The next generation of the 42-5: Setting new standards for truck-mounted concrete pumps
Not simply improved, but completely redesigned

Fifty years of experience in the development of concrete pumps means innovations time and again. These innovations revolutionise the pumping and delivering of concrete. This is always based on the tried and tested, robust concrete pumps from Putzmeister, which are constantly being improved upon and adapted to meet modern demands.

With the 42-5 from the new generation, we have gone one step further: We took the basic idea and then completely rethought and redesigned it. Countless suggestions from customers, operators, suppliers and Putzmeister employees have flowed into the project. From this emerged an innovation that is setting standards on the market.

No fear of the scales
The resulting new design, from the boom tip to the base structure, makes a gross weight of less than 32 t possible, incl. sufficient reserves for payload, equipment, water and fuel.

Better in every respect
The concept for the new 42-5 was completely revised and scrutinised, always with the operator in mind. The 42-5 has gained increasing importance when it comes to operation, safety, operating costs and service in particular.

Calculated and tested
All essential components have been calculated using modern methods. Extensive field tests verify the maturity and reliability of the machine.

- A gross weight of less than 32 t incl. sufficient reserves for payload and operating materials
- Steady boom, thanks to the intelligent installation of the delivery line and the harmonious, continuous rigidity of the steel structure
- Improved safety, thanks to compliance with all the latest standards and codes of practice, e.g. CE Machinery Directive
- Service-friendly as a result of its optimised accessibility and consistent screw concept
- Lower service costs thanks to maintenance-free components, fewer special components (only 3 standard delivery line bends) and lower volumes of functional fluids (oil volume reduced by 300 l)
The boom – optimised right down to the finest detail

Ready for a wider range of applications, thanks to the high level of flexibility

- The 5-arm boom with “real” roll-Z-folding system provides an extremely high degree of flexibility and, as a result, ensures economical use in many applications.
- The lack of dead space (area that cannot be reached by the boom tip) and the outstanding slip characteristics ensure that the new 42-5 can even be used where some other machines have to pass by.
- Comprehensive utilisation of the net reach thanks to the optimised kinematics

Safety is at the forefront during operation

- When designing the arm assembly, particular attention was paid to user-friendliness and safety.

When customers require a service

- Service-optimised and easy to retrofit thanks to the screw-fitted pipe bracket and exclusive use of standard delivery line bends. For example, only three types of standard delivery line bends are now used, whereas seven types were used in the past.
- No need for laborious alignment of the delivery line when replacing pipes
- Longer service life for the delivery line as a result of the wear-optimised 45° delivery line bends with long collars in every quality type
The new base structure – improved stability, longer service life and lower costs

Stable in the smallest space

- Securely supported by the tried and tested TRDI support, devised by Putzmeister.
- Support width is less than 8 m
- One-Side-Support (OSS, optional) if space is tight: support width – front 4.8 m, rear 6.2 m
- Double telescoping support legs can also be placed between obstacles
- Optimum net reach as a result of tight set-up dimensions

Lower costs and improved service

- The maintenance-free components, the comprehensive screw concept and the consistent use of the same parts all reduce the operating and maintenance costs significantly.
- Reduced service effort and lower costs thanks to the excellent accessibility to all system components

More space for more accessories

- The open and wide flatbed with anti-slip surface provides sufficient space for accessories and increases accessibility for maintenance and service work.

Longer service life thanks to the new frame concept

- The new I frame and connection concept increases flexibility in the base structure. Improved torsion characteristics when compared to rigid frames lengthen the service life and significantly improve the driving characteristics.
For the 42-5, there is the tried and tested range of pumps from 14 H, 16 H and the wear-optimised, slow-running 16 H LS.

Wear-optimised and service-optimised
- Non-bending direct deck piping without offset bends
- Easy-to-replace cylinder-sealing kits
- Core pump mounting suspension with no welding joints
- Simple and robust bearing of S transfer tube and hopper
- Simple replacement of components thanks to the consistent screw concept
- Vibrator can be positioned as required thanks to the screwed-in grille
- Optimised S transfer tube bearing

Less hydraulic fluid means lower costs
- Thanks to the new type of hydraulic fluid management, combined with the tried-and-tested Free-Flow-Hydraulics from Putzmeister, the hydraulic fluid volume can be reduced by a staggering 300 litres. But the consistency of the hydraulic fluid quality has also been improved.
- The fluid cooler that is integrated into the support leg ensures optimal cooling of the hydraulic fluid, even in OSS operation.

With EPS – Ergonic® Pump System – ensuring perfect operation. As standard!
- Smooth pumping process
- Fewer noise emissions and lower fuel consumption thanks to EOC
- Low wear
- Fault management
- Fully electronic control of the concrete pump
- Vibrations in the machine and boom are reduced
- Fewer hydraulic components
- EOC (Ergonic® Output Control) is included in EPS

Safe design and operation
- Universal conformity in accordance with the CE Machinery Directive and international standards and licensing regulations
- Use of new technologies, such as RFID
- Option to integrate underride protection
- Slip-resistant folding steps
- Working platform available as an option
- Railings, flatbeds, plates, etc.

Operating and service costs
- By avoiding using special components, parts are more readily available, your storage costs go down and identification is made easier.
- Optimised accessibility to system components improves servicing times and therefore reduces periods of in-operation and downtime of the machine.
- Continuous optimisation in terms of service life
- Maintenance-free components
- Consistent screw concept and avoidance of rigid welded joints
- Fluid volume reduced by 300 litres!
Practically equipped

Water tank with 800 l capacity (as standard)

Galvanised folding steps (as standard) and folding underride protection (optional)

Sponge ball container (as standard)

The new working platform provides optimum access (optional)

Docubox for delivery notes (as standard)

Sponge ball container (as standard)

Technical data

Technical data pumps

<table>
<thead>
<tr>
<th>42-5</th>
<th>BSF</th>
<th>Output (m³/h)</th>
<th>Pressure (bar)</th>
<th>Stroke (mm)</th>
<th>Cylinder ø (mm)</th>
<th>Strokes/min</th>
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<td>70</td>
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All data theoretical maximum values · Standard boom pipework: pressure up to max. 85 bar.
Max. delivery rates and max. concrete pressures cannot be operated at the same time.

Dimensions are model-dependent and may vary:
total height ≤ 4000 mm, total width ≤ 2500 mm.
Gross weight depending on equipment and chassis ≤ 32 t