

## GRH-610 ROTARY GUN

The GRH-610 Rotary Gun uses a moving friction-sealed rotor to meter material into the air stream. This proven design combined with a standard single-speed electric motor and flat hopper with bag breaker and screen easily handles dry-process shotcrete mixes. Ideal for Refractory and Civil work, this gun has a single-point clamping system and is simple to set up, operate, disassemble and clean up. Rubber tires are standard.

### OPTIONS:

- Air motor (250 - 600 cfm), 2-speed electric motor, variable speed electric motor, gasoline engine, diesel engine or no power (rig mounted)
- Outlet 1" (25mm), 1.25" (32mm) with half-rotor, 2" (50mm) with full rotor
- Rotor options including 12 round-hole, 9 round-hole, 12 pie-shaped-hole, half 12 round-hole and half 12 pie-shaped-hole
- Slanted hopper with screen
- Rig or skid mounting
- Hopper modifications for gunning "plastic" refractory
- Water booster pump
- Dust suppression system
- Vibrator

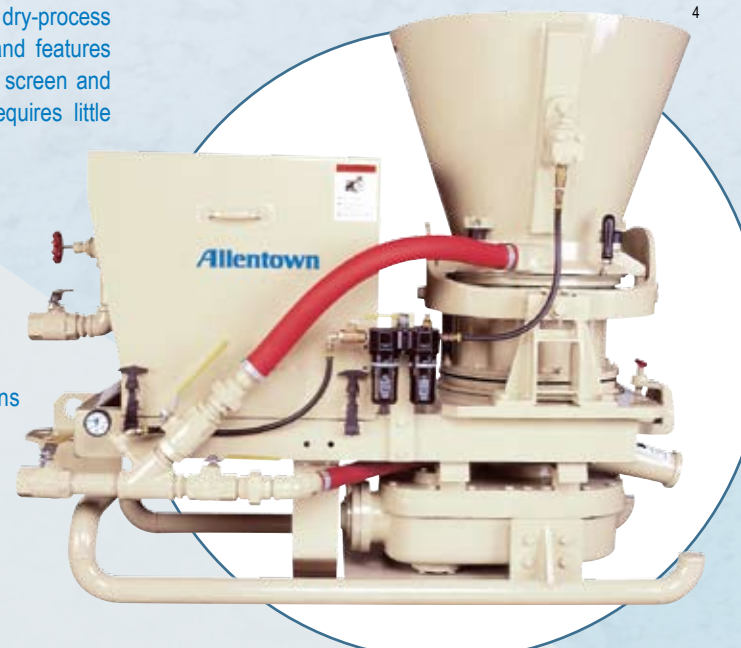


## GM-060 ROTARY GUN

The GM-060 Rotary Gun has had a worldwide reputation for ruggedness and reliability since 1957. Its design is specifically engineered for high-volume, heavy construction dry-process shotcrete in Underground and Civil applications and features a single-speed electric motor, slanted hopper with screen and 9 round hole rotor as standard. This machine requires little maintenance and is easy to operate.

### OPTIONS:

- Air motor (500 - 1,000 cfm), 2-speed electric motor, variable-speed electric motor, diesel engine or hydraulic motor (350 - 750 cfm)
- 1.5" (38mm) and 2.5" (65mm) outlet diameters
- 16 round hole and 9 pie-shaped hole rotor options
- Flat hopper with bag breaker and screen
- Rubber tires, rig or skid mounting
- Hopper vibrator
- Remote control
- Dust collector



# Allentown Gunning Machines

## Specifications

| Performance                       | AG-15   | Piccola   | GRH-610   | GM-060   | N-Type   | S-1-10                     | S-2-45  |
|-----------------------------------|---|---|---|--|--|----------------------------|---|
| Max volume output                 | 3 -15 yd <sup>3</sup> /hr<br>(2.3 - 11.5m <sup>3</sup> /hr) | 1 - 6 yd <sup>3</sup> /hr<br>(0.76 - 4.6m <sup>3</sup> /hr) | 1 - 6 yd <sup>3</sup> /hr<br>(0.76 - 4.6m <sup>3</sup> /hr) | 4 -12 yd <sup>3</sup> /hr<br>(3.1 - 9.2m <sup>3</sup> /hr) | 2 - 8 yd <sup>3</sup> /hr<br>(1.5 - 6.1m <sup>3</sup> /hr) | -                          | 1 - 6 yd <sup>3</sup> /min<br>(0.76 - 4.6m <sup>3</sup> /min) |
| Horizontal pumping distance*      | 500'+ (152m+)   | 1,000'+ (305m+)   | 1,000'+ (305m+)   | 1,000'+ (305m+)  | 1,000'+ (304m+)  | 50 - 500 ft<br>(15 - 152m) | 50 - 500 ft<br>(15 - 152m)                                    |
| Vertical pumping distance*        | 100'+ (30m+)  | 200'+ (61m+)  | 200'+ (61m+)  | 200'+ (61m+)   | 500'+ (152m+)  | 50 - 500 ft<br>(15 - 152m) | 50 - 500 ft<br>(15 - 152m)                                    |
| Technical Information             |   |   |   |  |  |                            |   |
| Process Type                      | Dry   | Dry   | Dry   | Dry  | Dry  | Dry                        | Dry   |
| Air Requirements (electric drive) | 300 - 900 cfm   | 100 - 300 cfm   | 100 - 300 cfm   | 350 - 750 cfm  | 250 - 900 cfm  | -                          | 250 - 750 cfm   |
| Rotor Speed                       | -   | 10 - 14 rpm   | 10 - 14 rpm   | 0-15 rpm   | -  | -                          | -   |
| Outlet Diameter                   | 2" (50mm)   | 1.5" (38mm)   | 1.5" (38mm)   | 2" (50mm)  | 1.5" (38mm)  | -                          | 1.5" (38mm)   |
| Dimensions                        | w/deep bowl   | w/flat hopper   | w/flat hopper   | w/flat hopper  | -  | on A-frame                 | -   |
| Length                            | 41" (104cm)   | 51" (130cm)   | 65" (165cm)   | 64" (163cm)  | 46" (116cm)  | 70" (178cm)                | 55" (140cm)   |
| Width                             | 33" (84cm)  | 32" (81cm)  | 33" (84cm)  | 30" (76cm)   | 46" (116cm)  | 44" (112cm)                | 55" (140cm)   |
| Height                            | 42" (107cm)   | 48" (122cm)   | 52" (132cm)   | 55" (140cm)  | 54" (137cm)  | 51" (130cm)                | 96" (244cm)   |
| Weight (approx)                   | 680 lbs (380kg)   | 800 lbs (363kg)   | 1,100 lbs (499kg)   | 1,500 lbs (680kg)  | 1,220 lbs (553kg)  | 1,350 lbs (612kg)          | 2,000 lbs (907kg)   |

\*Based on rotor and speed, material, conveying distance and air available.  
\*\*Pumping distances shown were calculated at the maximum volume output. They are to be used as a guide only and can be exceeded on specific projects. Maximum attainable distances depend on concrete mix design, pipeline diameter and specific job site conditions. Specifications subject to change without prior notice. Weights vary with options selected. Photos for illustrative purposes only. Refer to Allentown operational manuals for safe and proper equipment operation.

|             |             |
|-------------|-------------|
| Refractory  | Refractory  |
| Underground | Underground |
| Civil       | Civil       |

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



Committed to serving customers with the industry's best service, as well as dependable, high performance equipment, Allentown is a Putzmeister America company. Known and respected worldwide for its full line of concrete and material placing equipment, 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.

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

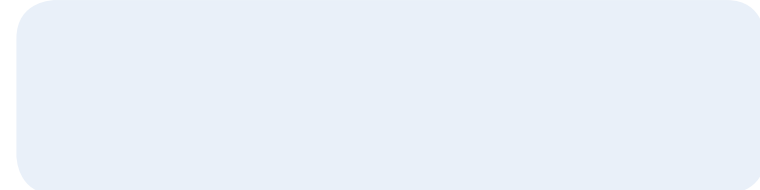
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## Gunning Machines

Proven Dry-Process Technology



A Putzmeister COMPANY



- Robust design for lasting performance
- Bowl and flat hopper styles
- Various mounting options
- Simple to operate and maintain

GUNNING MACHINES



# Allentown

SHOTCRETE TECHNOLOGY

A **Putzmeister** COMPANY

Since the introduction of the first Cement Gun at the New York Concrete Show in 1910, Allentown has been the leader in design, engineering and manufacturing of innovative and effective gunning equipment for dry-process shotcrete in Refractory, Underground and Civil applications. Each machine offers proven performance and dependability on demanding job sites.

## AG-15 AUTOMATIC GUN

The AG-15 is completely automatic and ideal for dry-process shotcrete in Civil applications. Material is loaded into the hopper, where a rotary stirring spider loosens it and pushes it down into the U-shaped material pockets of the rotating feed bowl. Compressed air pushes the material out of the feed bowl and into the delivery hose, providing a steady flow of material to the nozzle for even hydration. Pneumatic tire mounting is standard.

### OPTIONS:

- Air or hydraulic motor
- 2" (50mm) outlet diameter
- Rig mounting



## ALLENTOWN PICCOLA

The Allentown Piccola is built to the Swiss design with a single-speed electric motor, flat hopper with bag breaker and screen, and 1.5" (38mm) outlet diameter as standard. It is a recommended machine for dry-process shotcrete in Refractory and Civil applications. Versatile and robust, this machine requires little maintenance and is easy to operate.

### OPTIONS:

- Air motor (250 - 600 cfm), 2-speed electric motor, variable speed electric motor, gasoline engine, diesel engine or no power (rig mounted)
- Outlet diameters including 1" (25mm), 1.25" (32mm) with half-rotor and 2" (50mm) with full rotor
- Rotor options including 12 round-hole, 9 round-hole, 12 pie-shaped-hole, half 12 round-hole and half 12 pie-shaped-hole
- Slanted hopper with screen
- Pneumatic tires, forklift or skid mounting
- Hopper modifications for gunning "plastic" refractory
- Dust suppression system
- Vibrator



## N-TYPE PNEUMATIC GUN

Allentown's "N" type guns are modern version of the original cement guns built by Allentown for more than 95 years. They remain the most versatile machines available for the complete range of dry-process gunite in Refractory and Civil applications. Featuring a standard 2 -14 rpm air motor, air-operated exhaust and steel wheels, they are ruggedly built to withstand hard, continuous use and are 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) feet vertically and 1,000 feet (305m) horizontally.

### OPTIONS:

- 1 - 7 rpm hydraulic motor (when rig mounted)
- 1.25" (32mm), 1.63" (41mm) and 2" (50mm) outlet diameters
- A-frame, forklift or rig mounting
- Feedwheel cover
- Bag breaker



## S-1-10 SINGLE TANK GUN

The S-1-10 Single Tank Gun is ideal for many Refractory applications such as hot-gunning or carbon-injecting electric furnaces, and patching other high-temperature processing vessels. This unit has a 10 ft<sup>3</sup> (2.27m<sup>3</sup>) capacity and comes standard with hard rubber wheels.

### OPTIONS:

- Forklift frame mounting
- 1.25" (32mm) and 1.5" (38mm) hoses



## S-2-45 SINGLE TANK GUN

The S-2-45 Single Tank Gun has a unique feedwheel system and 1.5" (38mm) outlet diameter that allows the gun to deliver material smoothly and accurately over a range of granular sizes and moisture contents. The load-cell weighing system allows preset injection amounts. Standard features include 45 ft<sup>3</sup> (1.27m<sup>3</sup>) tank capacity, level indicator in feed hopper, high/low tank level indicators, refilling from remote control pendant and a structural mounting frame for the gun. Thousands of the S-2-45 are in use worldwide and it is ideal for Refractory applications.

### OPTIONS:

- Variable speed 5 hp (4kW) 230 or 460 volt Eurodrive Varimot electric motor with starter
- 40 ft<sup>3</sup> (1.13m<sup>3</sup>) or 50 ft<sup>3</sup> (1.42m<sup>3</sup>) feed hopper with air operated radial discharge gate and air vibrator
- 1.5" (38mm) and 2" (50mm) hoses

