THE RIGHT FIT FOR YOUR FLEET

Putzmeister’s most popular truck-mounted boom pump size, the 38Z-Meter, offers Multi-Z boom flexibility for a multitude of job sites and the reach to place concrete exactly where you want it. Compact outriggers give you quick setup in tight locations. This is the only four-section, 121-foot 9-inch Multi-Z boom on the market with X-style outriggers. Specially engineered to help contractors extend their pumping season, this three-axle unit can be ordered as a frost law weight compliant model featuring a tag axle that can be removed when frost laws are not in effect.

A NEW STANDARD OF INNOVATION AND EXCELLENCE

ERGONIC® SYSTEM BENEFITS

ERGONIC PUMP CONTROL SYSTEM (EPS)

The computer-aided EPS constantly monitors and regulates the operation of the concrete pump and truck engine. The electronic regulation of this system means the pump always runs at peak performance. EPS results in more productivity and greater efficiency with less for the operator to worry about.

ERGONIC OUTPUT CONTROL (EOC)

Integral to EPS, EOC reduces fuel consumption, wear and noise. EOC automatically adjusts the engine speed to the minimum required for the delivery rate specified by the operator on the remote control.

ERGONIC GRAPHIC DISPLAY (EGD)

Putting the operator in control of success, the color EGD provides EPS monitoring from one convenient location. The simple-to-use EGD shows a quick and clear visual display of important system information and allows the operator to set individual pumping performance parameters.
FREE FLOW HYDRAULICS IN A CLOSED LOOP SYSTEM

The pumps at the heart of Putzmeister’s free flow pumping system are bi-directional, variable displacement piston pumps. Depending on stroke, oil flows in a closed loop from either port A or port B on the pump to the hydraulic cylinders.

Depending on the specific pump cell size, up to 20% of the oil leaves the simple closed loop system during each stroke through a flushing valve on the main pump and cycles to a cooler before it returns to the hydraulic oil tank. Removing and cooling only this minimal amount of oil is possible because, unlike an open loop system, the oil flows freely without passing through any unnecessary valves that can generate heat.

The closed loop also requires far less oil to run the system, as a larger reservoir is not necessary to cool all of the oil.

Speed and timing are also critical to superior performance. Quicker and more responsive than a hydraulic signal, the electrical system on a Putzmeister pump minimizes the time it takes to change direction at stroke end.

An electrical signal precisely synchronizes the drive cylinders with the accumulator system that controls the S-Valve in the hopper. Reserved energy stored in a nitrogen bladder is sent as a supercharged blast of oil at precisely the right moment to facilitate a smooth and fast shift of the S-Valve from one position to another.

KEY ADVANTAGES OF PUTZMEISTER’S FREE FLOW HYDRAULICS

- Changes in material pressure in the delivery line are reduced to ensure smooth pumping and a consistent concrete flow.
- The intelligent design minimizes wear-inducing pressure peaks, increases service life and makes our pumps extremely powerful.
- Rapid change-over of the stroke means higher outputs, a smoother flow of concrete and less boom bounce.
- There is greater pump output due to the efficient use of all available energy.
BOOM
• 121' 9" (37.11m) vertical reach
• Low unfolding height
• Versatile 4-section Multi-Z boom
• Manual lubrication, optional auto lubrication
• Integrated work lights

BOOM OPERATION AND CONTROL
• Fully proportional HBC radio remote
• Smooth and precise boom positioning at greater distances
• Fully proportional cable remote with 130' (40m) cable
• Gauge Port Central (GPC)
• Modular Boom Controls (MBC)
• 24V electrical system

DELIVERY LINE
• Equipped with 5" (125mm) single-layer delivery line on all boom sections providing efficient concrete delivery
• P1IH single-layer deck pipe with PPT turret elbow
• Easy lift-out brackets for simple delivery line replacement
• Standardized elbows and straight pipe sections
• Common component availability and easy replacement

PEDESTAL
• Rack and pinion slewing system for better weight distribution, smoother boom rotation and the potential for greater net reach
• Fully integrated pedestal design absorbs all forces
• Easy access large single-suction filter with indicator gauge
• Condensation trap in the hydraulic tank for water collection
• Two spacious decks for convenient pipe and hose storage
• Manual lubrication, optional auto lubrication
• Side-mounted aluminum toolboxes
• Integrated work lights
• Breakaway rear steps

OUTRIGGERS
• Quick setup on restrictive job sites
• Fully hydraulic outriggers with integral cylinders
• “X” brace outrigger system
• Front outriggers extend diagonally out and down
• Rear outriggers swing out and extend down
• Four outrigger pads in two side compartments
• Bubble level indicators
• Optional auxiliary fuel tank in outrigger
• Optional water tank in outrigger
• Optional One-Sided Support (OSS) outriggers 180°

CONCRETE PUMP
• Ergonic Pump System (EPS) with color Ergonic Graphic Display (EGD)
• Free flow hydraulic system for smooth, controllable pumping
• Multi-piece piston cup design
• Hard-chromed material cylinders
• Redundant proximity sensor system with function indicators replaced by display on EGD
• Fully adjustable volume control for very slow pumping with full concrete pressure and boom speed
• Modular pump control box

EZ CLEAN OUT RS 909 HOPPER
• Large 19.4 ft³ (550L) capacity
• Hardox mixer paddle
• Grate-mounted vibrator
• Hopper grate RFID safety switch
• Hinged splash guard covers hopper during transit
• Low hopper height allows easy discharge from a mixer truck
• Automatic lubrication
• Hopper work light

S-VALVE
• Ideal for high pressure applications and harsh mixes
• Hard-faced S-Valve
• Gradual 9" to 7" (230 to 180mm) reduction
• Thick-walled valve construction
• Lasting wear over years of use

CLEAN OUT
• Fast and easy clean out
• 406 psi (28 bar) hydraulically-driven water pump
• Wash out kit and hose
• Integrated 185 gallon (700L) water tank

The PRO-VANTAGE® Warranty Plan extends the coverage on all Putzmeister BSF boom pumps for a total of 36 months or 6,600 hours at no extra charge. Domestic only.
Robust and more resilient, Putzmeister’s “smart design” boom incorporates welding seams below the edge of maximum stress. The boom is engineered to offer the flexibility to adapt to different loads and features more straight pipe for a less stressful concrete flow and longer wear on parts. The Multi-Z configuration handles space restrictive areas and can pump even if the boom is not fully extended.

The 38Z-Meter boom features a simple mechanical rack and pinion design for improved weight distribution and easy serviceability. Specially designed teeth in the system offer smooth rotation and prevent backlash in the swing gears.

Fully removable, Putzmeister’s modular bolt-on flatpack and hydraulic system combine versatility and servicing convenience. This simple design allows for cost-effective, minimally labor intensive pump cell replacement for upgrades, repairs or as part of a maintenance program.

Putzmeister’s robust, yet lightweight EZ Clean Out RS 909 hopper is engineered for performance and durability. Offering 19.4 ft³ (550L) capacity, the hopper uses one remixer paddle motor and grate-mounted vibrator. An innovative RFID safety switch incorporated in the hopper disables the machine when the grate is opened.

Switch gears and save with Putzmeister’s patented Econo-Gear™. The exclusive design allows the Mack chassis engine to run at a lower rpm, achieving less stress on wear parts, lower noise levels and reduced fuel consumption. Econo-Gear makes a significant impact on job site safety and profitability with an estimated 10-15% savings.
38Z-METER TRUCK-MOUNTED SPECIFICATIONS

Length 39' 3" (11.97m)
Width 8' 2" (2.49m)
Height 12' 11" (3.94m)
Wheelbase 215" (5,461mm)
Front axle weight 19,400 lbs (8,800kg)
Rear axle weight 37,400 lbs (17,000kg)
Approx total weight 56,800 lbs (25,800kg)

Based on Model MACK MRU 613 with .16H pump cell.
Weights are approximate and include pump, boom, truck, driver and some fuel. Varies with options selected.
Dimensions will vary with different truck makes, models and specifications.

BOOM SPECIFICATIONS | MULTI-Z DESIGN

Height & Reach
Vertical reach 121' 9" (37.11m)
Horizontal reach 108' 7" (33.10m)
Reach from front of truck* 101' 1" (30.81m)
Reach depth 80' 1" (24.41m)
Unfolding height 28' 7" (8.69m)

4-Section Boom
1st section articulation 103°
2nd section articulation 180°
3rd section articulation 245°
4th section articulation 233°
1st section length 28' 6" (8.69m)
2nd section length 25' 3" (7.70m)
3rd section length 27' 7" (8.41m)
4th section length 27' 3" (8.31m)

General Specs
Pipeline Size (ID) metric ends 5" (125mm)
Rotation 365°
End hose — length 10' 0" (3.00m)
End hose — diameter 5" (125mm)
Outrigger spread L - R — front 20' 8" (6.30m)
hydrodraulically extend out & down
Outrigger spread L - R — rear 21' 3" (6.50m)
hydrodraulically swing out & extend down

PUMP SPECIFICATIONS 38Z.16H  38Z.18H LS
Output
— rod side 210 yd³/hr (160m³/hr)
— piston side 141 yd³/hr (108m³/hr) 238 yd³/hr (182m³/hr)
Pressure
— rod side 1,233 psi (85 bar)
— piston side 1,885 psi (130 bar)• 1,233 psi (85 bar)

Material cylinder diameter 9" (230mm) 10" (250mm)
Stroke length 83" (2,100mm) 83" (2,100mm)
Maximum strokes per minute
— rod side 31
— piston side 21 29

Volume control 0-Full O-Full
Vibrator Standard Standard
Hard-chromed material cylinders Standard Standard
Hydraulic system Free Flow Free Flow
Hydraulic system pressure 5,075 psi (350 bar) 5,075 psi (350 bar)
Differential cylinder diameter 5.5" (140mm) 5" (125mm)
Rod diameter 3.1" (80mm) 3.1" (80mm)
Maximum size aggregate 2.5" (63mm) 2.5" (63mm)
Water tank 185 gal (700L) 185 gal (700L)

Maximum theoretical values listed.
* Applies to units mounted on PMA stock truck — MACK MRU 613
• Standard delivery line system rated at max line pressure of 1,233 psi (85 bar)