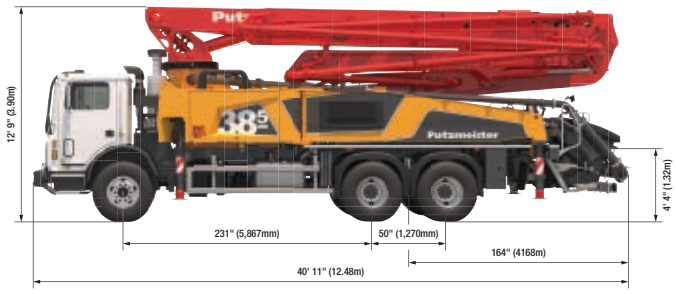
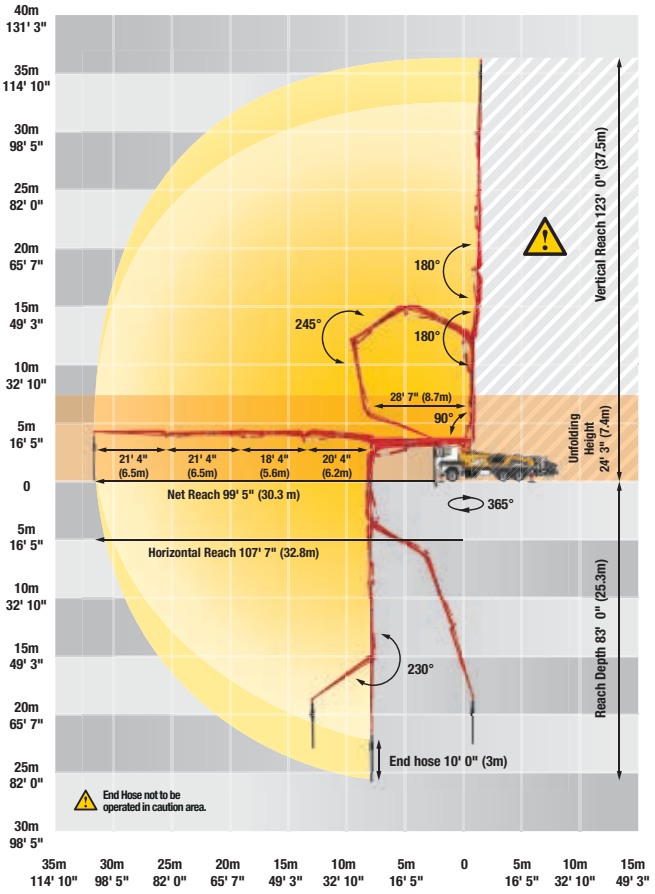
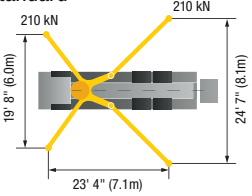


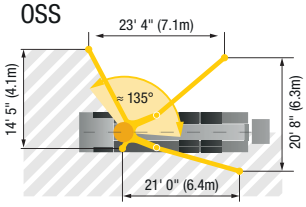
38Z-5-Meter Range Diagram



Standard



OSS



38Z-5-Meter Truck-Mounted Specifications

Length	40' 11"	(12.48m)
Width	8' 2"	(2.50m)
Height	12' 9"	(3.90m)
Wheelbase	231"	(5,867mm)
Front axle weight	18,880 lbs	(8,564kg)
Rear axle weight	37,540 lbs	(17,028kg)
Approx total weight	56,420 lbs	(25,592kg)

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

Boom Specifications | Z-Fold Design		
Height & Reach		
Vertical reach	123' 0"	(37.50m)
Horizontal reach	107' 7"	(32.80m)
Reach from front of truck*	99' 5"	(30.30m)
Reach depth	83' 70"	(25.30m)
Unfolding height	24' 3"	(7.40m)
5-Section Boom		
1st section articulation	90°	
2nd section articulation	180°	
3rd section articulation	180°	
4th section articulation	245°	
5th section articulation	230°	
1st section length	28' 7"	(8.70m)
2nd section length	20' 4"	(6.20m)
3rd section length	18' 4"	(5.60m)
4th section length	21' 4"	(6.50m)
5th section length	21' 4"	(6.50m)

General Specifications		
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 hydraulically extended out & down	19' 8"	(6.00m)
Outrigger spread L-R — rear hydraulically swing out & extend down	24' 7"	(8.10m)

Pump Specifications	38Z-5.16H	38Z-5.18H LS
Output — rod side	210yd³/hr(160m³/hr)	—
— piston side	141yd³/hr(108m³/hr)	238yd³/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	0-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)	5.5" (140mm)
Rod diameter	3.1" (80mm)	3.1" (80mm)
Maximum size aggregate	2.5" (63mm)	2.5" (63mm)
Water tank — pedestal	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)

QUALITY SYSTEM CERTIFIED ISO 9001:2008

Putzmeister

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Putzmeister

38Z-5-Meter

Truck-Mounted Concrete Boom Pump

Better than ever before

Improving upon excellence

Putzmeister's most popular pump is only getting better. Thanks to meaningful feedback from customers across the globe, the best-selling 38Z-5-Meter features a number of functional improvements. Stability is increased with a more robust, calm pedestal, and the Ergonic® 2.0 technology is optimized for better control and monitoring. All in all, the pump continues to prove its worth as one of the most efficient and cost-effective units on the job site.

Maneuverable boom
The 38Z-5 boom is incredibly agile, which comes in handy on challenging job sites. Its low unfolding height makes it ideal for working inside buildings.

Minimal maintenance costs
The 38Z-5 is engineered to save time and money. Its robust components stand up to wear. Necessary maintenance is simple, quick and kept to a minimum.

Easy to operate
The boom control's fast response characteristics, smooth pump operation, sophisticated routing of the delivery lines, and robust steel structure ensure precise concrete placement.

Genuine Parts. Expert Service. Putzmeister keeps you running.

Not all parts and accessories are created equal. Putzmeister offers the longer-lasting, better-performing parts and accessories you need to stand up to increased wear conditions. This means greater savings and less downtime.

With a busy schedule and your reputation on the line, nothing is more critical than ongoing on-site support. Coast-to-coast and around the world, you can count on expert Putzmeister service to keep your project and jobsite moving. Our trained technicians are available 24/7 to deliver the help you need, when you need it.

Boom, control and support

The boom — uniquely flexible in any application

The optimized kinematics ensure that the working area is maximized and there is no "dead space." This makes the 38Z-5 with a Z-fold boom a successful combination of flexibility and compactness.

Maximum usability, minimum maintenance costs

Engineered to save time and money

- Robust components with high wear resistance
- Many maintenance-free and standard components
- Quick and easy maintenance access
- Bolt-on parts such as the pipe bracket

Fewer movements increase service life

Thanks to auto lubrication points, the operator can remain safely on the ground — the 38Z-5 lubricates the first boom cylinder and the slewing bearing and hub independently. This is not just faster and more cost-effective; it also increases the components' service life.

Ergonic® 2.0: the brains behind the brawn

Putzmeister machines with Ergonic overcome the difficulties of day-to-day work on the jobsite to deliver increased efficiency, reduced costs and greater flexibility.

- EPS – Ergonic® Pump System
- EOC – Ergonic® Output Control
- Ergonic® FFS
- EGD-RC — Ergonic® Graphic Display (Radio) Remote Control
- EBC — Ergonic® Boom Control

ergonic® inside

Stands steady in every location

With TRD I support, developed by Putzmeister, you can save time and space without compromising on safety. Telescoping outriggers can be placed between obstacles and in the smallest of spaces. A huge advantage when working under restrictive setup conditions.

Narrower support with One-Sided Support (OSS)

With OSS, the outrigger footprint is reduced even further. This ensures that the boom's total reach on the fully supported side is optimally used.

38Z-5-Meter — features at a glance

Benefits at a glance

- Smooth 5-section boom with Z-Fold design, optimum flexibility and lower unfolding height
- Versatile use on jobsites, whether operating under low ceiling heights, congested sites, or demanding conditions
- Efficient operation thanks to intuitive, innovative ergonomics
- Robust, calm and stable due to reinforced base structure, compact pedestal, and boom line installation
- Maintenance- and service-friendly with optimized accessibility and consistent bolt concept
- Lower service costs thanks to standardized, maintenance-free components and smaller quantities of operational fluids

The new boom at a glance

- 123' 0" (37.50m) vertical reach with 5-section in Z-Fold boom design
- No dead space, more flexibility
- Lower unfolding height
- Fast response characteristics of boom control
- Improved safety, reduced boom vibration
- EBC for vibration damping, one-handed control
- Lubrication for first boom cylinder and the slewing bearing
- Standard 90° and 45° elbows, with lengthened collars for a longer service life

Putzmeister PRO-VANTAGE® WARRANTY PLAN

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.

The new pedestal at a glance

- Low weight offers high payload capacity
- Plenty of storage space on the deck
- A more robust, calm and stable base structure
- Significantly reduced footprint with the use of one-sided support (OSS) outrigger system
- Saves money thanks to maintenance-free components, comprehensive bolt concept and standard components

The new pump at a glance

- Pump geometry is optimally coordinated to all common concrete types
- Service-friendly control system with exclusive free flow hydraulics
- Wear-resistant design of S-Valve for long service life
- Optimized hopper with optimized shape
- Hopper agitator safety shutdown via Radio Frequency Identification (RFID)
- Automatic agitator direction of rotation corresponds to pumping direction
- Smooth, optimized pumping with EPS and EOC, protects the pump and vehicle
- Optimized switchover procedure with SN control system and Push-Over avoids wear-intensive pressure peaks
- More convenient operation with Ergonic® 2.0, the latest concept for control hardware and software from Putzmeister
- Minimal operating costs thanks to maintenance-free common components and increased accessibility
- Easy replacement of components due to bolt-on concept

High-performing pump and pedestal

Free flow hydraulics in a closed loop system

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.

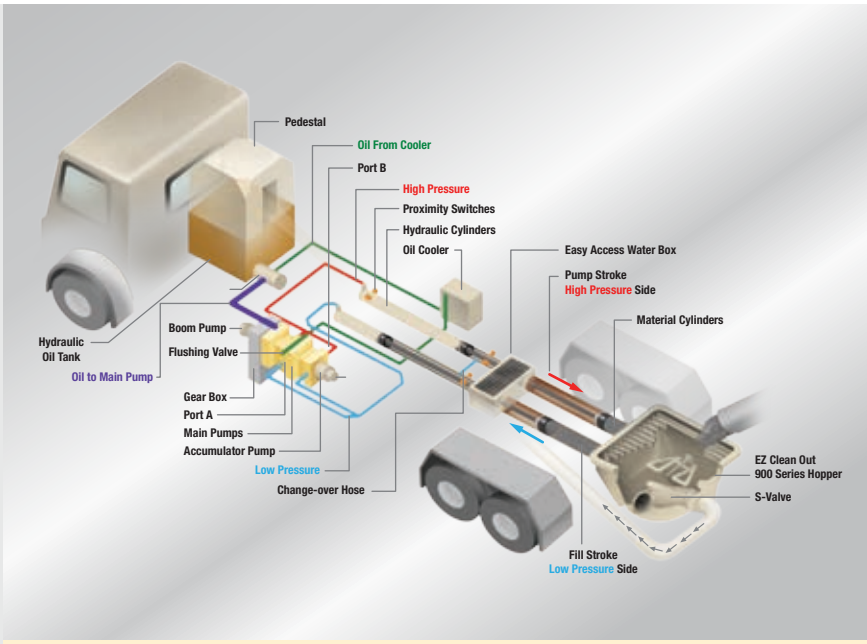
Depending on the specific pump cell size, up to 20% of the oil leaves the simple closed loop system during each stroke through a flushing valve on the main pump and cycles to a cooler before it returns to the hydraulic oil tank.

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.



The pedestal — robust, stable, reliable

The 38Z-5 fulfills the most stringent weight regulations while offering plenty of additional payload for functional fluids and accessories. Sufficient storage is available due to the outrigger design and wide deck with anti-slip surface.

Additional details make the base structure particularly robust: the overlap length of the front telescopic support legs, the closed rear swinging outriggers, and the compact boom pedestal, which is made of a single piece of material.

The pedestal is particularly impressive when it comes to force distribution. The forces acting on it are completely distributed over the outriggers, protecting the chassis. The I-frame and connection concept also ensures a longer service life than that of rigid frames.

The concrete pump — enough power to fit your needs

Like all Putzmeister truck-mounted concrete pumps, the 38Z-5-Meter is available with different pump kits, each with a delivery pressure of 1,233 psi (85 bar). The cost-effective 16H and 18HLS feature two chromium-plated delivery cylinders and smooth operation. They both offer high delivery rates, but the LS version has a lower number of strokes, which means less wear over time.