

ergonic[®]
inside 3



Ergonic[®] 3 – Modern concrete pumping: Precise, intuitive and reliable!

User-friendliness made by Putzmeister

CE Version
for EEA
incl. CE marking

Ergonic® 3 – highlights

JUST AS EASY TO HANDLE AS ALWAYS – 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, 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.

ergonic®
inside 3

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 additional, new and future-oriented functions are integrated.

The result has many benefits:

- # 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.

Pumping made smart

If our concrete pumps form the heart of Putzmeister machines, then the Ergonic® 3 system is the brain.

As a switching centre, the micro-processor-supported control systems regulate the functions of concrete pumps, mixers and placing booms.

Always by your side – Ergonic® inside

- # **iBC – intelligent Boom Control** Controls and regulates the movement of the placing booms, ensuring an increased placement rate and simple and safe operation.
- # **EPS – Ergonic Pump System** Takes over control of the concrete pump for all-round optimised pumping.
- # **EOC – Ergonic Output Control** Regulates the optimum motor speed, ensuring that the concrete pump operates smoothly with fuel efficiency and low wear.
- # **iSC – intelligent Setup Control** The safety system regulates the interaction between the flexible support and working areas.
- # **EMC – Ergonic Mixer Control** Operates the mixer drum by radio remote control, including adding water and cleaning.

SIMPLE OPERATION

Intuitive and almost self-explanatory, including for less experienced machine operators

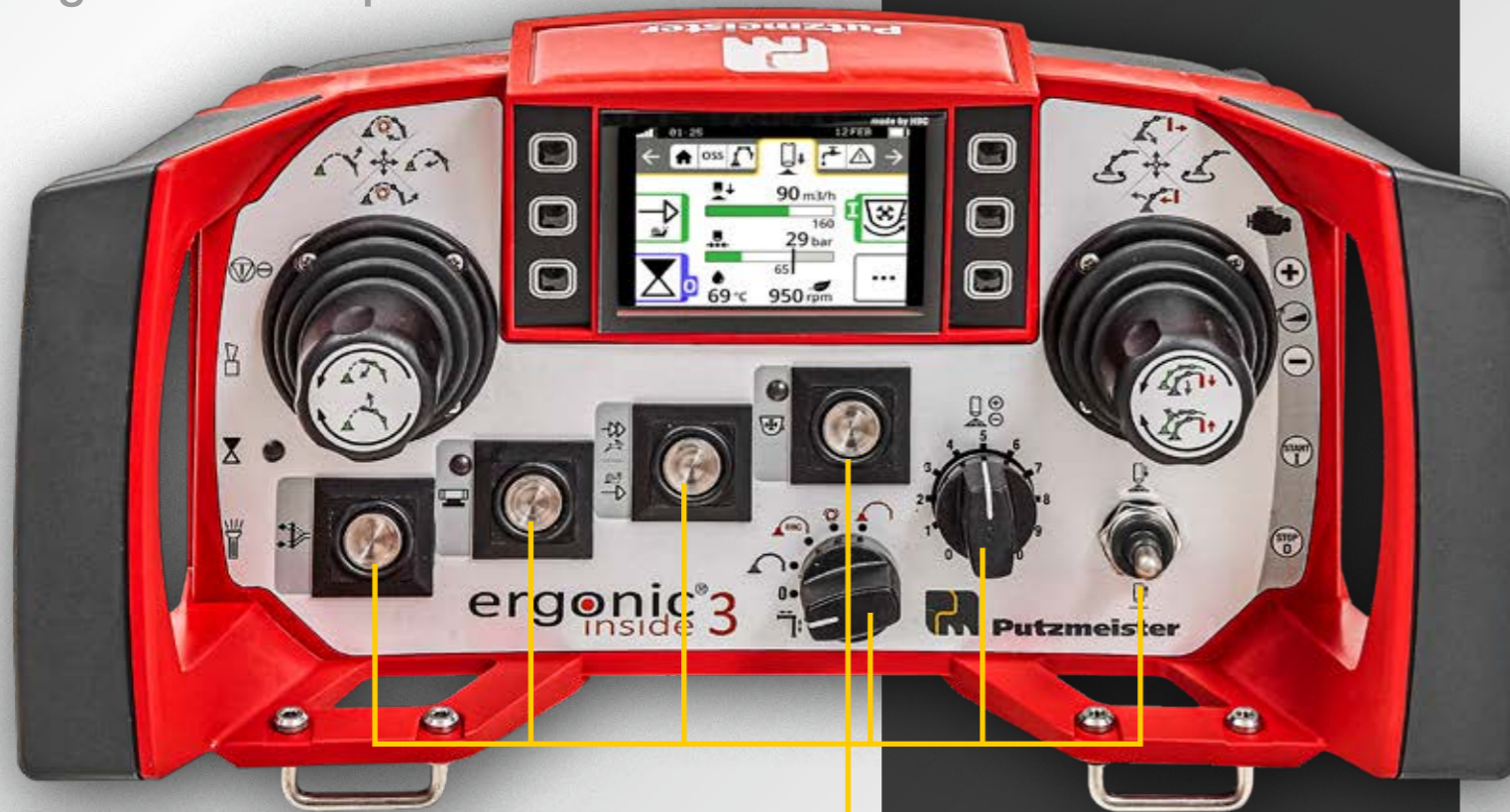
RELIABLE OPERATION

With a continuous operating concept and comprehensive fault management for a greater scope of action

DETAILED FAULT MANAGEMENT

To prevent downtime, there are comprehensible fault messages with suggested solutions – the job can almost always be completed with manual control.

Ergonic® 3 – operation



WORKING WITH A SMILE:
INTUITIVE, EXACT AND EASY

Concrete action

Basic concrete pump functions can also be controlled via hardware buttons, independent from operation via the display.

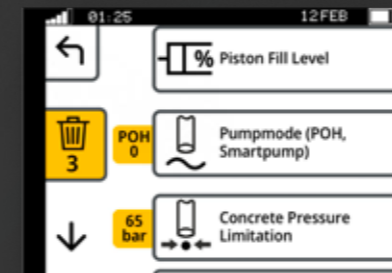
Quick-access buttons lead directly to results and are easy to operate even while wearing gloves.

Keeping an overview – in every situation

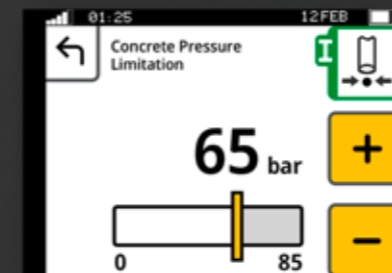
- # The “static” menu bar guides users through the menu – with no chance of “getting lost”.
- # Neatly and intuitively arranged functions.
- # Simple menu structure with a maximum of two submenu levels.
- # Main menu with all standard functions and additional details in submenus.



Main menu



Submenu level 1



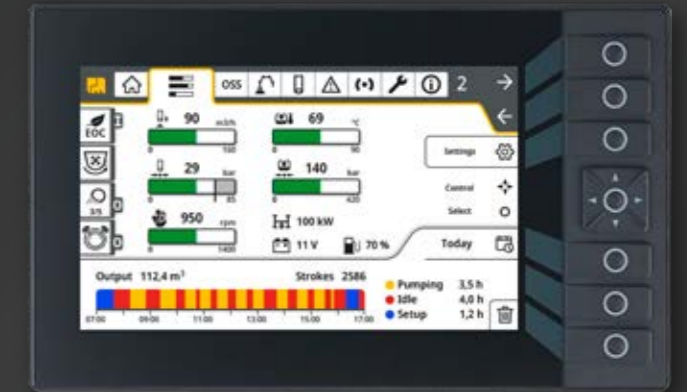
Submenu level 2

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.



Detailed setting options and a great deal of information makes it easier to understand the device.

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!



CONCRETE

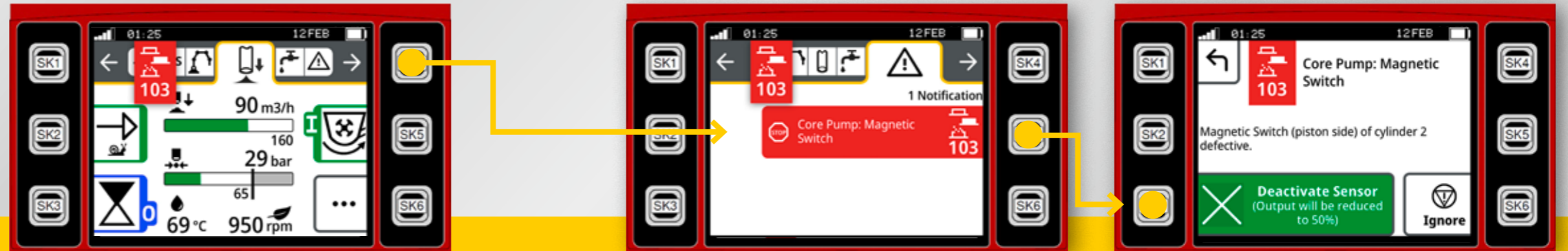
Robust switches for basic functions ensure easy handling.

INTUITIVE

Easily comprehensible functions and work steps ensure focused working.

PRECISE

With the Ergonic® 3, you are using the powerful pump optimally and controlling the boom extremely precisely.



NO DOWNTIME

Clearly guided fault management on the radio remote control and the graphic display

SIMPLE FAULT MANAGEMENT – FAST HELP

- # If worst comes to worst, machine operators receive a clear and comprehensible fault message that includes possible causes.
- # The exact installation position of the affected component is specified with images and clear descriptions. This makes it easy to detect and replace defective fuses for example.
- # A great variety of suggested solutions are stored in the system. Machine operators can make many settings themselves directly on the machine to prevent a standstill.
- # Emergency operation with manual control enables machine operators to safely complete a job they have already started.



REACTIVE

- # The comprehensive and reliable fault management perfectly prevents unwanted machine downtime.



ERGONIC® 3

ALWAYS READY FOR THE FUTURE

A FUTURE-ORIENTED SOLUTION

Interfaces for future expansions are already set up and software updates are easy to perform. So your Ergonic® 3 is always up to date.

SERVICE-FRIENDLY CONCEPT

Services can be access quickly and implemented efficiently to achieve maximum availability. That is true for the entire Putzmeister fleet.

iBC – intelligent Boom Control

**EXTREMELY
PRECISE
BOOM
MOVEMENTS**

iBC

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.



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.

Additional safety for complex obstacles

A maximum and minimum value can be specified for every hinge position. The intelligent teach-in function transfers the limits for the uppermost hinge to all others, for example to prevent collisions with the ceiling in low buildings.



iSC – intelligent Setup Control

OUR MOST SUPPORTIVE SYSTEM EVER

iSC

MAXIMUM VERSATILITY

The iSC support system adapts the machine to any and all conditions on the construction site. The machine operator sets up the machine according to the space available on-site – and iSC will take care of everything else. Even in the most difficult of conditions. The system directly calculates the best support option, taking into account the tilt and set-up situation.

MAXIMUM REACH

iSC enables a greater reach than ever before. In combination with the reliable reach prediction, machine operators can utilise the robust steel structure of Putzmeister machines to its fullest potential. This ensures optimum planning ability and provides a real competitive advantage on every construction site.

MAXIMUM SAFETY

100 % safety, no small print. Machine operators can always rely on iSC. The system guarantees stability in any situation. The patented drop warning and the possibility of providing additional support help machine operators in difficult conditions. By taking into account the concrete weight, it is also not necessary to reduce the working range when starting to pump.



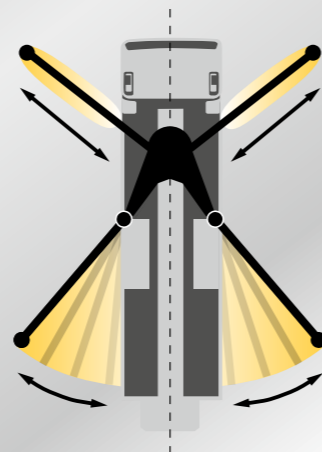
On the safe side

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. Incorporating all relevant variables directly on the construction site results in a perfect combination of maximum stability and maximum reach. In this way, iSC can perfectly support machine operators on-site in any situation.

Increased limits thanks to FLEX base structure

The support provided for Putzmeister concrete pumps has become more and more flexible over the past years. For the swinging support legs, it is already fully flexible and offers a variety of intermediate positions for the forward support legs. The combination of iSC and the substantially optimised steel geometry now enables a level of flexibility not seen before.

With the new **Putzmeister FLEX base structures**, supporting and setting up the machines is no easier and more flexible than ever before – and therefore incredibly straightforward for machine operators.



Safe support at a glance

Clearly structured figures in real time, intuitive operation and a radio remote control make setting up on the construction site quick and easy.

Ergonic® 3 – work with a smile

Your benefits at a glance

- **Easy, intuitive and precise operation** – With a clear menu structure and intuitively arranged functions, work becomes quick and precise
- **Routine and reliable operation** – Thanks to the 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) – machine operators can fully focus on their work.
- **Working without downtime** – Thanks to the intelligent fault management, faults are easy to detect and rectify – even without a Putzmeister technician. The multi-level emergency operation keeps the machine running even in the toughest conditions and in virtually every case.
- **Working with a smile** – All the positive experiences machine operators have made with our control systems are also found in the Ergonic® 3. What's new: Hardware and software are perfectly matched. The "static" menu bar comprehensively guides users, making it almost impossible to "get lost" in the menu. The menu structure with a maximum of two submenus is simple and clear. All standard functions are already contained in the main menu. This means machine operators can keep an overview in every situation.



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