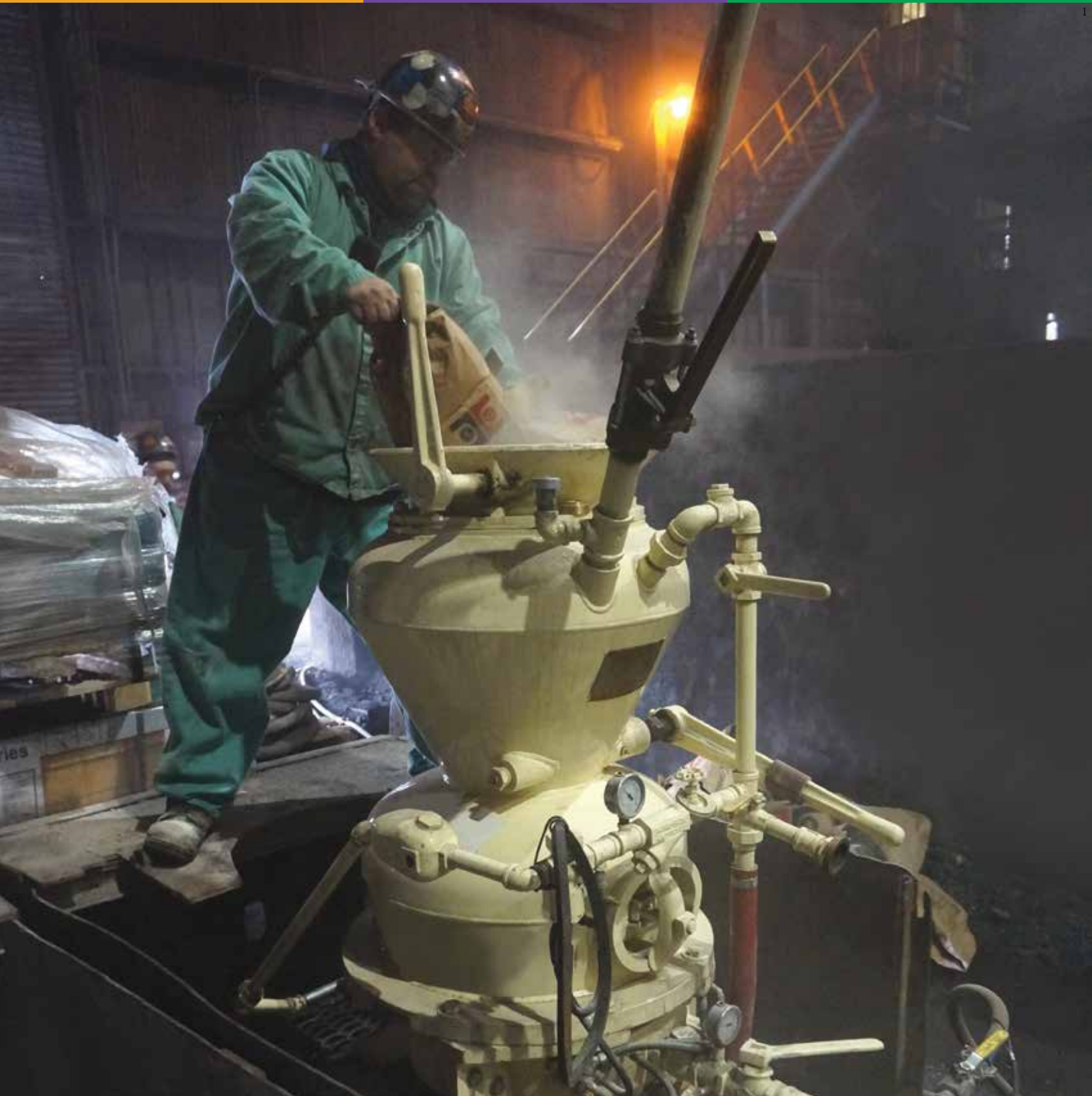


GUNNING MACHINES

REFRACTORY

UNDERGROUND

CIVIL



GUNNING MACHINES | PROVEN DRY-PROCESS TECHNOLOGY

Since the introduction of the first cement gun at the New York Concrete Show in 1910, Putzmeister has been the leader in the design, engineering and manufacturing of innovative and effective gunning equipment. Today, Putzmeister Shotcrete Technology is proud to bring you the world's most complete offering of solutions and equipment for sprayed concrete and mortar machines.

Incorporating proven technology and robust design, Putzmeister gunning machines are built to work hard day in and day out, year after year. Our innovative design allows for simple operation and minimal maintenance. And because of our insistence on quality materials and attention to detail at all steps of the manufacturing process, Putzmeister gunning machines have an extraordinarily long service life.

No matter what the jobsite requires, Putzmeister has a solution. Besides offering rotary, bowl, and pressure vessel styles, our high-performance gunning machines are available with various mounting options to accommodate the demands of virtually any job. And, of course, Putzmeister gunning machines are backed by a service team dedicated to keeping your equipment performing flawlessly.



AG 15 AUTOMATIC GUN | DRY PROCESS

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 through the outlet and into the delivery hose, providing a steady flow of material to the nozzle for even hydration. Pneumatic tire mounting is standard.

Options

- Air motor or hydraulic motor
- 1-1/2" (38mm) outlet diameter



PICCOLA | DRY PROCESS

The Putzmeister Piccola is built to the Swiss design with a vane air motor (250-600 cfm), flat hopper with bag breaker and screen, and 1-1/2" (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

- Variable speed electric motor, diesel engine, or no power (rig mounted)
- Rotor options including 12 round-half, 12 round-full, 9 round-full, pie-half, and pie-full
- Slanted hopper with screen
- Forklift skid or foam-filled rubber tire mounting
- Dust suppression system



N2/N3 PNEUMATIC GUNS | DRY PROCESS

Putzmeister's N-TYPE guns are a modern version of the original cement guns built by Allentown for more than 100 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 feedwheel, manual operated exhaust valve 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 ft (152m) vertically and 1,000 ft (305m) horizontally.

Options

- 1-7 rpm feedwheel
- Outlet diameters including 1-1/4" (32mm), 1-5/8" (41mm) and 2" (50mm)
- Forklift skid or rig mounting
- Feedwheel cover
- Bag breaker
- Air-operated exhaust valve



S1-10 SINGLE TANK GUN | DRY PROCESS

The S1-10 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 ft³ (2.27m³) capacity and comes standard with steel wheels.

Options

- Forklift skid mounting
- 1-1/4" (32mm) and 1-1/2" (38mm) hoses



S2-45 SINGLE TANK GUN | DRY PROCESS

The S2-45 Single Tank Gun has a unique feedwheel system and 1-1/2" (38mm) outlet diameter that allows the gun to deliver material smoothly and accurately over a range of granular sizes and moisture contents. Standard features include 45 ft³ (1.27m³) tank capacity, variable speed 5 hp (4kW) 460 volt electric motor with starter, and a structural forklift skid mounting frame for the gun. The S2-45 is in use worldwide and it is ideal for Refractory applications.

Options

- 50 ft³ (1.42m³) feed hopper with air-operated radial discharge gate and air vibrator (adds 80" (2,032mm) to height)
- 1-1/2" (38mm) and 2" (50mm) hoses



GRH 610 ROTARY GUN | DRY PROCESS

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 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

- Vane air motor
- Rotor options including 12 round-half, 12 round-full, 9 round-full, pie-half, and pie-full
- Slanted hopper with screen
- Forklift skid or foam-filled rubber tire mounting
- Dust suppression system



GM 060 ROTARY GUN | DRY PROCESS

The GM 060 Rotary Gun has had a worldwide reputation for its ruggedness and reliability since 1957. Specifically designed and engineered for high-volume, heavy construction dry-process shotcrete in Underground and Civil applications, it features a radial air motor (350-750 cfm), slanted hopper with screen and 9 round-hole rotor as standard. This machine requires little maintenance and is easy to operate.

Options

- Variable-speed electric motor, or diesel engine
- 2-1/2" (65mm) outlet diameter
- Pie-full rotor
- Flat hopper with screen
- Forklift skid or foam-filled rubber tire mounting
- Dust suppression system



Putzmeister Gunning Machine Specifications

Performance	AG 15	Piccola	GRH 610	GM 060	N2/N3	S1-10	S2-45
Maximum Volume Output	3 - 15 yd ³ /hr (2.30 - 11.50m ³ /hr)	1 - 6 yd ³ /hr (0.76 - 4.60m ³ /hr)	1 - 6 yd ³ /hr (0.76 - 4.60m ³ /hr)	4 - 12 yd ³ /hr (3.10 - 9.20m ³ /hr)	2 - 8 yd ³ /hr (1.50 - 6.10m ³ /hr)	—	1 - 6 yd ³ /min (0.76 - 4.60m ³ /min)
Horizontal Conveying Distance*	500'+ (152m+)	1,000'+ (305m+)	1,000'+ (305m+)	1,000'+ (305m+)	1,000'+ (305m+)	50' - 500' (15 - 152m)	50' - 500' (15 - 152m)
Vertical Pumping Distance*	100'+ (30m+)	200'+ (61m+)	200'+ (61m+)	200'+ (61m+)	500'+ (152m+)	500'+ (152m)	500'+ (152m)
Technical Information							
Process Type	Dry	Dry	Dry	Dry	Dry	Dry	Dry
Air Requirement	300 - 900 cfm	250 - 600 cfm	250 - 600 cfm	350 - 750 cfm	375 - 900 cfm	—	375 - 900 cfm
Optimum Rotor Speed	—	10 - 14 rpm	10 - 14 rpm	10 - 15 rpm	—	—	—
Outlet Diameter	2" (50mm)	1-1/2" (38mm)	1-1/2" (38mm)	2" (50mm)	1-1/2" (38mm)	—	1-1/2" (38mm)
Dimensions	w/deep bowl	w/flat hopper	w/flat hopper	w/flat hopper	—	on A-frame	—
Length	41" (1,041mm)	51" (1,245mm)	65" (1,651mm)	64" (1,626mm)	46" (1,168mm)	70" (1,778mm)	64" (1,630mm)
Width	33" (838mm)	32" (813mm)	33" (838mm)	30" (762mm)	46" (1,168mm)	44" (1,118mm)	58" (1,470mm)
Height	42" (1,067mm)	48" (1,219mm)	52" (1,321mm)	55" (1,397mm)	54" (1,372mm)	51" (1,295mm)	98" (2,490mm)
Weight (approx)	700 lbs (318kg)	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. They are to be used as a guide only and may be exceeded on specific projects.
 Specifications subject to change without prior notice. Weights vary with options selected. Photos for illustrative purposes only.
 Refer to Putzmeister Shotcrete Technology operational manuals for safe and proper equipment operation.



Not all parts are created equal. Putzmeister offers longer lasting, better performing parts under increased wear conditions. Our in-stock inventory includes more than 20,000 parts totaling more than 40 million dollars. This means greater savings and less downtime.

Putzmeister Shotcrete Technology's highly trained customer support group provides dedicated support to keep you operating at peak performance.

Authorized Distributor



Putzmeister
 SHOTCRETE TECHNOLOGY



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