Putzmeister

38Z-5 Truck-Mounted Boom Pump

Technical specifications

Versatile for all your jobsites

Improving upon excellence

Putzmeister's most popular pump is only getting better. The best-selling 38Z-5-Meter features a number of functional improvements. Stability is increased with a more robust pedestal, and the Ergonic® 3.0 technology is optimized for better control and monitoring. 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. The optimized boom kinetics make it ideal for working inside buildings (see the image on page 3).

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.

Free flow hydraulics in a closed loop system

- 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.

Other benefits at a glance

Boom
- 5-section roll-Z-fold design
- Integrated safety platform
- More flexibility in the boom eliminates dead space
- Low unfolding height
- Fast control response characteristics
- Lubrication for first boom cylinder and slewing bearing
- Standard 90° and 45° elbows, with lengthened collars for a longer service life

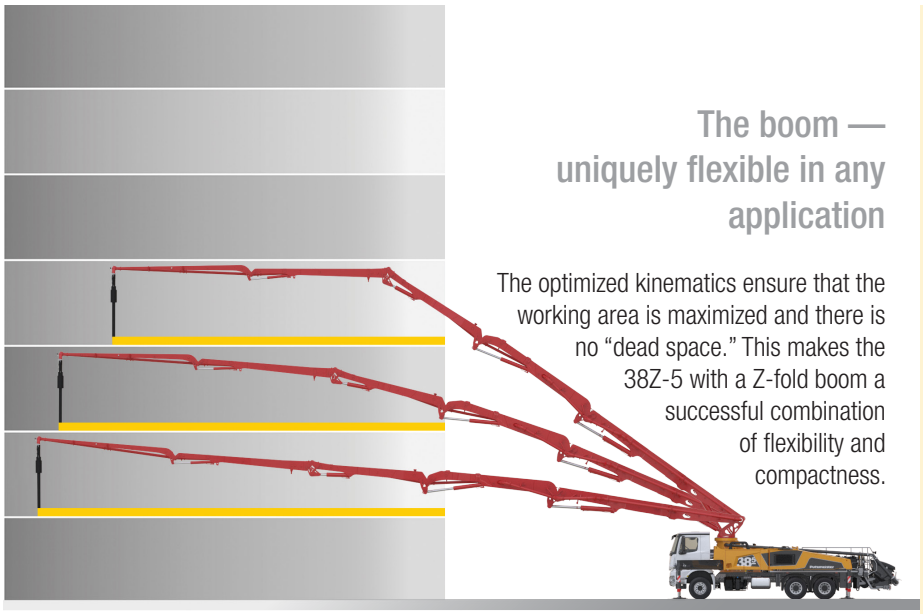
Pedestal
- Increased robustness and stability
- Low weight offers high payload capacity
- Plenty of storage space on the deck
- One-sided support (OSS) outrigger system

Pump
- Engineered for all common concrete types
- Service-friendly control system with exclusive free flow hydraulics
- Wear-resistant design of S-Valve
- Optimized hopper with optimized shape
- Hopper agitator safety shutdown via Radio Frequency Identification (RFID)
- Automatic agitator direction of rotation corresponds to pumping direction
- Optimized pumping with EPS and EOC
- Optimized switchover procedure and Push-Over avoids wear-intensive pressure peaks

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 boom - uniquely flexible in any application



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.

Fewer movements increase service life

The 38Z-5 lubricates the first boom cylinder, slewing bearing, and hub independently, allowing the operator to remain safely on the ground. This allows for faster and more cost-effective pumping and increases the components’ service life.

Engineered to save time and money

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

Standard features

Concrete Pump Unit

- Free flow hydraulics
- Multi-piece piston cups
- S-Valve - 2318 hard-faced (9” to 7”)
- RS 909 clean out hopper w/ solid polyurethane fold down back splash
- Hardox remixer paddles
- Hopper vibrator
- Hopper agitator safety shutdown via Radio Frequency Identification (RFID)
- Hard-chromed material cylinders
- Proximity switches w/ indicator
- Hydraulic outriggers - front & rear
- Snap-locks for outriggers & bubble level indicators
- 406 psi (28 bar) high pressure water pump
- 185 gal (700L) composite water tank
- Manual grease system - boom
- Auto-lube grease system - hopper / pedestal
- Centralized lube locations
- Gauge Port Central (GPC)
- Loading decks for pipe & accessories
- Modular bolt-on flatpack
- Large side-mounted aluminum toolboxes
- Swing out step (left side)
- Operator Supervision Warning System (OSWS)
- 5" delivery line on boom & deck pipe
- Proline 3000 Putzmeister Pipe Technology (PPT) w/ 10 ft (3m) delivery hose w/ coupling
- Electric oil cooler
- Wash out kit & hose
- Light kit package at boom, pedestal, & hopper
- 4 outrigger pads w/ 2 side compartments
- Wireless & cable remote

Unit Control System

- Ergonic 3.0 w/ Ergonic Output Control (EOC)
- Standard world pattern
- Radio remote w/ Ergonic Graphic Display Remote Control (EGD-RC) w/ full proportionality & 20m cable back-up option
- Ergonic Graphic Display in control cabinet
- Cable remote w/ full proportionality
- Remote on/off of concrete pump & remote engine off

Miscellaneous

- Ship-away kit w/ basic maintenance tools
- Operational & safety manuals
- High quality paint finish

The pedestal – robust and stable for optimum reliability

TRDI Support

With TRDI 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 optional 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.

Protecting the vehicle with force distribution

When correctly supported on its legs, the forces acting on the machine are distributed over the support legs, protecting the vehicle. The I-frame and connection concept also ensure a longer service life than that of rigid frames.

Economically advantageous

Maintenance-free components, bolt-on concept, and standard components keep operating and maintenance costs low and easy to calculate.

Other Available Options

Auto Lube System - Boom	Outrigger saddle tank / fuel selector valve
High pressure washer (2000 psi / 138 bar)	Partial Flow Filter / Dehydrator
Hopper step (right hand side) hinged	Squeeze valve air line installation
Oil tank heater	Squeeze valve installation w/ PM EQV part
One-Sided Support (OSS) Outriggers	Wash-out hose reel kit
Outrigger aux fuel tank (DOT approved)	Water tank heater
Outrigger lightbar	

iLS pump – highlights

The Putzmeister iLS pump generation is setting standards across the board

The heart of every truck-mounted concrete pump is the pump itself. The iLS pump generation delivers significantly improved data across the board and is the logical advancement of the tried and proven HLS generation.

Special features

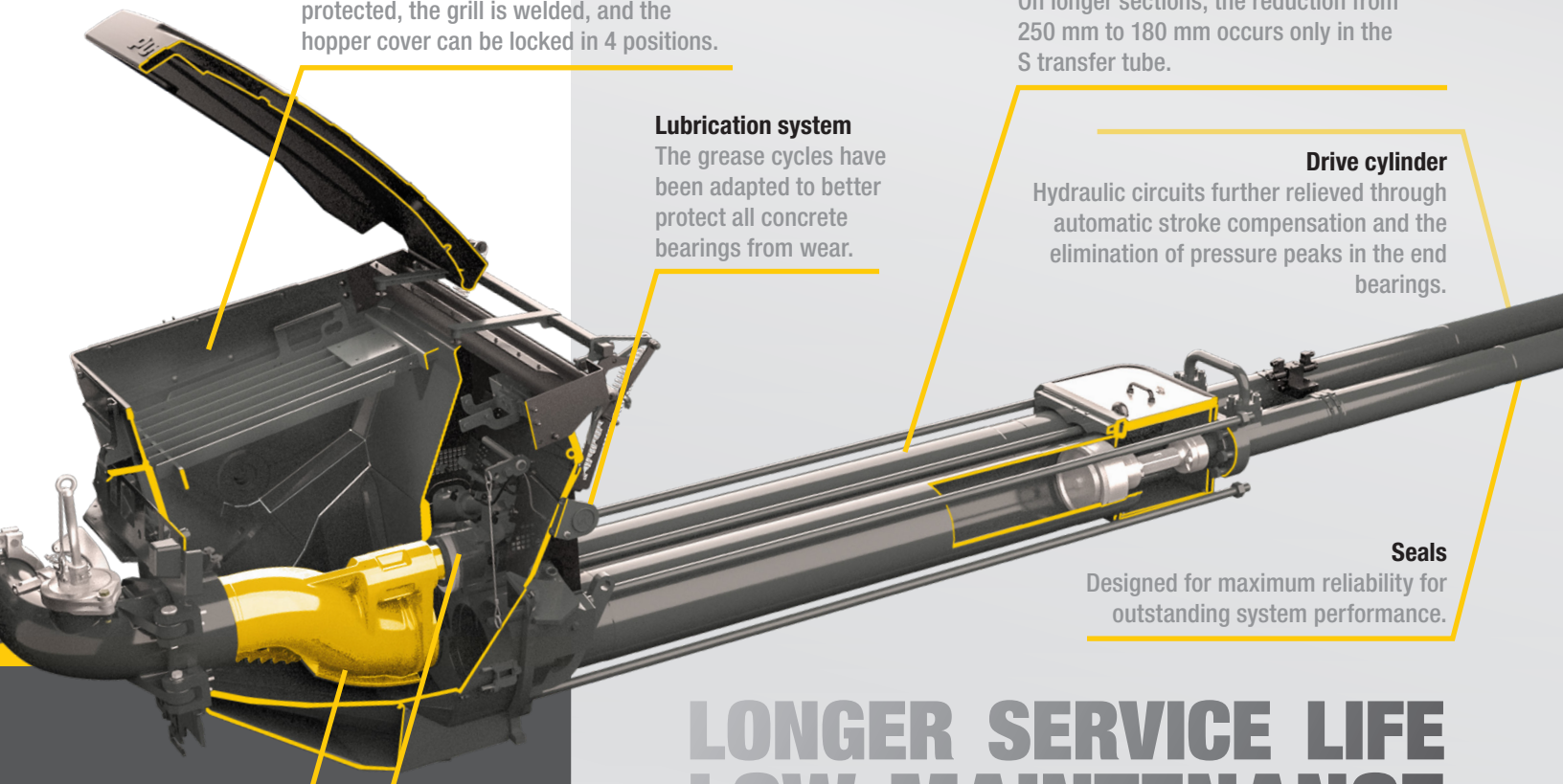
- Fuel savings of up to 25%
- 3% increased efficiency with leak prevention
- 10% better suction resulting from the elimination of constrictions in the concrete flow
- Optimized drive unit
- Optimized conveying unit – ideal for the heaviest concretes
- Reduced wear for long service life
- Optimized accessibility for maintenance and service
- Automatic stroke correction without pump interruption
- Field-tested and robust
- Reduced noise

Hopper
The hopper has a user-friendly and low-maintenance ergonomic design. It is RFID protected, the grill is welded, and the hopper cover can be locked in 4 positions.

Concrete cylinder
Eliminating the constriction before the S transfer tube has resulted in calmer pump behavior and improved efficiency. On longer sections, the reduction from 250 mm to 180 mm occurs only in the S transfer tube.

Lubrication system
The grease cycles have been adapted to better protect all concrete bearings from wear.

Drive cylinder
Hydraulic circuits further relieved through automatic stroke compensation and the elimination of pressure peaks in the end bearings.



Seals
Designed for maximum reliability for outstanding system performance.

S transfer tube
The hardened valve operates smoothly and guarantees extreme durability.

S transfer tube swivel bearing
The hopper wall thickness and bearing surface have been doubled for maximum reliability.

LONGER SERVICE LIFE
LOW MAINTENANCE
OPTIMIZED EFFICIENCY
OPTIMIZED ACCESSIBILITY
EASY CLEANING
BEST PERFORMANCE!

Ergonic® 3 – highlights

AS EASY TO OPERATE AND MORE INTUITIVE THAN EVER BEFORE

ERGONIC® 3

The new Ergonic® 3 – clear, fast, and safe

- **Continuous operating concept** for all Putzmeister products with the same functions and displays – whether on the radio remote control or the Ergonic Graphic Display (EGD).
- **Intuitive work and quick reactions** thanks to a clear menu structure and intuitively arranged functions.
- **Full overview** of machine status on the radio remote control and EGD (incl. valves, sensors, and LEDs on fuses).
- **Detailed fault management:** Faults are easy to detect and rectify – even without a Putzmeister technician.
- **Multi-level emergency operation** keeps the machine running even in the toughest conditions.

Pumping made smart

If our concrete pumps are the heart of Putzmeister machines, then the Ergonic system is the brain.

As a switching center, the microprocessor-supported control systems regulate the functions of concrete pumps and placing booms.

Always by your side – Ergonic® 3 inside

EPS
Ergonic Pump System

Takes control of the concrete pump for optimized pumping.

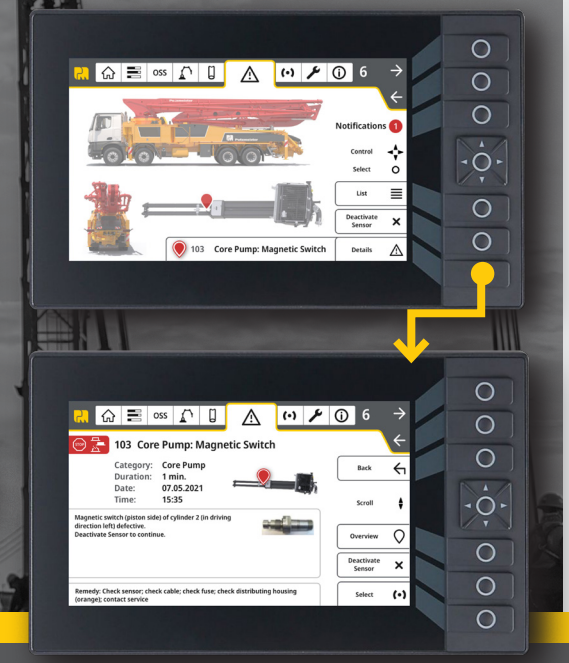
EOC
Ergonic Output Control

Regulates the optimum motor speed for smooth operation with fuel efficiency and low wear.

ergonic® 3 inside

Ready for the future

- **A future-oriented solution** with interfaces for future expansions and easy software updates.
- **Service-friendly concept** with services that can be accessed and implemented efficiently.
- **Clearly guided fault management** on the radio remote control and display.



The best of two worlds

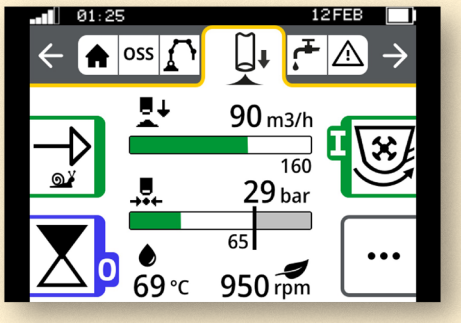
Ergonic® 3 is the logical evolution of Ergonic® 1 and Ergonic® 2.

Proven features are maintained, others developed further, and new and future-oriented functions are integrated.

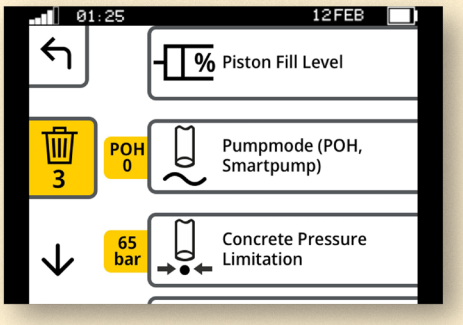
- Experienced Putzmeister customers quickly become familiar with operation, making the switch incredibly easy.
- New customers will need little training or instructions since operation is so intuitive.
- Once learned, a wide variety of machine models can be operated.

Keeping an overview in every situation

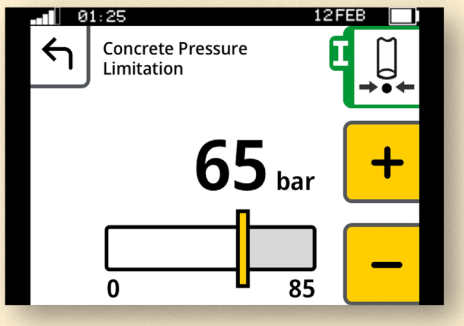
- The static menu bar guides users through the available functions.
- Neatly and intuitively arranged functions.
- Simple menu structure with a maximum of two submenu levels.
- Main menu with all standard functions and additional details in submenus.



Main menu



Submenu level 1



Submenu level 2

SIMPLE OPERATION

Easy and intuitive, for all machine operators.

RELIABLE OPERATION

With a comprehensive fault management.

DETAILED FAULT MANAGEMENT

Comprehensive fault messages with suggested solutions.

You can rely on Putzmeister – service, parts, and training

Everything that sets service apart

Putzmeister provides first class service with swift assistance, meaningful advice, and a reliable supply of genuine Putzmeister parts and accessories in over 120 countries.

Ideally placed to support you
We continuously train our service technicians, provide a close-knit information network, and the latest equipment to consistently strive to meet our customers' needs.

Our employees have all the relevant technical information about your machine at their fingertips, allowing us to provide you with the best possible support for emergencies, repairs, or preventive maintenance.

Our services for cost-effective work

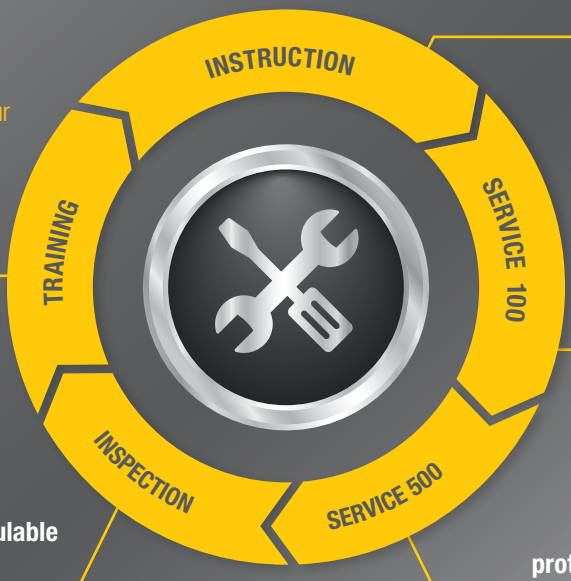
The Putzmeister service support points offer you these services - all provided by our experienced service staff:

Customer training – benefit from expert knowledge

Practice-oriented learning offers many benefits: Master the machine and all of its special features, use the machine to optimum effect, reduce operating costs, and avoid operating errors.

Mandatory machine inspection – calculable costs instead of incalculable failures

Visual inspection and functional check of components for 100% safety. The hydraulic system with cylinders, electrical system, and core pump are also inspected.



Introduction at handover – everything correct from the get-go

You and your team can adapt perfectly to all features and innovations.

100 hours of customer service – avoid potential sources of error

Receive a status report on your concrete pump per the Putzmeister service plan.

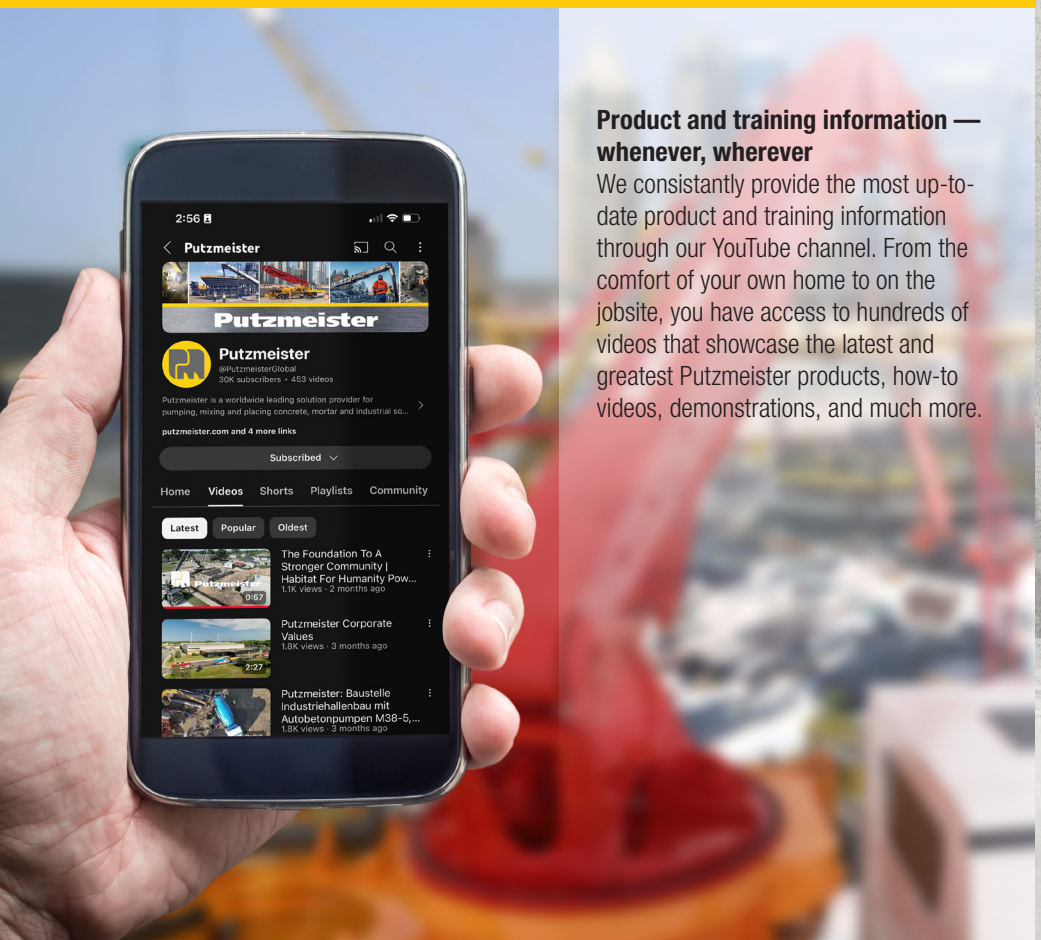
500 hours of customer service – protect your investment, retain your value

Our technical customer service team is the number one choice for checking the safety and wear of your machine.

Putzmeister Academy - Service Schools

We want to make sure you get the most from your Putzmeister equipment. To maximize the use and profitability of your investment, take advantage of the regular training seminars at our Wisconsin headquarters.

Service Schools cover maintenance, operation, and inspection of boom pumps, Telebelts, and Thom-Katts. They include hands-on training, problem-solving exercises, hands-on presentations, and safety training.



Product and training information — whenever, wherever

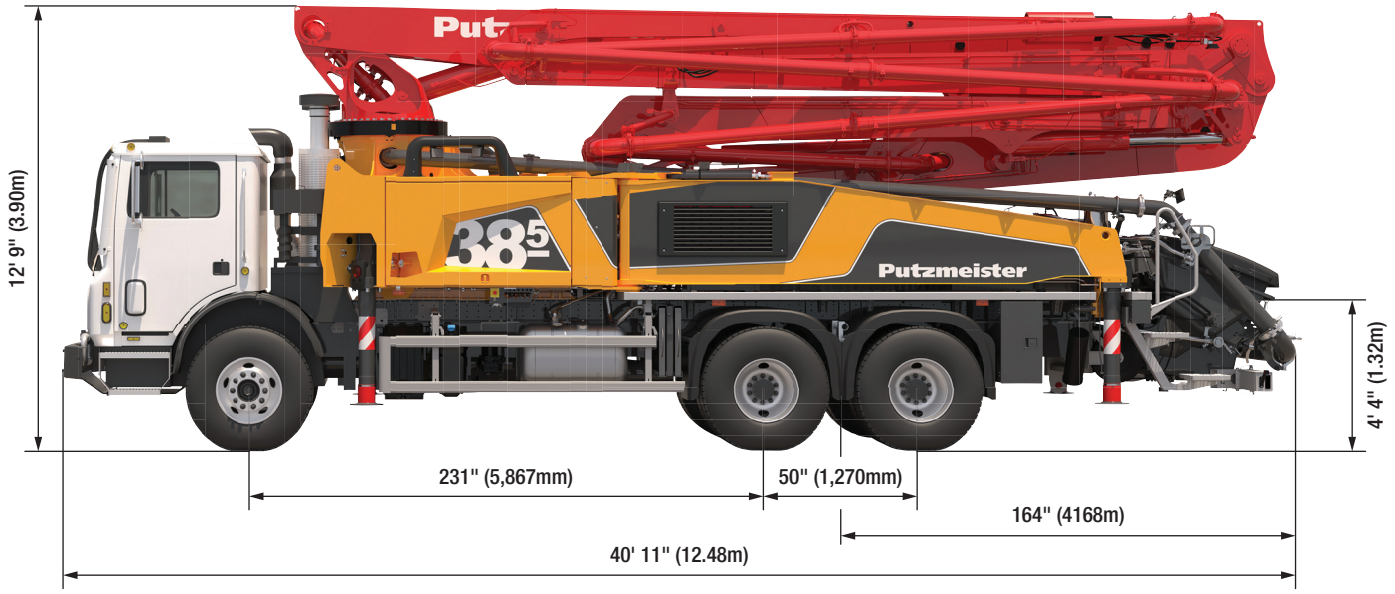
We consistantly provide the most up-to-date product and training information through our YouTube channel. From the comfort of your own home to on the jobsite, you have access to hundreds of videos that showcase the latest and greatest Putzmeister products, how-to videos, demonstrations, and much more.

Genuine parts for maximum availability

We use only genuine Putzmeister parts in our workshops to guarantee consistent quality. You can be sure that your machine meets the tough requirements with maximum performance and availability.

- Immediate availability worldwide through our extensive dealer network
- Longest possible service life and maximum reliability
- Minimal maintenance and repair work thanks to high-quality materials and tested quality
- Quick and easy replacement with precise fitting and no variations in quality
- Safety for your customers, your personnel, and your investment

38Z-5-Meter
Truck-Mounted Specifications

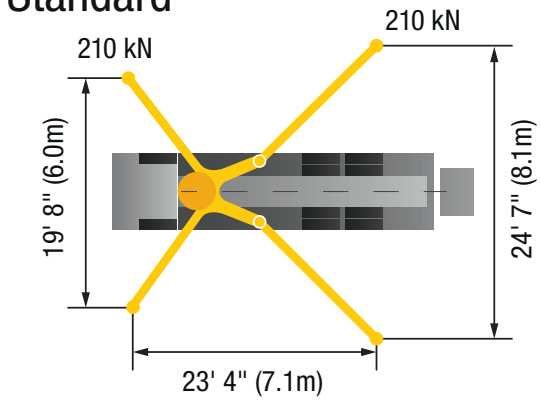


Machine Dimensions	Imperial	Metric
Length	40' 11"	12.48 m
Width	8' 2"	2.50 m
Height	12' 9"	3.90 m
Outrigger spread L - R — front	19' 8"	6.00 m
hydraulically extended out & down		
Outrigger spread L - R — rear	24' 7"	8.10 m
hydraulically swing out & extend down		
Wheelbase	231"	5,867 mm

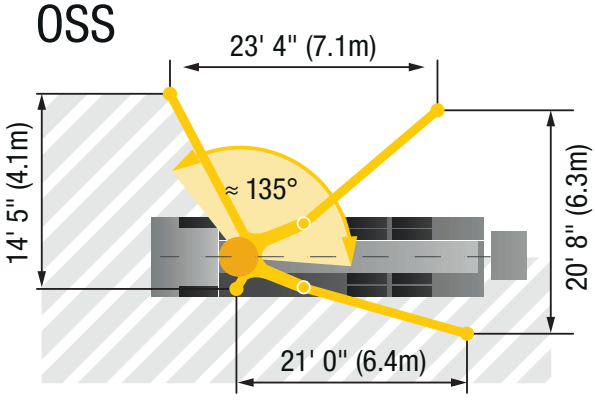
Weight	Imperial	Metric
Front axle weight	18,880 lbs	8,564 kg
Rear axle weight	37,540 lbs	17,028 kg
Approximate total weight	56,420 lbs	25,592 kg

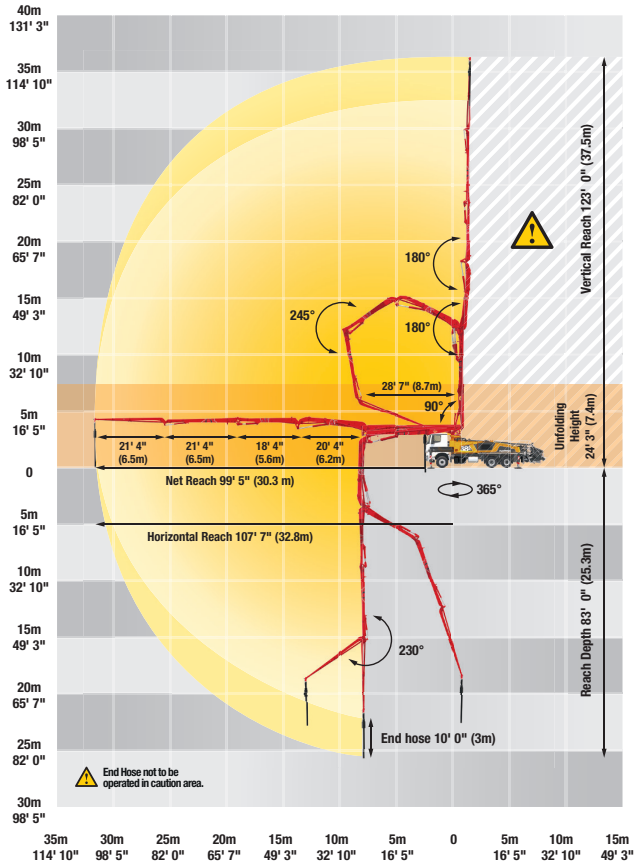
Based on Model MACK MRU 613 with .16H pump cell. Dimensions will vary with different truck makes, models, and specifications. Weights are approximate and include pump, boom, truck, driver and full fuel tank. Varies with options selected.

Standard



OSS





Boom I Multi-Z Design	Imperial	Metric
Height & Reach		
Vertical reach	123' 0"	37.50 m
Horizontal reach	107' 7"	32.80 m
Reach from front of truck*	99' 5"	30.30 m
Reach depth	83' 0"	25.30 m
Unfolding height	24' 3"	7.40 m
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"	8.70 m
2nd section length	20' 4"	6.20 m
3rd section length	18' 4"	5.60 m
4th section length	21' 4"	6.50 m
5th section length	21' 4"	6.50 m

General Specifications	Imperial	Metric
Pipeline Size (ID) metric ends	5"	125 mm
Rotation	365°	
End hose — length	10' 0"	3.00 m
End hose — diameter	5"	125 mm

Pump	38Z-5.16 H		38Z-5.17 iLS	
	Imperial	Metric	Imperial	Metric
Output — rod side	210 yd^3/hr	160 m^3/hr	—	—
— piston side	141 yd^3/hr	108 m^3/hr	222 yd^3/hr	170 m^3/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"	230 mm	10"	250 mm
Stroke length	83"	2,100 mm	83"	2,100 mm
Maximum strokes per minute				
— rod side		31		—
— piston side		21		27
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"	140 mm	4.5"	115 mm
Rod diameter	3.1"	80 mm	3.1"	80 mm
Maximum size aggregate	2.5"	63 mm	2.5"	63 mm
Water tank — pedestal	185 gal	700 L	185 gal	700 L

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)

Here for you
every step of the way

Our Putzmeister Promise

We build machines that increase your production and give you a competitive edge – and these machines are continuously developed. Innovative technologies and durable quality need to adapt to your ever-changing daily challenges. Our products stand for optimum output with low fuel consumption, wear, and costs.

Our customers will always have a thinking, intelligent partner in all their undertakings; a partner that will deliver to their exact requirements regardless of the complexity of the task or the remoteness of the scale. With knowledge and understanding backed by experience, we approach every task with renewed enthusiasm – be it a small scale construction or a mass assignment, tight deadlines, or unique concreting and manufacturing needs.

Your Putzmeister Team

Authorized Distributor © Putzmeister America, Inc. 2023. CT 4799-2 US. Photos and drawings are for illustrative purposes only.

QUALITY SYSTEM CERTIFIED
ISO 9001:2015

Putzmeister

Putzmeister America, Inc.
1733 90th Street
Sturtevant, WI 53177 USA
Putzmeister.com

Phone (262) 886-3200
Toll-free (800) 884-7210
Fax (262) 884-6338
pmr@putzmeister.com