide for its full line of concrete and material placing equipment and water technology, Putzmeister combines its products and industry expertise with Allentown's to offer over 50 complementary products. The organization now provides the world's most comprehensive range of sprayed concrete equipment for large and small applications in refractory, underground, mortar and civil work.

**Allentown Shotcrete Technology: the only name you need to know for shotcrete.**

For model specifications and available options, please consult model specification sheets or contact the factory.



Allentown Shotcrete Technology, Inc.  
421 Schantz Road  
Allentown, PA 18104 USA  
Telephone (610) 398-0451  
(800) 553-3414  
Facsimile (610) 391-1934  
[www.allentownshotcrete.com](http://www.allentownshotcrete.com)

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