



**Putzmeister**



# Shotcrete and Mortar Equipment

Durable, Mobile, Powerful

# Solutions for the surface industry

A properly prepared surface requires the expertise of a professional in combination with high quality, high performance tools. Known and respected in the wet-and-dry-process shotcrete industry for more than a century, Putzmeister Shotcrete Technology also provides equipment for the mortar industry.

Whether your surface needs encompass large or small construction sites, coarse or fine materials, or long or short delivery distances, Putzmeister Shotcrete Technology has the machine for the job. With several versions of each model available at a range of performance levels, Putzmeister's mortar product line offers job-proven productivity, reliability and ease-of-use.

Our professionals can work with you to choose the right machine for your application, including:

- Fireproofing
- Stucco
- Pipe and Manhole Relining
- EFIS
- Injection Work
- Pressure Grouting
- Concrete Repairs
- Plaster
- Cementitious Adhesive
- Reinforcement Mortar
- Pool Plastering
- Self-Leveling Underlayment (SLU)



# S5 Series — Rotar/Stator Pumps and Mixers

Advanced Technology, Better Features, Higher Productivity, Efficient, Trouble-Free Performance

Productive and long-lasting, our S5 series pumps and mixers are compact yet powerful, and can tackle a variety of materials with ease. Offering an array of capabilities, both the S5 gas and electric worm pumps have variable control. And can pump dry mix or wet mortar from bag or silo. The elite performance of our S5 electric versions is the result of four specially engineered variable frequency drive (VFD) technology. Count on these highly versatile Putzmeister units to help you perform at a higher level.

## S5 EV | Electric Version

The number one choice of asbestos abatement spray applicators in North America, our electric S5 offers even more features — special Variable Frequency Drive (VFD) technology for infinite control from zero to full output, variable speed motor with gear drive, variable speed remote control, reversing feature and more.



# S5 Series — Rotar/Stator Pumps and Mixers

## S5 GH | Gas Version

Primarily for outside plaster and stucco, this 20hp (15kW) gas version is also popular for pressure grout, vermiculite, swimming pool finish and pipeline refurbishment. This hydraulic drive offers the ease of fully variable output from zero to full volume and a reverse pump feature to relieve line pressure.



## TM 100 Mixer

Ideal for plaster, stucco, grouts and fireproofing materials, this highly versatile mixer features a paddle type mixing blade with rubber wipers and reversing feature for efficient mixing. Plus, it easily bolts on to the S5 EV for quick, convenient use.



S5 SERIES SPECIFICATIONS			
Performance	S5 EV (Electric)	S5 GH (Gas)	TM 100
Maximum Output*			
ft <sup>3</sup> /min	1.5 ft <sup>3</sup> /min	1.5 ft <sup>3</sup> /min	–
lpm	44 lpm	44 lpm	–
bags/hr	21 bags/hr	21 bags/hr	–
Maximum Pressure*	360 psi (25 bar)	360 psi (25 bar)	–
Max. Pumping Distance			
Horizontal	260' (80m)	260' (80m)	–
Vertical	195' (60m)	195' (60m)	–
Volume Control	Variable	Variable	–
Directional Control	Reversing	Reversing	Reversing
Technical Information			
Hopper Height	30" (762mm)	26" (660mm)	54.5" (1,384mm)
Hopper Outlet Diameter	2" (50mm)	2" (50mm)	–
Pump Size ·	2L88 (Super 2L6)	2L6	–
Mixer Capacity	–	–	5.5 ft <sup>3</sup> (156L)
Power			
208/230V	7.5 hp (5.5kW) Elec 60Hz	20 hp (15kW) Gas	3 hp (2kW) Elec 60Hz
Continuous Full Load Amp Draw @ 208V	42 amps 1Ø	–	18 amps 1Ø
Air Compressor	10 cfm (283L/min), 2hp(1.5kW) motor, 208/230V60Hz	10 cfm (283L/min)	–
Continuous Full Load Amp Draw @ 208V	12 amps 1Ø	–	–
Dimensions			
Length	95.5" (2,426mm)	107" (2,718mm)	46" (1,168mm)
Width	28.5" (724mm)	28.5" (724mm)	28" (711mm)
Height	31" (788mm)	35" (889mm)	32" (813mm)
Weight (approx)	800 lbs (363kg)	750 lbs (340kg)	550 lbs (250kg)

\* These figures will vary due to differences in mix design, line size and job site conditions. Full pressure and volume cannot be attained simultaneously. All specifications are subject to change without notice.

· Additional pump sizes available, please consult factory.

# MP 25 — Plaster and Mortar pump

## MP 25<sup>MIXIT</sup> | Dry Process

### MP 25<sup>MIXIT</sup> — High-performance, Low-cost

MP25 has been well-known for many years for its unrestricted range of applications and the easy disassembly of the machine.

Being a typical Putzmeister mixer pump, you can completely disassemble the MP25 with effort and ease. The modular groups can then be easily loaded into a car or carried up to the upper story on the construction site. There the hoses are connected and work can begin!

With a conveying performance of up to 25 l/min (40 l/min Export version), the MP 25 offers enough performance for your requirements on the construction site. The well-proven low-wearing "PowerPump" also contributes considerably toward this.

The MP25 outperforms other machines in the industry because it does not create a large dust cloud. It can be drained to almost 100% without any danger of dust and segregation. The result is a better mortar quality and less dust.

- Compact design
- Perfect for smaller jobs or as a spare machine
- Ideal for ground coat plaster, adhesive and reinforcement mortar, refractory mortars, and texturing plasters
- Maximum output of up to 11 gal/min (40 lpm)
- Easy to assemble onsite — without tools — by one person
- Handles all pumpable dry mixed mortars



#### MP 25<sup>MIXIT</sup> SPECIFICATIONS

Performance	MP 25 <sup>MIXIT</sup>	MP 25 <sup>MIXIT</sup> Export
Conveying Performance	up to 6.6 gal/min (25 lpm)	up to 11 gal/min (40 lpm)
Conv. Pressure (D5 short)	580 psi (40 bar)	290 psi (20 bar)
Technical Information		
Maximum Conveying Distance*	131' (40m)	98' (30m)
Maximum Vertical Height*	49' (15m)	49' (15m)
Power		
Mixing Pump Drive	el. Motor — 7.4 hp (5.5kW), 400 V, 50 Hz	el. Motor — 7.4 hp (5.5kW), 400 V, 50 Hz
Drive Star-wheel	el. Motor, 1.5 hp (1.1 kW)	el. Motor, 1.5 hp (1.1 kW)
Waterpump	3.4m <sup>3</sup> /h, 1.1 hp (0.78 kW)	3.4m <sup>3</sup> /h, 1.1 hp (0.78 kW)
Compressor	53 gal/min (200 l/min), 0.733 hp (0.55 kW)	53 gal/min (200 l/min), 0.733 hp (0.55 kW)
Hopper Content	30 gal (115 l)	30 gal (115 l)
Dimensions		
Length	52" (1,324mm)	52" (1,324mm)
Width	29" (728mm)	29" (728mm)
Height	57" (1,443mm)	57" (1,443mm)
Weight (approx)	5,291 lbs(240kg)	5,291 lbs(240kg)
Accessories		

Includes ID 35 mortar hose, air hose, spray gun, hose adapter, cleaning tool and suction hose with filter.

\* The delivery rate is theoretical and depends on the pump pressure.

# SP 11<sup>LMR</sup> Plastering pump

## SP 11<sup>LMR</sup> | Wet Process

The specialist machine for all premixed dry mortar and site-made mixes

The Putzmeister SP 11<sup>LMR</sup> worm pump has been specially designed to meet the needs for plastering, filling and grouting work. The exceptional capacities of the mixer and hopper provide the necessary resources for a wide variety of tasks, while the machine's low tow bar load means it can be easily and comfortably maneuvered. The SP 11<sup>LMR</sup> offers lasting value—thank to its lightweight engine hood which can withstand even the toughest conditions on site—thus making it very economical.

These are all excellent reasons for choosing a Putzmeister plastering machine, especially if you use site-made mixes or prebagged interior and external plasters, monocoat, fire-proofing mortar, basecoat plaster, lightweight masonry mortar, ornamental mortars as well as filling and grouting work.

- Compact design
- Ideal for site mixes or bagged interior and exterior mixes
- Maximum outputs up to 2.12 ft<sup>3</sup>/min (60 lpm)
- Easy to use standard swivel mixer
- Suitable for both low slump and free-flowing mixes
- Sound isolation for quieter operation
- Conveniently operated through the control panel



### SP 11<sup>LMR</sup> SPECIFICATIONS

Performance	
Version	Ligting mixer
Pump Type	2L6
Delivery Pressure	363 psi (25 bar)
Theoretical Delivery Rate*	1.3–16 gal/min (5–60 lpm)
Horizontal Delivery Distance**	197' 60m
Vertical Delivery Distance**	131' 40m
Compressor	2-cylinder compressor 160 gal/m (400 l/min), 101 psi (7 bar)
Lifting Mixer	48 gal (180 l)
Conveyor Hopper	58 gal (220 l)
Engine	3-cylinder Kubota, 22hp (16.3 kW) at 2,600 rpm
Chassis	unbraked, suitable for road use
Filling Height	31.5" (800mm)
Maximum Particle Size	0.2" (6mm)
Dimensions	
Length	128" (3,260mm)
Width	56" (1,420mm)
Height	46" (1,160 mm)
Weight (approx)	1,654 lbs (750kg)

\* The delivery rate is theoretical and depends on the pump pressure.

\*\* The data is based on experience and is dependent on the materials used.

# Piccola — gunning machine

## 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 1½" (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.

- Versatile, robust, easy to operate
- Requires minimal maintenance
- Output up to 6 yd<sup>3</sup>/hr (4.6 m<sup>3</sup>/hr)
- Standard 1.5 in (38mm) outlet diameter is used widely in refractory applications

### Options include

- 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



### PICCOLA SPECIFICATIONS

Performance	
Maximum Volume Output	1–6 yd <sup>3</sup> /hr (0.76–4.60 m <sup>3</sup> /hr)
Horizontal Conveying Distance*	1,000'+ (305m+)
Vertical Pumping Distance*	200'+ (61m+)
Technical Information	
Process Type	Dry
Air Requirement	250–600 cfm
Optimum Rotor Speed	10–14 rpm
Outlet Diameter	1½" (38mm)
Dimensions	
	w/flat hopper
Length	51" (1,245mm)
Width	32" (813mm)
Height	48" (1,219mm)
Weight (approx)	800 lbs (363kg)

\*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 operational manuals for safe and proper equipment operation.



# Magnum — combination mixer pump

## Magnum | Wet Process

The Powercreter® Magnum is the most versatile concrete repair pump manufactured by Putzmeister. It's ideal for wet-process shotcrete in Civil applications. The Magnum has a powerful 46 hp (34 kW) Deutz diesel engine and conveys slow slump concrete and packaged high-performance materials over long distances.

- 5 ft<sup>3</sup> (142L) mixer capacity
- Powerful 46 hp (34 kW) Deutz diesel engine
- Can handle up to ½ in (13mm) aggregate

### Options include

- Mounted chemical dosing pump
- Output pressure adjustment for grouting
- Radio remote
- Forklift skid frame mounting



### MAGNUM SPECIFICATIONS

<b>Performance</b>	
Maximum Volume Output*	5 yd <sup>3</sup> /hr (4m <sup>3</sup> /hr)
Maximum Material Pressure*	1,800 psi (124 bar)
<b>Technical Information</b>	
Process Type	Wet
Mixer Capacity**	5 ft <sup>3</sup> (142L)
Mixer Fill Height	50" (1,270mm)
Hopper Capacity	7 ft <sup>3</sup> (198L)
Hopper Outlet Diameter	3" HD (76mm HD)
<b>Power</b>	
Manufacturer's Model	Deutz Diesel D2011LO3i
Horsepower	46 hp (34kW)
Fuel Tank Capacity	10 gal (38L)
<b>Mounting</b>	
Style	Single-axle trailer
Brakes	Electric
<b>Dimensions</b>	
Length	132" (3,352mm)
Width	79" (2,006mm)
Height	53" (1,346mm)
Weight (approx)	3,500 lbs (1,588kg)

\* Based on rotor and speed, material, conveying distance and air available.

\*\* Mixer capacity is based on an average low cement refractory castable density of 165 lb/ft<sup>3</sup>.

# Thom-Katt — Shotcrete/Concrete Pump

Thom-Katt® TK 7 | Wet Process



Thom-Katt® TK 10 | Wet Process



This proven pump fills the void between small-line mechanical ball valve pumps and 5–6 in (127–152 mm) cylinder-diameter concrete pumps. The swing-tube design gives operator the benefit of reversing to relieve pressure due to plugs, pumping difficult low-slump or fiber mixes and lower maintenance costs. The 3-inch (76 mm) material cylinders and variable, smooth hydraulics allow extremely controlled low output for specialized applications.

- Delivers up to 2,085 psi (144 bar) material pressure
- Maintains output pressure when reducing to smaller-diameter conveying lines
- Uses state-of-the-art electronic pump controls and hydraulic valves

## THOM-KATT SPECIFICATIONS

	TK 7	TK 10
<b>Performance</b>		
Maximum Volume Output†	7 yd <sup>3</sup> /hr (4.6m <sup>3</sup> /hr)	7 yd <sup>3</sup> /hr (4.6m <sup>3</sup> /hr)
Maximum Concrete Pressure	1,240 psi (85 bar)	2,085 psi (144 bar)
Maximum Aggregate Size	0.75" (19mm)	0.75" (19mm)
<b>Technical Information</b>		
Material Cylinders	2"x24" (51x610mm)	3"x24" (76x610mm)
Maximum Strokes Per Minute	36	36
Variable Volume Control	0 to full	0 to full
S-Valve (cast)	3" x 3" (76x76mm)	3" x 3" (76x76mm)
Number of Shift Cylinders	1	1
Hydraulic Tank Capacity	28 gal (105L)	37 gal (140L)
Hopper Height	42.1" (1,070mm)	48" (1,219mm)
Hopper Capacity	7.8 cu ft (220L)	8 cu ft (227L)
Outlet Diameter	3" HD (76mm)	3" HD (76mm)
<b>Engine</b>		
Manufacturer's Model (all water-cooled except TK20, TK40)	TEFC Motor	Deutz D2011L04i
Horsepower	30 hp (22kW)	61 hp (45kW)
Fuel Tank Capacity	–	15 gal (56L)
<b>Trailer</b>		
Axle	–	Single
Axle Capacity	–	5,200 lbs (2,258kg)
Tires/Load Range	–	ST 225/75R15D
Brakes	–	Electric
Outriggers	–	Manual
<b>Dimensions</b>		
Length	87.4" (2.22m)	148" (3.75m)
Width	37.2" (0.94m)	64" (1.62m)
Height	54" (1.37m)	62" (1.57m)
Weight (approx.)	2,360 lbs (1,070kg)	4,000 lbs (1,814kg)

# MRV-2200 Shear Force — Pan Mixer

## MRV-2200 Shear Force Pan Mixer | Wet Process

Putzmeister has engineered the MRV-2200 Shear Force pan mixer to be high shear, high energy and extremely efficient. The MRV-2200 Shear Force is ideal for wet-process Refractory applications and is field-proven to provide faster mixing times. The machine's mixer discharge component easily fits over the hopper of a trailer- or forklift-mounted pump. An electric motor directly drives a heavy-duty planetary gear reducer, which drives a carousel-type arrangement of six mixing paddles.

- Field-proven to provide faster mixing times
- Engineered to be high-shear, high-energy and extremely efficient



### MRV-2200 SHEAR FORCE SPECIFICATIONS

Technical Information	
Process Type	Wet
Mixer Capacity*	2,200 lbs (1mt)
Mixer Fill Height	88" (2,235mm)
Hopper Outlet Diameter	12" x 16" (305mm x 406mm)
Power	
Manufacturer's Model	TEFC Electric Motor 460v/60hz
Horsepower	40 hp (30kW)
Mounting	
Style	4 adjustable telescoping legs
Brakes	-
Dimensions	
Length	103" (2,616mm)
Width	91" (2,311mm)
Height	88" (2,235mm)
Weight (approx)	6,300 lbs (2,858kg)

\* Mixer capacity is based on an average low cement refractory castable density of 165 lb/ft<sup>3</sup>.

## Genuine Putzmeister Parts

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.

## Customer Support and Service

Putzmeister proudly offers a dedicated Customer Support Group to provide assistance, answer questions, and help you order parts. Count on 24/7 support from Putzmeister's highly trained technical support team to keep your equipment operating smoothly.

Parts Orders, Services & Customer Support  
7 am – 7 pm CST  
(800) 890-0269

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