

# Combination Mixer-Pumps & Mixer

Wet-Process Shotcrete Models

**Allentown**  
SHOTCRETE TECHNOLOGY

A **Putzmeister** COMPANY

Refractory

Civil



- Wet-process pumps
- Versatile across multiple applications
- Smooth material delivery
- High performance over long distances

**COMBINATION  
MIXER-PUMPS &  
MIXER**



## ▶ POWERCRETER® MAGNUM

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

### OPTIONS:

- Electric power
- CE certification
- Auto-lube system
- Pressure reducing valve
- Pressure washer
- Four-way forklift frame mounting option
- Chemical dosing pump



## ▶ MR-450 MIXER-PUMP

The Allentown MR-450 features its unique 3-inch swing-tube, which cycles in one-tenth of a second to provide smooth flow into the pipeline. The MR-450 is ideal for Refractory applications. This machine's hopper design insures excellent cylinder fillage and is very easy to clean out through a bottom drop door.

### OPTIONS:

- Lister LP3W, 3-cylinder, 29 hp (22kW) @ 3,000 rpm, water-cooled diesel engine
- Remote on-off control pendant with 100' (30m) cable
- Chemical dosing pump (mounted)
- Pressure washer
- Pneumatic tire (third wheel) on front
- Four-way forklift frame



## ▶ MRV-2200 SHEAR FORCE PAN MIXER

Allentown 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.

### OPTIONS:

- Pressure washer



## ▶ MR-2200 MIXER-PUMP

Redesigned with new and improved features, the MR-2200 features added horsepower, a high shear high-efficiency mixer and innovative micro-processor controls. This machine is ideal for wet-process shotcrete in Refractory applications. The machine has the proven performance of a Powercreter® 10 and a one-ton pan-type mixer in a configuration that is convenient, practical and functional.

### OPTIONS:

- Electric power
- Auto-lube system
- Hydraulic surge brakes
- Chemical dosing pump



## ▶ MR-3300 MIXER-PUMP

The MR-3300 is an exciting and extremely versatile development in refractory placement technology. The performance and reliability of this unit is unmatched by any other machine in the world today. The MR-3300 is ideal for wet-process shotcrete in Refractory applications.

### OPTIONS:

- Electric Power
- 6-position carousel mixer
- Hydraulic surge brakes
- Spare tire
- CE certification
- Chemical dosing pump



## ▶ MR-1T

This durable and reliable mixer-pump is invaluable to refractory material producers, contractors and plant owners for its small footprint and maneuverable design. It can set up in confined working environments, move from job to job easily and requires little space for storage. Using the proven reliable Putzmeister S-valve with splined shaft, the MR-1T offers consistent performance. Its removable hopper extension promotes easy cleanout and access to parts for maintenance.

### OPTIONS:

- Electric power
- Output pressure adjustment for grouting
- Hydraulic surge brakes
- Auto reverse brake lockout (hydraulic brakes only)
- Aluminum wheels (tandem)
- Skid frame mounting
- Four-way forklift frame mounting option
- Chemical dosing pump





# Combination Mixer-Pumps & Mixer Specifications

Mixer Pumps						Mixer
Performance	Magnum	MR-450	MR-2200	MR-3300	MR-1T	MRV-2200 Shear Force
Max volume output*	5 yd <sup>3</sup> /hr (3.8m <sup>3</sup> /hr)	5 yd <sup>3</sup> /hr (3.8m <sup>3</sup> /hr)	7 yd <sup>3</sup> /hr (4.6m <sup>3</sup> /hr)	17 yd <sup>3</sup> /hr (13m <sup>3</sup> /hr)	7 yd <sup>3</sup> /hr (4.6m <sup>3</sup> /hr)	–
Max material pressure*	1,750 psi (120 bar)	1,750 psi (120 bar)	2,085 psi (144 bar)	2,085 psi (144 bar)	2,000 psi (138 bar)	–
Technical Information						
Process type	Wet	Wet	Wet	Wet	Wet	Wet
Mixer capacity**	5 ft <sup>3</sup> (142L)	450 lbs (220kg)	2,200 lbs (1mt)	3,300 lbs (1.5mt)	1,500 lbs (680kg)	2,200 lbs (1mt)
Mixer fill height	50" (1,270mm)	51" (1,295mm)	108" (2,743mm)*	108" (2,743mm)*	99" (2,515mm)	88" (2,235mm)
Hopper capacity	7 ft <sup>3</sup> (198L)	5 ft <sup>3</sup> (142L)	18 ft <sup>3</sup> (510L)	23 ft <sup>3</sup> (651L)	12 ft <sup>3</sup> (340L)	–
Hopper outlet diameter	3" (76mm) HD	3" (76mm) HD	3" (76mm) HD	4" (102mm) HD	4" (102mm) HD	12" x 16" (305mm x 406mm)
Power						
Manufacturer's model	Deutz Diesel F3L2011	TEFC electric motor 3/60/460	John Deere Diesel 4045T	John Deere Water-Cooled Diesel 6068T	Deutz Water-Cooled Diesel TCD2012L04m	TEFC electric motor 3/60/460
Horsepower	46 hp (34kW)	30 hp (22kW)	115 hp (86kW)	155 hp (116kW)	100 hp (75kW)	40 hp (30kW)
Fuel tank capacity	10 gal (38L)	–	42 gal (159L)	42 gal (159L)	38 gal (132L)	–
Mounting						
Style	Single-axle trailer	Single-axle trailer	HD Tandem-axle trailer	HD Tandem-axle trailer	HD Tandem-axle trailer	4 adjustable telescoping legs
Brakes	Electric	Electric	Electric	Electric	Electric	–
Dimensions						
Length	132" (3,352mm)	132" (3,352mm)	200" (5,080mm)	210" (5,334mm)	184" (4,674mm)	103" (2,616mm)
Width	79" (2,006mm)	79" (2,006mm)	85" (2,159mm)	90" (2,286mm)	83" (2,108mm)	91" (2,311mm)
Height	53" (1,346mm)	53" (1,346mm)	100" (2,540mm)	107" (2,178mm)*	104" (2,642mm)*	88" (2,235mm)
Weight (approx)	3,500 lbs (1,588kg)	3,200 lbs (1,451kg)	11,000 lbs (4,990kg)	12,700 lbs (5,760kg)	8,300 lbs (3,765kg)	6,300 lbs (2,858kg)

\*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>.

\*A small number of components can be removed to achieve a lower height for container shipment. MR-3300: 101" (2,565mm), MR-1T: 89" (2,253mm)

\* Mixer fill height is measured to the top of the bag breaker.

Specifications subject to change without prior notice. Photos are for informational purposes only and may contain optional equipment.

Weights vary with options selected. Photos for illustrative purposes only. Refer to Allentown operational manuals for safe and proper equipment operation.

For additional available options, please contact the factory.



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