



**Putzmeister**



# Truck-mounted concrete pump M38

All-round talent on 3 axles

Versatile, powerful, robust –  
the highlight of any job site



### Our masterful best-seller – the M38

It's not for no reason that the M38 is our best-selling truck-mounted concrete pump, satisfying customers all over the world. But we're not using this as an excuse to rest on our laurels – it's an incentive to keep developing our all-round talents. Thanks to its robust pedestal, this machine is even more stable; it is also more flexible to support

and more convenient thanks to new functions. What's more, it offers a particularly extensive range of standard equipment. Ergonic® 3 has been improved with the help of huge amounts of customer feedback so that you can work cost-effectively and efficient on almost every job site.

### The Putzmeister promise

The name Putzmeister stands for machines that enable you to work with extreme productivity and go beyond purely being competitive. To this end, we provide extraordinarily innovative technologies alongside top quality and excellent service. We are fully dedicated to supporting you both around the world and around the clock. And this is because every Putzmeister employee recognises that your machine has important jobs to do.

**Your Putzmeister Team**

# The placing boom – uniquely flexible in any application

## Approx. 38 m vertical reach using 5 arms optimally

The boom of the M38 is incredibly agile. This is an advantage which comes in handy on any job site, even indoors. After all, optimum slip characteristics, swinging with a folded arm assembly and its low unfolding height make working inside buildings no problem at all. The optimised kinematics ensure that the working area is maximised and there is no “dead space”. This makes the M38 with an RZ-folding placing boom a successful combination of flexibility and compactness.



**ergonic<sup>®</sup>**  
inside 3

## Precise, easy and safe to operate

The boom control's fast response characteristics, the sophisticated routing of the delivery lines and the robust steel structure ensure precise work. The boom only swings minimally, even at high outputs.

### Even more comfort with iBC (intelligent Boom Control)

The fully electronic control system with integrated vibration damping enables the end hose to be guided continuously. The boom can be moved even more smoothly using the joystick in one-handed operation. Limiting the working area or locking arm positions increases occupational safety.



## Maximum capacity utilisation, minimum maintenance costs

Robust components with high wear resistance, many maintenance-free and standard components, simple and quick access, as well as screwed-on parts such as the pipe bracket help you to save time and money.

### Fewer movements needed, increased service life

Thanks to combination lubrication, the machine operator does not need to climb on the machine – the M38 lubricates the first placing boom cylinder and the slew bearing and hub independently. This is not just faster and more cost-effective; it also increases the service life of components under significant stress..

## Robust and maintenance-free components

+ Combined auto lube system

+ High wear resistance

= **Maximum durability**



## The new boom at a glance

- Approx. 38 m vertical reach with 5 arms in roll-Z fold system
- No dead space, more flexibility
- Lower unfolding height, optimum slip characteristics
- Fast response characteristics of boom control
- Safety thanks to reduced boom vibration
- iBC for vibration damping, one-handed control and limitation of workspace (optional)
- Electric combination lubrication for first placing boom cylinder and the slew bearing and hub
- Standard 90° and 45° elbows, with lengthened collars for a longer service life

# The pedestal – robust and stable for optimum reliability



## Stable on three axles

The M38 fulfils the strictest approval regulations when it comes to its weight, too. It offers plenty of additional load reserve for functional fluids and accessories. There is sufficient storage space available thanks to extended swinging support legs and the wide flatbed with an anti-slip surface. Additional details make the base structure particularly robust: The clamping length of the front telescopic support legs, the closed rear swinging support legs and the boom pedestal, which is compact and made of a single piece of material.



## Stands steady in every location

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

### Narrower support with OSS and iSC

With OSS\* (One-Side-Support) narrow support and iSC (Intelligent Setup Control)\*\*, the small support width is reduced even further. This has the important effect of ensuring that its total reach on the fully supported side is optimally used.

\* OSS – Assistance device for One-Side-Support, optional.  
\*\* iSC – Safety system for One-Side-Support (as per EN 12001:2012).



## Cost-effectiveness with a long service life

TRDI is particularly impressive when it comes to force distribution. If the machine is correctly supported on its legs, the forces acting on it are completely distributed over the support legs, protecting the vehicle. The I-frame and connection concept also ensures a longer service life than that of rigid frames.

### Built on economy

Maintenance-free components, a comprehensive screw concept for simple delivery line replacement or for easily retrofitting options, for example, as well as a wide range of standard components additionally help to keep operating and maintenance costs low and easy to calculate.



## The new pedestal at a glance

- Low unladen weight offers high weight reserves
- Plenty of storage space thanks to long swinging support legs
- More robust and more stable base structure due to a number of innovative details
- Flexible, space-saving TRDI support system
- Significantly reduced support widths with the use of OSS\* and iSC\*\* for restrictive setup conditions
- Saves money thanks to maintenance-free components, comprehensive screw concept, standard components and I-frame concept for improved distortion characteristics

# The concrete pump – clever interaction of all components

## Strong unit for every type of concrete

Concrete pumps from Putzmeister are designed for all common types of concrete with their coordinated geometry. This is thanks to the closed free flow hydraulic circuit, among other things. The drive transfers more power and saves resources because the oil reaches the cylinder with minimal losses. In addition, the Ergonic® blue, the new Putzmeister concept for improved sustainability, integrates a new hydraulic fluid management system into the control system.

This new technology not only enables the necessary quantity of hydraulic fluid to be reduced by up to 50% – it also allows the use of environmentally friendly organic fluid. A further success factor is the S transfer tube point, which has a long service life even with wear-intensive materials. Because the S transfer tube was reinforced with build-up welding.



## Optimal coordination thanks to EPS

The computer-aided control system of the pump ensures a better performance via EPS (Ergonic® Pump System). EPS controls the pumping process using computers, so that it is smoother overall and the boom vibrations are reduced. Besides EPS, EOC (Ergonic® Output Control) is an effective module to work efficiently. Because EOC controls the

engine speed with lower fuel consumption, wear and noise. Unfavourable areas are automatically avoided. The same applies to the SN control system and Push Over. They ensure that the concrete column is pushed very gently and wear-intensive pressure peaks are avoided.

## The pump at a glance

- **Pump geometry is optimally** coordinated to all common types of concrete
- **Service-friendly control system** with free flow hydraulics and thus consistently high oil quality
- **Particularly wear-resistant** design of S transfer tube switch, which guarantees long service life
- **Optimised hopper** (screwed-in grille, improved shape and optimised S transfer tube storage)
- **Agitator safety shutdown via RFID** (Radio Frequency Identification), a detection system using electromagnetic waves, including start-up protection
- **Smooth, optimised pumping** with EPS and EOC, protects the pump and the vehicle
- **Optimised switchover procedure** with SN control system and Push Over avoids wear-intensive pressure peaks
- **Convenient and simple operation with Ergonic® 2.0**, the latest concept for control hardware and software from Putzmeister
- **Minimum operating costs** thanks to maintenance-free components, avoidance of special components and good accessibility
- **Easy replacement of components** due to screw concept, e.g. support cylinder
- **Automatic agitator direction of rotation corresponds to pumping direction**



## You choose the power

Like all Putzmeister truck-mounted concrete pumps, the M38 is available with different pumps with a delivery pressure of 85 bar: The 16H with two chromium-plated delivery cylinders (dia. 230 mm), which is cheaper in comparison, and the smoother 16HLS resp. 17iLS (dia. 250 mm). They both offer a delivery rate of 160 m³/h resp. 170 m³/h, but the LS version has a lower number of strokes and is thus subjected to less wear.

### The enhanced 17iLS also offers numerous benefits and improvements:

- **Fuel saving of up to 25 % with EOC 2.0** (field tested with multiple pumps for international applications)
- **More efficient pumping:** Oil leaks prevented by improved sealing system
- **Better pump start-up behaviour**
- **Longer service life** thanks to robust S-tube bearing

## Pumps

Model	Output m³/h	Pressure bar	Stroke mm	Cylinder Ø mm	Strokes/min
16 H	160*	85	2 100	230	31
16 H LS	160*	85	2 100	250	26
17 i LS	170*	85	2 100	250	27

All data represent theoretical maximum values.

\* Rod/piston side. Max. delivery rates and max. delivery pressures cannot be operated at the same time.



# Ergonic® 3 – precise, intuitive and reliable!

## Dedication in every respect

Ergonic® inside means that the machines are quickly ready for use and they work with high power, fuel efficiency and low wear. And most importantly for machine operators: **Work becomes easy!**



## Intelligent boom control – an unrivalled dimension of convenience and precision

The performance level of a truck-mounted concrete pump is evident in how precisely, quickly and safely the boom can be moved and positioned. As a pioneer in intelligent boom control systems, Putzmeister has already demonstrated how user-friendly a concrete pump can be with the EBC.

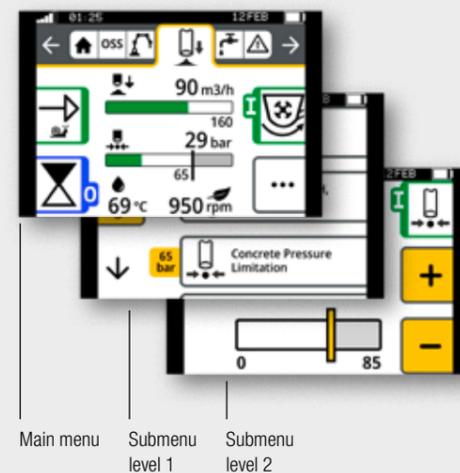
With **iBC (intelligent Boom Control)**, this system is now improved again – setting new standards for convenience and precision.

## 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, 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 and in virtually every case.

## Keeping an overview – in every situation

- The “static” menu bar guides users through the menu – with no chance of “getting lost”.
- 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.



## Extremely precise boom movements – iBC (intelligent Boom Control)

- **Unrivalled convenience**  
The patented iBC control system makes it easy for machine operators to control the boom with the joystick using just one hand. As a result, the end hose can be moved forwards, backwards or diagonally at the preselected height with a great deal of precision.
- **Unrivalled precision**  
The latest Putzmeister development is a big hit with machine operators: iBC made it possible to improve the boom's response characteristics and precision by another 80 %. The advanced boom damping delivers a stable, steady arm assembly at high delivery rates.
- **Unrivalled ease of folding**  
Folding and unfolding the arm assembly has never been this easy. With iBC, the boom movements are optimised for the exact machine model. Standard movements are carried out quickly and easily.

## Our most supportive system ever – iSC (intelligent Setup Control)

With the iSC (intelligent Setup Control), Putzmeister is raising the stability of concrete pumps to a whole new level. The successor to the proven ESC system offers a significant improvement in terms of machine reach and flexibility.

## On the safe side – now more than ever

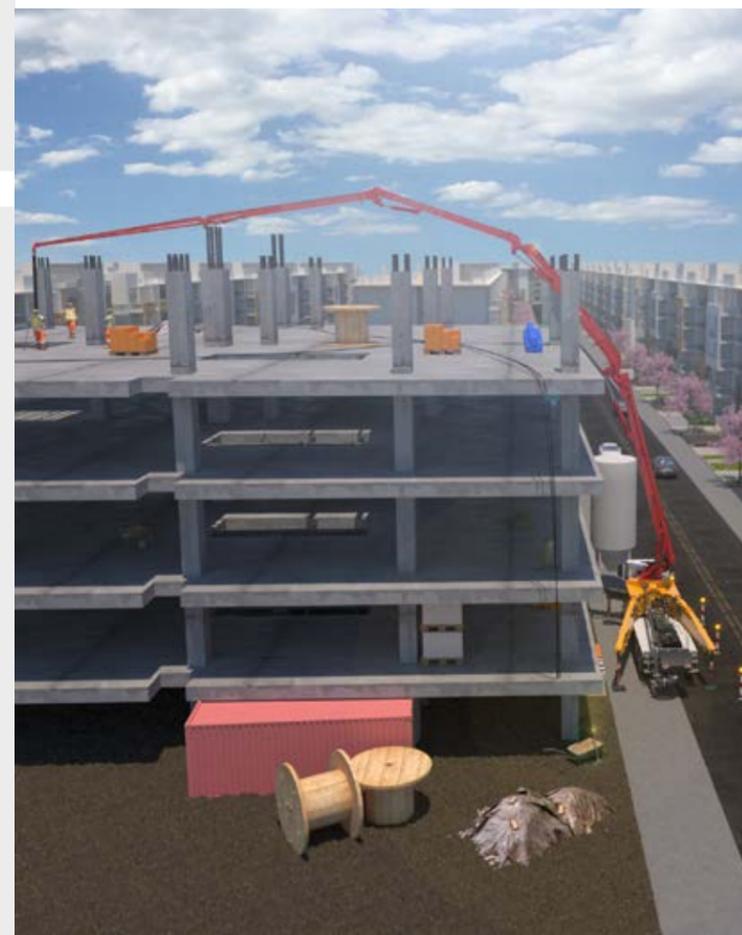
- **Maximum versatility** Optimum support options to suit the space available on-site. Even in the most difficult of conditions.
- **Maximum reach** Perfect interaction – the reliable reach prediction allows machine operators to utilise the robust steel structure of Putzmeister machines to their fullest potential.
- **Maximum safety** 100 % safety, no small print. Guaranteed stability in any situation. The patented drop warning and the possibility of providing additional support help machine operators in difficult conditions.

## Consistent concept on all “switching centres”

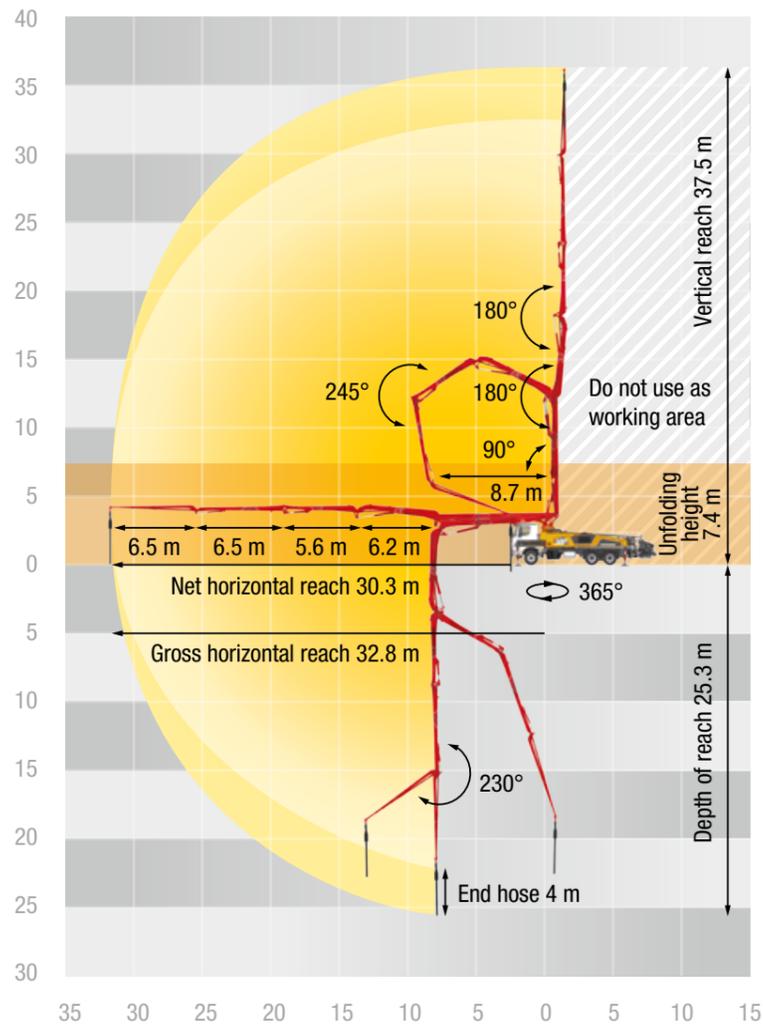
- The menu structure is nearly identical on the remote control and the graphic display.
- Hardware and software are perfectly matched at all operating positions.
- The same intuitive operation on all Putzmeister products – without requiring a lot of training.



The additional screen on the control cabinet uses the same concept and offers a variety of information, settings and options.



# Technical Data M38



## Placing boom

<b>Folding system</b>	5-arm roll-Z fold system
<b>Vertical reach</b>	37.5 m
<b>Horizontal reach</b>	32.8 m gross
<b>Depth of reach</b>	25.3 m
<b>Unfolding height</b>	7.4 m
<b>End hose length</b>	4 m
<b>Delivery lines</b>	DN 125, max. 85 bar
<b>Slewing circle</b>	365°

## General

Support width	front	/ rear
<b>Standard</b>	6.0 m	/ 8.1 m
<b>OSS</b>	4.3 m	/ 6.3 m
<b>iSC</b>	2.6 – 6.0 m	/ 2.6 m – 8.1 m
<b>Overall length</b>	10.8 m	
<b>Height</b>	under 4.0 m	

Note: Standard version. Dimensions and weights depend on truck, pump model and equipment.

## Equipment lines

To make it easier to select from the numerous configuration options, three comprehensive equipment lines, as well as a few option packages, are available.

### Standard line

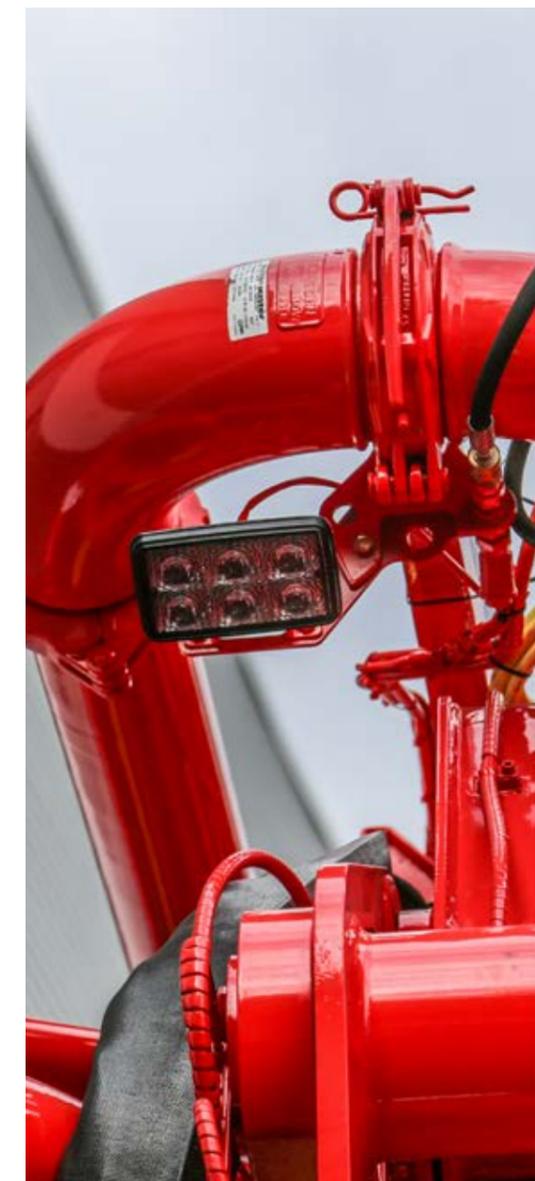
This equipment includes components which Putzmeister considers to be an economic standard for working efficiently and safely. Combined with the "German/EU road use approval" option package, the machine is ready for use throughout Europe.

### High line

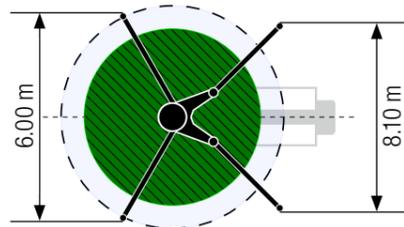
The high line provides easier operation, reduced maintenance costs and increased lighting comfort.

### Exclusive line

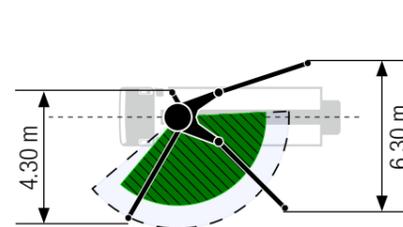
This line represents the highest equipment level offered by Putzmeister. It includes selected premium components.



## Standard – Full support

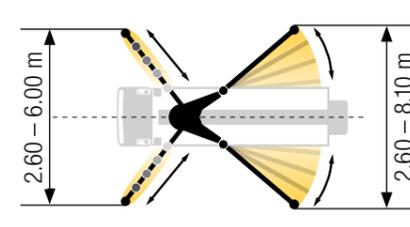


## OSS\* – One-side support

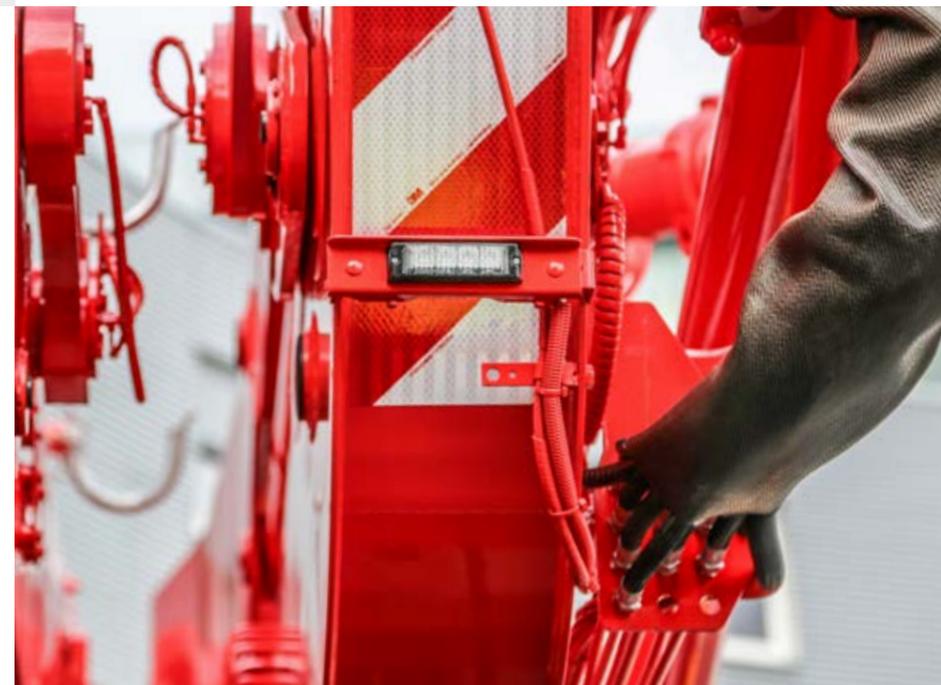


\* non EEA, no CE marking

## iSC\*\* – Full-flexible support



\*\* EEA, CE marking



# Build on Putzmeister – in service, parts, training

## Everything that sets service apart

Swift assistance, meaningful advice and a reliable supply of genuine Putzmeister accessories and parts - in over 120 countries worldwide. This is what we at Putzmeister understand as first-class service.

### Ideally placed to support you

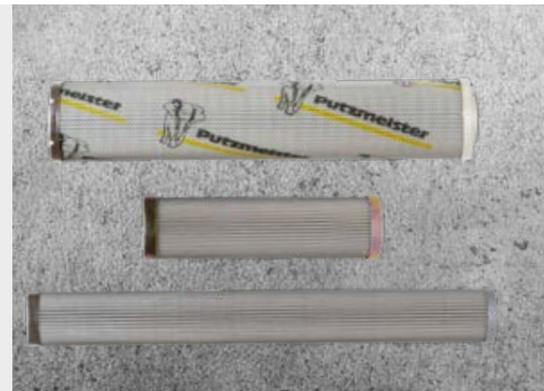
We train our service technicians continuously, provide a close-knit information network and the latest equipment and consistently strive to meet our customers' needs.

Thanks to state-of-the-art technology, our employees have all the relevant technical information about your machine at their fingertips, should the need arise. Allowing us to provide you with the best possible support for emergencies, repairs or preventive maintenance.



### Genuine parts for maximum availability

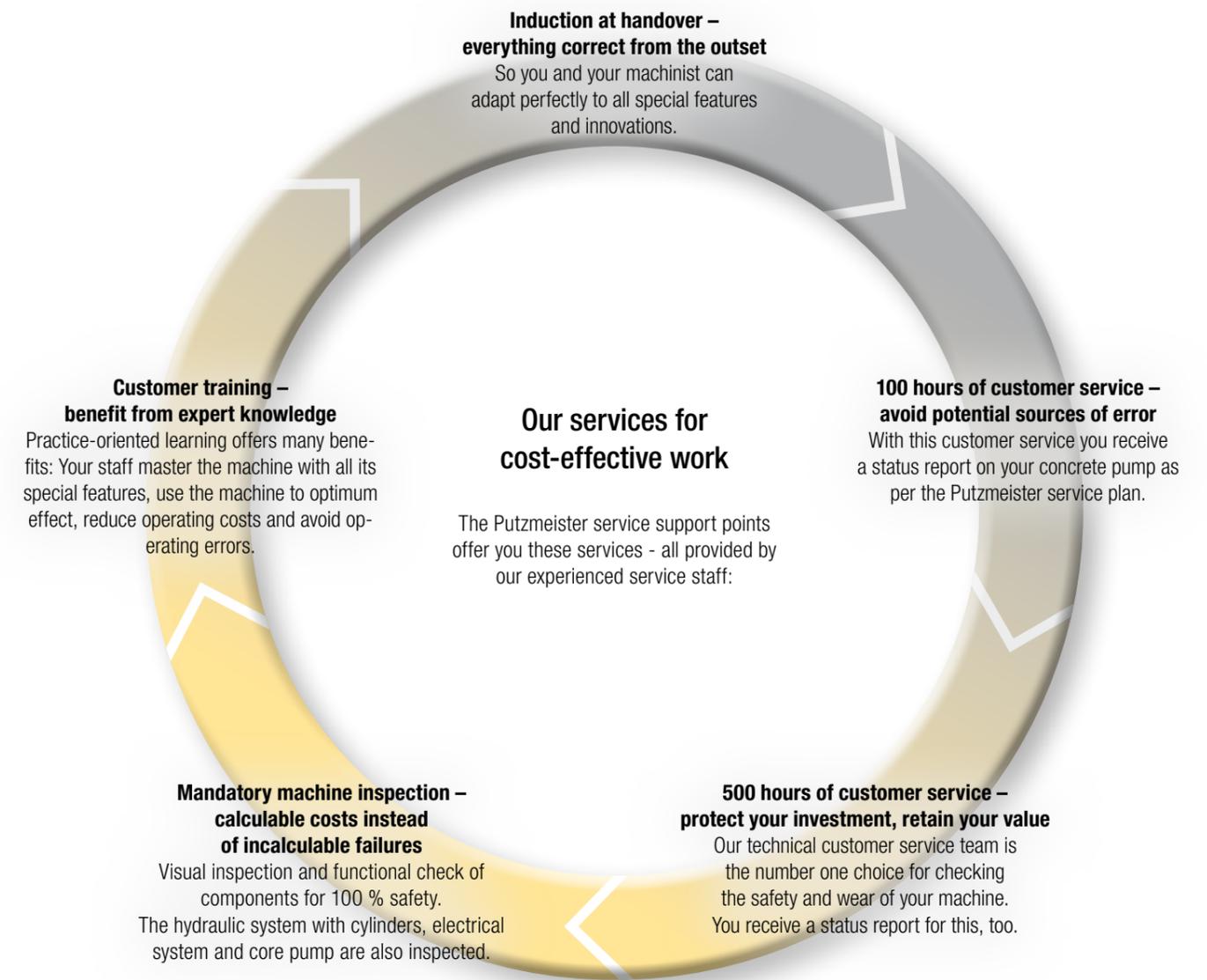
It goes without saying that we use only genuine Putzmeister parts in our workshops. This is the only way to guarantee consistent quality, checked for interoperability. And you can be absolutely sure that your machine meets the tough requirements with maximum performance and availability.



### Excellent in quality and customer proximity

In case of need, you have two options: Either the service team visits you or you take your machine to one of our service workshops. The latest tools, software analysis solutions and genuine parts ensure that your machine is operable again immediately.

All Putzmeister workshops and the workshops of our international Putzmeister partners meet our high-quality standard. Especially when it comes to manufacturer's inspections and acceptance procedures in accordance with specifications.



## Our range of training courses and seminars:

### For concrete pump operators

- Training and development seminars on concrete pumps
- Training and development seminars on PUMI with piston and rotor pumps
- Regional/company seminars (in your region or on your premises)

### For concrete pump mechanics

- Training and development seminars on concrete pump

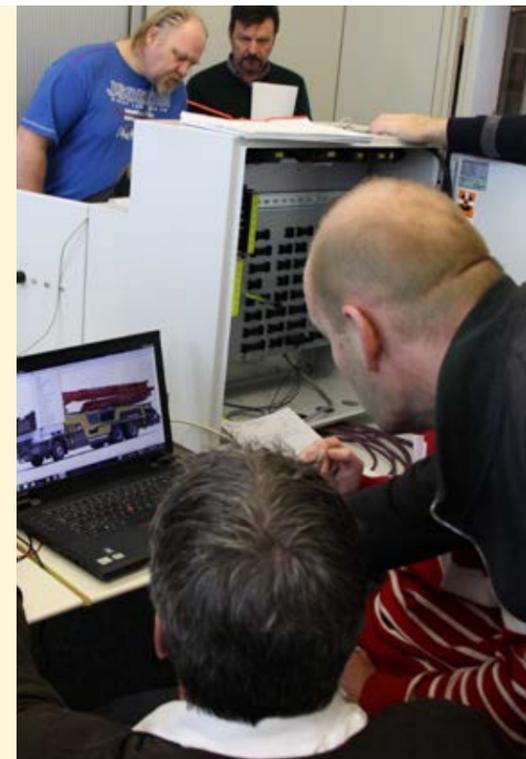
### For concrete pump machinists and mechanics

- Practical days in Aichtal
- Training: Handover and induction, on-the-job training

### For workshop managers and foremen

- Overview of current developments in Putzmeister concrete pumps
- Qualification at the customer workshops for requisite maintenance work

Further information can be found at: [www.pm-akademie.de](http://www.pm-akademie.de)



# The M38 at a glance

## Benefits for you at a glance

- **Smooth 5-arm placing boom** with RZ-folding, optimum flexibility, lower unfolding height and optimum slip characteristics
- **Versatile use on job sites**, whether operating in low buildings, concreting ceilings, working on base plates, etc.
- **Efficient working** thanks to logical, sophisticated ergonomics
- **Use on almost any job site** thanks to flexible support
- **Robust and stable** due to reinforced base structure, compact boom pedestal, boom line installation, etc.
- **Maintenance- and service-friendly** as a result of its optimised accessibility and consistent screw concept
- **Lower service costs** thanks to maintenance-free components, fewer different types of components (e.g. only three standard elbow types) and smaller quantities of functional fluids



Note: The diagrams in the brochure do not necessarily correspond to the full scope of standard equipment for the machines.  
Further brochures: Ergonic® 3 CT 5013



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