YOU TALK. WE LISTEN. 42Z-METER DELIVERS.

Designed with the operator in mind, the new Putzmeister 42Z delivers greater payload capacity, and longer pump life to increase job site performance.

Weighing in at 66,000 pounds and with thirty percent more deck space, there is plenty of capacity for job site equipment, water and fuel, as well as space to comfortably move around the deck.

The pedestal sub-frame bolt connections make the frame more flexible to adjust to torsion from pump force, minimizing cracking and providing longer pump life.

No matter how challenging the task or difficult the constraints of the job site, the Putzmeister 42Z’s improved lightweight design is maneuverable and efficient under almost any condition.

DO MORE FOR LESS

HIGHLY EFFICIENT HYDRAULIC OIL SYSTEM

The hydraulic system on the 42Z-Meter has an improved filtration system, uses less oil and has fewer parts. Cleaner oil improves pump functioning and reduces maintenance intervals.

IMPROVED PIPE LAYOUT

Improved pipe layout, with single bend in turret and only two elbow sizes — 45-degree and 90-degree — increases parts commonality and reduces wear.

FLEXIBLE PEDESTAL

By improving the pedestal construction with a bolt connection and simplifying the turret design, you can count on less down time and lower maintenance costs.
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.

Unlike an open loop system, the oil flows freely without passing through any unnecessary valves that can generate heat. Thus, the closed loop requires far less oil to run the system, as a larger reservoir is not necessary to cool all of the oil. In addition, return oil can be cycled directly through the main kidney filter instead of going back to the tank, keeping it in the filtered state preferred by the hydraulic components for long life and dependable operation.

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**
- 136' 6" (41.60m) vertical reach
- Low unfolding height
- Versatile 5-section Z-Fold 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 remote with 130' 0" (40m) cable
- Gauge Port Central (GPC)
- Modular Boom Controls (MBC)
- 24V electrical system

**DELIVERY LINE**
- Equipped with 5" (125mm) twin-pipe delivery line on all boom sections providing efficient concrete delivery
- ESSER 900 twin-pipe deck pipe with 900 turret elbow
- Bolt-on easy lift-out brackets for simple delivery line replacement
- Standardized 45˚ and 90˚ elbows and straight pipe sections
- Improved pipe layout reduces pipe wear
- Common component availability and easy replacement

**PEDESTAL**
- Rotation bearing and access openings simplify turret pipe changes
- Sub-frame’s bolted connections absorb all forces
- Easy access large single-suction filter with indicator gauge
- Efficient hydraulic oil system
- Condensation trap in the hydraulic tank for water collection
- Increased deck space and payload capacity for pipe and hose storage
- Manual lubrication, optional auto lubrication
- Side-mounted aluminum toolboxes
- Integrated work lights
- Breakaway rear steps

**OUTRIGGERS**
- Two-part outriggers for easy maintenance
- 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
- One-Sided Support (OSS) system featuring a 120˚ working range

**CONCRETE PUMP**
- Ergonomic® Pump System (EPS) with color Ergonomic Graphic Display (EGD)
- Choose from high pressure or high volume with the same setup
- Free flow hydraulic system for smooth, controllable pumping
- Multi-piece piston cup design
- Hard-chromed material cylinders
- Redundant proximity sensor system with function indicators
- 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
- Hard-faced remixer paddle
- Grate-mounted vibrator
- Multi-piece grate featuring bolted connections
- Hopper grate RFID safety switch
- Hinged splash guard covers hopper during transit
- Lower hopper height allows easy discharge from ready mix truck
- Automatic lubrication
- Integrated work lights

**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

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**42Z-METER | TRUCK-MOUNTED CONCRETE BOOM PUMP STANDARD FEATURES**

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.
From pedestal construction and flatpack connections to pipe hanger brackets and hopper grate, many of the critical wear areas have been improved with bolt connections. Simplifying the design and allowing for torsion forces to easily pass through, the bolt connections provide extended service life and easier maintenance.
42Z-METER TRUCK-MOUNTED SPECIFICATIONS

- Length: 37' 5" (11.41m)
- Width: 8' 2" (2.50m)
- Height: 12' 8" (3.87m)
- Wheelbase: 250" (6350mm)
- Front axle weight: 29,991 lbs (13,604kg)
- Rear axle weight: 36,274 lbs (16,454kg)
- Approx total weight: 66,265 lbs (30,058kg)

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 | Z-FOLD DESIGN

- Height & Reach
  - Vertical reach: 136' 6" (41.60m)
  - Horizontal reach: 122' 5" (37.30m)
  - Reach from front of truck*: 113' 2" (34.50m)
  - Reach depth: 101' 8" (31.00m)
  - Unfolding height: 28' 3" (8.60m)

- 5-Section Boom
  - 1st section articulation: 90°
  - 2nd section articulation: 180°
  - 3rd section articulation: 180°
  - 4th section articulation: 246°
  - 5th section articulation: 235°
  - 1st section length: 24' 11" (7.60m)
  - 2nd section length: 21' 0" (6.40m)
  - 3rd section length: 23' 7" (7.20m)
  - 4th section length: 26' 7" (8.10m)
  - 5th section length: 27' 2" (8.30m)

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: 24' 7" (7.50m)
  - hydraulically extend out & down
- Outrigger spread L - R — rear: 25' 11" (7.90m)
  - hydraulically swing out & extend down

PUMP SPECIFICATIONS

- Output — rod side: 210 yd³/hr (160m³/hr)
- Output — piston side: 146 yd³/hr (112m³/hr)
- Stroke length: 83" (2,100mm)
- Max strokes per minute — rod side: 31
- Max strokes per minute — piston side: 21

Volume control: 0-Full
Vibrator: Standard
Hard-chromed material cylinders: Standard
Hydraulic system: Free Flow
Hydraulic system pressure: 5,075 psi (350 bar)

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)