

Putzmeister

BOOM PUMP

ADVANTAGE



Convenience and Control

The Frequency Hopping system on the standard HBC proportional radio remote ensures minimal interference with other frequency transmitters. Radiomatic Power Boost further enhances reception quality with a 50-100% increase in signal power. A fully proportional cable remote is also standard. Unlike other remote control systems, the radio and cable remote systems are completely independent, offering redundancies to ensure complete proportional operation with either the radio or cable remote in the event of a problem.



Fuel Economy

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. Even when pumping a full load, Econo-Gear makes a significant impact on job site safety and profitability with an estimated 10-15% savings.



Modular Flatpack

Fully removable, Putzmeister's modular bolt-on flatpack and hydraulic system combine versatility and servicing convenience. Pump cells can be switched out as jobs require or when maintenance is necessary. This feature also provides easier access to the S-Valve and shift cylinders.

47Z-Meter

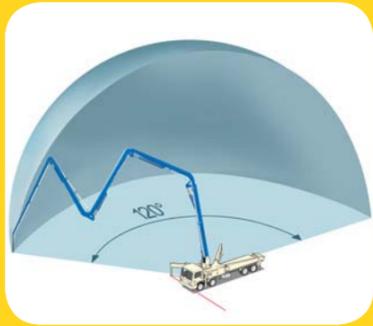
Truck-Mounted Concrete Boom Pump



- 151' 3" (46.10m) vertical reach
- Versatile 5-section Z-Fold boom design
- Compact outrigger spread
- 5" (125mm) twin-wall delivery line
- One-Sided Support (OSS) system

47Z-Meter

Putzmeister BOOM PUMP ADVANTAGE



One-Sided Support (OSS) System

For enhanced job site versatility, Putzmeister's unique OSS system allows the operator to reduce the outrigger extension on one side of the unit to create a smaller overall machine footprint. Utilizing a series of sensors, OSS enables the unit to maintain a defined and safe 120 degree working envelope on space restrictive sites that demand a larger boom.



Better Boom Design

Lighter 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 Z-Fold configuration handles space restrictive areas and can pump even if the boom is not fully extended.



RS 907A Hopper

Putzmeister's EZ Clean Out RS 907A hopper is engineered for performance and easy maintenance. Offering 19.4 cu. ft. (550L) capacity, the hopper features hard-faced remixer paddles and vibrator. The unique design of the splash guard protects the unit from splattering during pumping and folds down and latches to cover the hopper during transit.

47Z-Meter

Truck-Mounted Concrete Boom Pump Standard Features

Boom

- 151' 3" (46.10m) vertical reach
- Versatile 5-section Z-Fold boom
- Manual lubrication
- Integrated work lights

Delivery Line

- Equipped with 5" (125mm) twin-wall delivery line on all boom sections providing efficient concrete delivery
- Induction-hardened deck pipe with CCI turret elbow
- Easy lift-out brackets for simple delivery line replacement
- Standardized elbows and straight pipe sections
- Common component availability and easy replacement

Pedestal

- Rotation bearing and access openings simplify turret pipe changes
- Fully integrated pedestal design absorbs all forces
- Easy access large single-suction filter with indicator gauge
- Condensation trap in the tank for water collection
- Two spacious decks for convenient pipe and hose storage
- Manual lubrication
- Side-mounted aluminum toolboxes
- Integrated work lights
- Breakaway rear steps

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 control box

Outriggers

- Quick setup on restrictive job sites
- Fully hydraulic outriggers with integral cylinders
- Unique "X" brace outrigger system
- Front outriggers extend diagonally out and down
- Rear outriggers swing out and extend down
- Auxiliary fuel tank in outrigger
- Auxiliary water tank in outrigger
- Four outrigger pads in two side compartments
- One-Sided Support (OSS) system featuring a 120° working range
- Bubble level indicators

EZ Clean Out RS 907A Hopper

- Large 19.4 cu ft (550L) capacity
- Hard-faced remixer paddles
- Vibrator
- Hinged splash guard covers hopper during transit
- Low hopper height allows easy discharge from a mixer 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



Concrete Pump

- Choose from high pressure or high volume with the same setup
- Free flow hydraulic system for smooth, controllable pumping
- Multi-piece piston cup design
- Automatic lubrication of the concrete pistons for long service life
- 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

Clean Out

- Fast and easy clean out
- 406 psi (28 bar) hydraulically-driven water pump
- Wash out kit and hose
- Integrated 40 gallon (145L) water tank in pedestal, 153 gallon (580L) water tank in outrigger

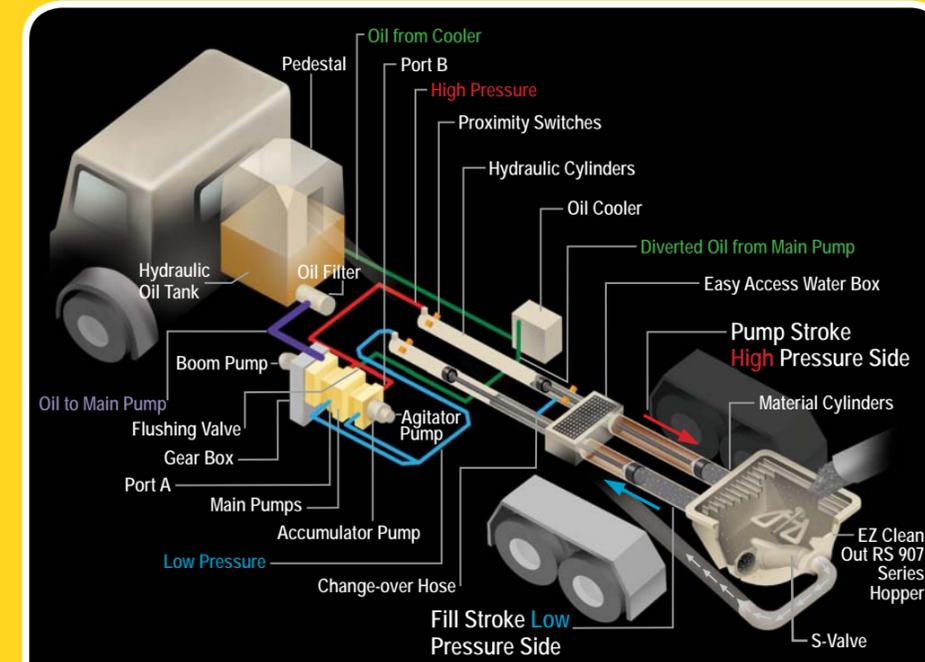


Large on Reach, Smart in Design

Congested job sites are no match for the maneuverable, five-section Z-Fold boom design of the 47Z-Meter. The boom's well-designed layout of components incorporates fewer bends for easier service, a smoother concrete flow, a longer service life and greater parts commonality.

Its rotation bearing slewing head handles higher levels of torque. In addition to the unit's already compact outrigger footprint, the 47Z-Meter features Putzmeister's One-Sided Support (OSS) system as standard, to further minimize the space required when pumping.

Putzmeister FREE FLOW HYDRAULICS



Putzmeister 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 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.

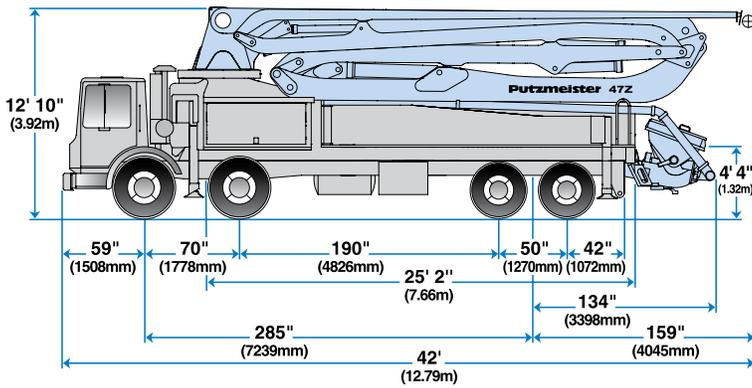
The closed loop also requires far less oil to run the system, as a larger reservoir is not necessary to cool all of the oil.

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.

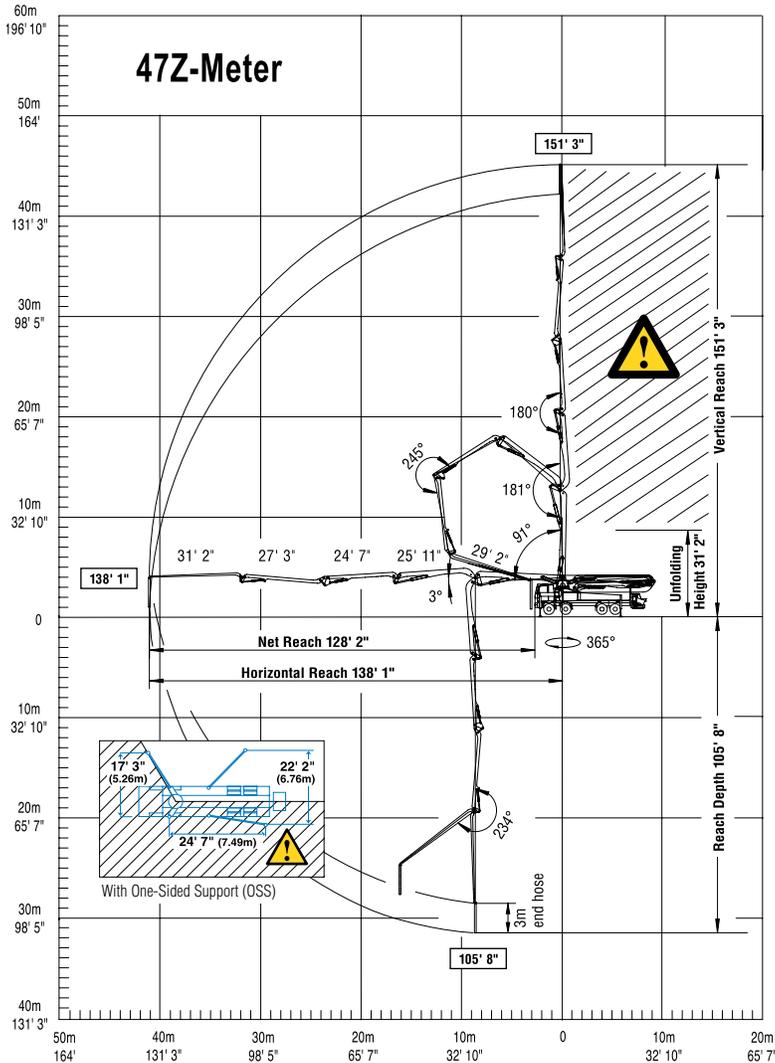
An electrical signal precisely synchronizes the drive cylinders with the accumulator system that controls the S-Valve in the hopper. Reserved energy in a nitrogen bladder sends a supercharged blast of oil at precisely the right moment to facilitate a smooth and fast shift of the S-Valve from one position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

Key Advantages of Putzmeister's Free Flow Hydraulics:

- Constant pressure on material in the delivery line ensures pumping is smooth and the flow of concrete is consistent.
- The intelligent design eliminates wear-inducing pressure peaks, increases service life and makes our pumps extremely powerful.
- There is greater pump output due to the efficient use of all available energy.
- Rapid changeover of the stroke means higher outputs, a smoother flow of concrete and less boom bounce.

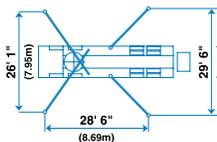


Range Diagram



End hose not to be operated in caution area.

Photos and drawings are for illustrative purposes only. For available options, please refer to price list.



47Z-Meter Truck-Mounted Specifications

Based on Model MACK MRU 688S with .16H pump cell

Length	42'	(12.79m)
Width	8' 2"	(2.50m)
Height	12' 10"	(3.92m)
Wheelbase	285"	(7,239mm)
Front axle weight	35,494 lbs	(16,100kg)
Rear axle weight	40,557 lbs	(18,397kg)
Approx total weight	76,822 lbs	(34,846kg)

Weights are approximate and include pump, boom, truck, full hydraulic oil, 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	151' 3"	(46.10m)
Horizontal reach	138' 1"	(42.09m)
Reach from front of truck*	128' 2"	(39.07m)
Reach depth	105' 8"	(32.21m)
Unfolding height	31' 2"	(9.50m)

5-Section Boom

1st section articulation	91°	
2nd section articulation	181°	
3rd section articulation	180°	
4th section articulation	245°	
5th section articulation	234°	
1st section length	29' 2"	(8.89m)
2nd section length	25' 11"	(7.90m)
3rd section length	24' 7"	(7.49m)
4th section length	27' 3"	(8.31m)
5th section length	31' 2"	(9.50m)

General Specs

Pipeline size (ID) metric ends	5"	(125mm)
Rotation	365°	
End hose — length (lightweight)	10'	(3m)
End hose — diameter	5" - 4"	(125 - 102mm)
Outrigger spread L - R — front	26' 1"	(7.95m)
Outrigger spread L - R — front	hydraulically extend out & down	
Outrigger spread L - R — rear	29' 6"	(8.99m)
Outrigger spread L - R — rear	hydraulically swing out & extend down	

Pump Specifications 47Z.16H 47Z.20H

Output — rod side	210 yd ³ /hr (160m ³ /hr)	—
piston side	146 yd ³ /hr (112m ³ /hr)	260 yd ³ /hr (200m ³ /hr)
Pressure — rod side	1233 psi (85 bar)	—
piston side	1885 psi (130 bar)•	1233 psi (85 bar)
Material cylinder diameter	9" (230mm)	11" (280mm)
Stroke length	83" (2100mm)	83" (2100mm)
Max strokes per minute — rod side	31	—
piston side	21	26
Volume control	0-Full	0-Full
Vibrator	Standard	Standard
Hard-chromed material cylinders	Standard	Standard
Hydraulic system	Free Flow	Free Flow
Hydraulic system pressure	5075 psi (350 bar)	5075 psi (350 bar)
Differential cylinder diameter	5.5" (140mm)	5.5" (140mm)
Rod diameter	3.1" (80mm)	3.1" (80mm)
Maximum size aggregate	2.5" (63mm)	2.5" (63mm)
Water tank — pedestal	40 gal (145L)	40 gal (145L)
outrigger	153 gal (580L)	153 gal (580L)

Maximum theoretical values listed.

* Applies to units mounted on PMA stock truck — MACK MRU 688S

• Standard delivery line system rated at max line pressure of 1233 psi (85 bar)

Authorized Distributor



Putzmeister America, Inc.
1733 90th Street
Sturtevant, WI 53177 USA
Telephone (262) 886-3200
(800) 884-7210
Facsimile (262) 884-6338
www.putzmeister.com

