









Stationary concrete pumps

Pent-up power – incredible stamina

Higher, further, faster ...



World record holder that proves its capabilities all over again every single day

No matter what you have in mind, our stationary concrete pumps are more than equal to the task. After all, back in 1977 during the construction of the Frankfurt telecoms tower, it was a Putzmeister concrete pump that pumped to a height of 310 metres - the first of its world records! As early as the following year, we outperformed ourselves during the construction of the Gotthard road tunnel, when we pumped concrete up a height difference of 340 metres over the impressive distance of 600 metres. Then, during construction of the Burj Khalifa, the highest building in the world, concrete pumps from Putzmeister were once again involved. The height difference for pumping operations there was 606 metres, meaning that we set yet another record in 2008. Why are we telling you all this? So that you can know that (almost) nothing is impossible, providing that you want to create something genuinely remarkable.



Economical pre-cast solutions with stationary concrete pumps

Smooth logistics is essential for largescale projects. Precast part plants are often set up temporarily beside the construction site. Putzmeister components are also used there in order to manufacture the necessary components on time and at a high quality.

Our solutions are economically viable in plants that process all kinds of pumpable concrete for medium and larger precast part elements.

The BSA series with electric drive is the best choice for precast part plants because they are extremely low-noise.

They are also available with environmentally friendly diesel engines for temporary precast part plants. Our comprehensive range offers the right performance for your application.



Good for more than pumping high and pumping far – these pumps are good for almost anything

The construction of a high-rise building in Dubai presents different requirements than work on the Yeywa hydro-electric power station in Myanmar (Burma). Construction of a rail link in Tibet at an altitude of 5,000 metres is a significantly different proposition to working on the Sutong Bridge in China where Putzmeister pumps had to contend with an extremely inhomogeneous and coarse-grained material. How much concrete needs to be transported, how far in terms of height, distance or both in such cases? What are the ambient conditions and what is the quality of the concrete? Questions that you have to ask yourself prior to every practical application.

However, regardless of the task for which you wish to employ our pumps, machinery has to withstand everyday working conditions. That explains why we only provide products that are extremely robust, reliable, user friendly, fuel efficient and have a long life.

This in turn means that you will quickly establish, as you will continue to do for many a long year, that your decision in favour of Putzmeister was the right one — because you are able to work very productively with our pumps, because they are very easy to handle, because their operating costs are very reasonable, and because you seldom need to give any thought to service and maintenance.



Expertise gives you a leading edge – not all concrete is equally good

Consistent planning for extensive projects

For large projects in which heavy concrete needs to be moved very high or very far, you need more than the required delivery performance, you also need an appropriate total solution. Machines, concrete spreaders, accessories and service should all be carefully matched to achieve a good ratio of productivity to cost-effectiveness.

For process-optimized planning of your delivery tasks, you can rely upon our engineers to give you professional advice. Not only when you are involved in construction sequence planning and set-up at the building site, but well beforehand. For example when computing the delivery pressure or testing the 'pumpability' of the material you will be using. This makes it possible, where necessary, to have some influence on the concrete recipe at an early stage in proceedings. Which in turn assures an optimum match between concrete and pump, and a very efficient delivery processes as an outcome.



Every country has its own specific concrete

Wherever concrete flows, the material that comes into contact with it becomes worn. Abrasion and other damage to components such as concrete hoppers, transfer tubes, agitators, pumps and delivery lines are unavoidable. The extent of the wear depends on the composition of the concrete. Concrete differs significantly from country to country and even within a country.

The ingenious geometry of Putzmeister concrete pumps was designed for all standard concretes. Delivery and drive cylinders operate in perfect harmony with one another to ensure the machine performs outstandingly in combination with all other components. As a result, our pumps can deliver even the heaviest grades of concrete at output rates of up to 200 $\rm m^3/h$ without requiring the installation of additional equipment. Specific details such as durable delivery pistons, standard chrome-plated delivery cylinders and the S transfer tube system designed by Putzmeister ensure that all machines are able to withstand long periods of intensive use.





Our pumps – exemplified in use

Using an example, we would like to show how concrete can be placed in high-rise applications: In the example a mixer (1) delivers the concrete to the pumping process. The stationary pump (2), in this example a BSA 2110 HP D, then pumps the concrete into the delivery line. Under high pressure, the concrete reaches the end hose of the stationary boom (3) and is introduced into the formwork. Once the work is complete, the cleaning process starts. A stop valve (4) briefly closes the pipeline so that the gate valve (5) can be switched to the cleaning line. The residual concrete is then drawn back down the delivery line, starting with the aid of compressed air from the stationary boom, and returned to a second mixer

Minimise wear – maximise service lives

Although unavoidable, wear can be minimised by taking a few effective measures. The following solutions are provided by Putzmeister:

- A hard chrome layer on the delivery cylinders assures long service life and protects against corrosion
- Special protection of wear-intensive areas of the S transfer tube through chrome plating, deposit welding or wear-resistant casting inserts
- S transfer tube manufactured from thick-walled special castings is designed to cope with problem grades of wear-intensive concrete
- Piston wear sleeves enable just the ring to be replaced rather than the entire component
- Carbide wear part set and long-life pistons – 2-4 times longer service life



Above-ground civil engineering — where stationary can also be very flexible

Working under high pressure

A concrete pump and its accessories are subjected to a very particular kind of stress loading when required to pump concrete upwards. For example, if required to pump concrete up to extreme heights the delivery pressure needs to be correspondingly high. This is needed in part to overcome the height differences and in part because the return flow of concrete develops a counteracting level of energy. This of course necessitates a correspondingly high level of motor or engine power. Moreover, the machine has to be built to withstand the enormous forces to which it is subjected in operations such as this.



Burj Khalifa: world record for this gigantic skyscraper

Reliable advances in the construction of the Burj Dubai (Dubai Tower), which at over 828 m was the tallest building in the world on completion, were secured by several powerful BSA 14000 SHP D super-high-pressure pumps used in conjunction with MX 28-4 and MX 32-4 stationary placing booms. 165,000 m³ of high-strength concrete was successfully pumped to heights in excess of 606 m (world record) and then placed.

Another storey could be concreted every three days – no problem for the potent BSA 14000 stationary pump and its powerful placing booms. These machines are being successfully used in Dubai, as in many other high-rise construction sites around the world.

Thanks to consultancy support from Putzmeister, the optimum solution was found here.



Manhattan Hudson Yards – the new New Yorker Skyline

Between 10th Avenue and West 30th Street, to the west of Manhattan, a new district is being built, similar to the World Trade Center, with apartments and offices. One skyscraper after the other is being integrated into the New York High Line. Not only are architectural best performances required to drive the magnificent glass facades and steel structures into the sky. A sophisticated and well-conceived concrete pumping process optimally adapted to the local conditions and specifications of the construction process is also needed.

With the stationary Putzmeister BSA concrete pumps this is no problem at all, even under the most cramped conditions such as with the Extell skyscraper on 555 10th Avenue. This 53-storey project, which in addition to 598 apartments will also accommodate a student residence with 300 rooms, is being built directly next to the neogothic Church of Saints Cyril & Methodius and Saint Raphael. However, in contrast to the menacing brick facades of the older buildings, the new residential tower with its reflecting glass facade will bring light and splendour over the church.



Building construction – deliberately beyond the ordinary

Project successes can be planned

Bridge construction demands a great deal of know-how from everyone involved. Particularly as far as concreting is concerned, some factors are critical for the project success: such as the consistent high quality of the concrete and a high pumping capacity for the concretes, that are difficult to pump in most cases, as well as for large conveying distances or heights. Efficient solutions are needed that can also withstand extreme cost and deadline pressure.

Stationary Putzmeister concrete pumps are the first choice here. What type? That depends on the required pumping output, the length and diameter of the pipeline, the pumping height, the expected friction factor, and above all, the pumping behaviour of the concrete. This results in the required pumping pressure and driving power of the machine.





Once it is complete, the Storstrøm road and railway bridge will link the Danish islands of Zealand and Falster via the island of Masnedø. It will significantly improve the efficiency of both goods and passenger transport between Scandinavia and Germany.

The construction company is relying on a concrete pump solution from Putzmeister for creating the bridge's precast elements: Foundations, bridge piers and decks. This is because Putzmeister offers the best of both quality and cost-effectiveness.

A total of eight stationary booms in three production halls, which are supplied with concrete by two BSA 2109 H E stationary concrete pumps (with a third on standby) plus a stationary buffer storage underneath each concrete mixing plant, are used to fill the formwork for the elements.



The Fehmarn Belt tunnel the world's longest immersed tunnel

The combined road and railway tunnel underneath the Baltic Sea is intended to link the German island of Fehmarn with the Danish island of Lolland. With 18 km, it will be the world's longest immersed tunnel and will comprise a total of 89 prefabricated tunnel segments. Each segment is 217 m long and weighs approximately 73,000 t. They are produced on land and will later be towed into the Fehmarn Belt by four barges and lowered to the sea floor, to a depth of 39 m, from there.

The Fehmarn Belt tunnel is Denmark's third crossing project. Among other aspects, the parties involved in the construction can benefit from the experience gained during the large-scale Øresund project, in whose implementation Putzmeister was involved to a significant degree and to great success.

A large contingent of Putzmeister machines and equipment is working to produce the segments in the huge tunnel element factory near Rødbyhavn:

- 15 x BSA 2108 HP E stationary concrete
- 1 x BSA 2109 H D5 stationary concrete pump (standby)
- 30 x MXR 32-4 stationary placing booms
- 20 x RV8 manual rotary distributors,
- 20 x SV7 manual swivelling distributors, suspended
- 2 x KOV 1050 cleaning pumps
- Approx. 14,000 m of ZX 125 delivery lines (130 bar) with more than 1600 delivery line elbows and more than 2500 couplings, 53 hydraulic GVH gate valves, etc.







Underground civil engineering – far-reaching challenge, maximum output levels

Specialist underground civil engineering – intelligent technology for specific tasks

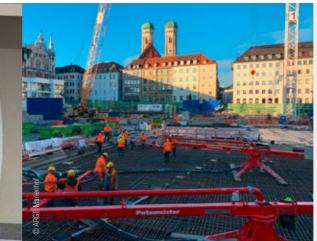
Adaptability for tunnel construction

One challenge in the construction of tunnels is placing concrete in the formwork on the tunnel walls. With a combination of intelligent concrete logistics and the Putzmeister innovation Formkret, installation times can be reduced and safety on construction sites improved while deploying fewer personnel.

The electro-hydraulically powered Formkret system controls the concrete flow with two-way valve technology and is firmly fitted in the formwork. Since all Formkret valves are connected with a single pipe train, the formwork can be filled continuously without interruptions or the need for conversion work.

This wet spray concreting process is a very cost-effective technology in modern tunnel construction, and the fast-acting S transfer tube technology enables concrete to be sprayed very uniformly and smoothly by Putzmeister pumps and shotcrete machines.





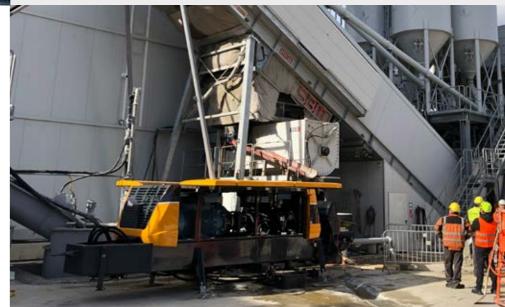
Munich U-Bahn station "Marienhof" 40 m below ground

The new station in the heart of Munich is located underneath the Marienhof square north of the New Town Hall on the east-west line.

The station construction utilises subterraneous curtains, that is walls concreted into the floor, and a top-down construction with cast concrete top covers.

One BSA 2111 HP E stationary concrete pump and two RV12 Lift rotary distributors, as well as a P 715 TE Synchro, which is used for concrete spraying among other tasks, are deployed for this.





Nant de Drance – Outstanding performance through experience

In the Valais Alps between Martigny (CH) and Chamonix (F) the Nant de Drance power plant was completed by 2018. The pumpedstorage power plant with a turbine output of 900 MW can produce around 2,500 million kWh of electricity annually.

Apart from more than 400 workers, numerous Putzmeister engineers and machinery were also deployed for a total of 17 km of tunnels with 1.7 million m³ of rubble during the underground construction work in the mountain region.

Altogether, five stationary concrete pumps of type BSA 2107 HP E (2 x), BSA 2109 H E $(1 \times)$ and BSA 1408 E $(2 \times)$ with the help of two Putzmeister stationary booms MX 32-4 Multi including accessories pumped approximately 360,000 m³ of concrete. Both the high-quality equipment as well as the good preparation contributed to the great success of the work. The Putzmeister engineers had developed the concept for the concreting as well as for the cleaning, particularly for handling the water necessary for this. Thanks to the already proven sliper tests that had been carried out in advance for determining the concrete characteristics, the concrete formulas could be adapted optimally to the subsequent pumping capacity.





The wet spraying concreting process is a very cost-effective technology for Here, small machines have their place even on large construction sites. For they are mobile, quickly ready for use and can be deployed easily even on the most difficult terrain. When building dams, for example, loose stones on the relatively steep mountainsides have to be secured against slipping before flooding. This is often done with shot-

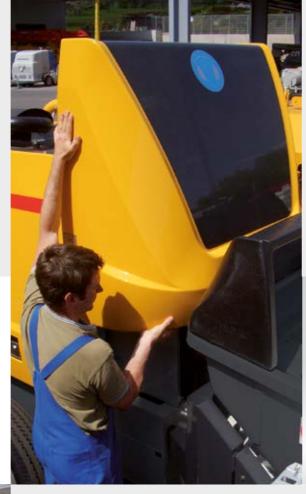


Massive force and very well-behaved

Practical details that almost turn work into a fun activity

Working with our pumps not only needs to be productive and economical, it also needs to be as pleasant and convenient as possible. After all, a day on a building site is hard enough work and sufficiently taxing on the nerves as it is — so the equipment involved should alleviate that as much as possible. Consequently in the design of our concrete pump, we have focused consistently on the need for good access to all machine components, ease of handling and straightforward cleaning and maintenance. The result is noticeable on a daily basis and in the long run and in overall terms it's indispensable.





Maximum transparency and clear layout

At the EGD (Ergonic® Graphic Display) the driver can view all relevant machine data and set or adjust individual parameters. Thanks to a reliable fault management system, the machine can be fully operational in the event of a fault, and even in emergency operation. If non safety-relevant components such as sensors fail, they can be switched off allowing you to continue working undisturbed. Up-to-date feedback and system information for the machine appear in real time on the display.







Hot air with good ducting

Thanks to extremely good air flow the doors can always remain closed during operation. The hot exhaust air escapes to the front, and not into the operating area. That improves the workplace conditions of the pump operator and also cuts the ambient noise levels on the construction site.

Just work more comfortably

The operating controls of the cable remote control and radio remote control have been reduced to their essentials. After all, anything unnecessary distracts from the actual work and costs time. All functions are neatly arranged and can be quickly understood at a glance. This is what we call user-friendly.





The radio remote control (optional) allows the machine to be controlled over long distances

Cable remote control easy to connect

Easily accessible so that everything runs smoothly

Well thought-out in every detail

During the construction of our cement pumps, we have paid strict attention to good accessibility of all machine components, simple handling as well as uncomplicated cleaning and maintenance. The result can be noticed daily in every detail and in sum total is indispensable over the long term

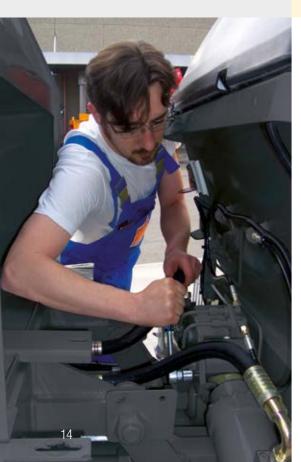
Other advantages in terms of operation, cleaning and maintenance

- The position of hydraulics and changeover cylinder outside the concreting area prevents pollution
- External gate valve connection (standard from 1,400 mm stroke)
- Easy to change all components on the S tube
- Fast piston change using water boxes that open at top
- Rapid supply of all the main lube points in the hopper area by the central lubrication unit

- Optimised hopper shape simplifies the job of cleaning, reduces interruptions in the supply of concrete and cuts down on concrete residue
- **Smooth outer surface** simplifies the job of cleaning
- Enlarged support area and longer service life through angled support legs
- Practical mechanical winch for set-up work, with a lifting force of 3 tons (standard from 2,100 mm stroke)
- **Hydraulic support foot** optional from 1400 series upwards
- Additional lashing of the machine via defined lashing eyes for transport or fixing on the construction site



Swing doors, for example, ensure easy access, and protect the machine operator from rain and sun while working inside the machine



Good access for service work



Freely accessible water connection



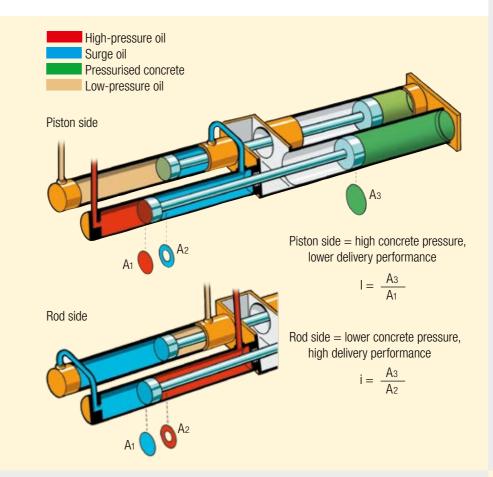
Mini-measuring strip: All hydraulic measuring points at a central location (BSA latest generation)

Its greatest strength is its great strength!

The very finest of power transmission and technology, especially when the going gets tough

What is it that makes Stationary Concrete Pumps from Putzmeister so very special — so extremely capable? As always, the answer lies in their internal core values. The individual components, i.e. motor or engine, piston pump with free-flow hydraulics and S transfer tube interact perfectly to deliver optimum pump power and ultimately quiet operation. Even when delivery lines with large diameters are connected up, concrete flows almost continuously and so evenly that the end hose is easy to direct.



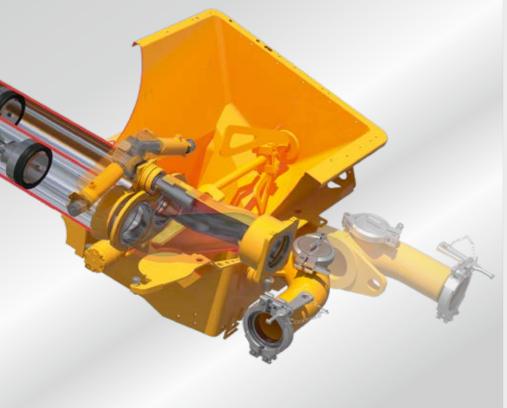


The long-stroke piston pump

Our high-performance pumps employ a piston stroke of up to 2,100 mm, delivering volumes of up to 200 m³/h with unrivalled low levels of operating noise. Another advantage is the minimal amount of wear in spite of the large number of strokes. Greater volumes mean fewer strokes and therefore less wear. A hard chrome layer on the delivery cylinders and the central lubrication system extends the service life of the pistons and cylinders.

By way of example, here is the 2110 HP D:

Pressurisation	rode side	piston side
Output	102 m³/h	70 m³/h
Pressure	150 bar	220 bar
Ratio i=1:	2.3	1.6
Strokes/min	26	18



The S transfer tube

The impressive tube is highly versatile in delivering difficult concrete mixes such as hydro concrete or mixes consisting of broken quartz, granite or basalt.

In order to handle such wear-intensive materials particular emphasis was placed on a long service life. The S transfer tube has therefore been reinforced with hard layer welding. The service intervals are considerably longer and the availability of the machine is greater than other systems. One other advantage is the quick, smooth switchover process which ensures a virtually continuous flow of concrete and minimises vibrations on the machine.

The free-flow hydraulics

Putzmeister places its trust in the benefits of free-flow hydraulics because the most important performance factors are all in place: Concrete delivery pressure, machine weight and costs. When large quantities of concrete are pumped, large quantities of oil also flow inside the hydraulic system. More power is transferred inside a closed free-flow hydraulic circuit because all of the oil is conveyed from the pump to the drive cylinders without loss. That means that less oil is required in overall terms. This reduces costs as well as weight.

Another advantage is that there is just one intelligent block instead of elaborate control blocks, which in turn means that the oil does not get too heated.

The main advantages at a glance

- Electric motors and diesel engines — a choice of different performance ratings and emission classes
- Long-stroke piston pumps for maximum performance and ultraquiet operation combined with minimal wear
- More power transmission provided by the closed circuit, free-flow hydraulics
- S-transfer tube can even cope supremely well with materials that are difficult to pump, and assures a uniform flow of concrete

17

16

Nothing can make these pumps 'lose their cool'

EPS – Ergonic® Pump System – user-friendly, economical and extremely productive

Ergonic® inside — synonymous with optimised fully-electronic control and regulation of the concrete pump. How do you benefit? Your machines are ready to use more quickly, achieve a higher placement speed, operate extremely economically and are resistant to wear.

EPS – (Ergonic® Pump System) regulates operation of the concrete pump and the engine or motor. A computer-assisted control is installed in place of the hydraulic control.

The effect: Fewer hydraulic components, less wear, less energy consumption and the pumping process is quieter and more balanced. Vibrations from the machine are reduced, which not only protects the concrete pump but also soothes the nerves of local residents and construction site workers. EPS ensures the pump operates more quietly, even if the delivery rate is high.



The advantages at a glance

- Low wear
- Vibrations in the machine are reduced
- Minimal noise during the optimised pumping process
- Includes EOC (Ergonic® Output Control); regulates the engine to the perfect speed to minimise fuel consumption, wear and noise
- Fault management via EGD (Ergonic® Graphic Display)
- Less heat generated
- Fewer components and therefore lower service costs
- Comfortable cable remote control (optional wireless control)
- **High machine availability**thanks to high-quality components
 and rapid (remote) diagnostics

An important component of EPS: EOC (Ergonic® Output Control)

EOC is fundamentally important for efficient operation and cost savings, because EOC controls the (diesel) engine speed with lower fuel consumption, wear and noise.

Unfavourable areas are automatically avoided. The machine operator adjusts the delivery rate of the pump directly using a rotary knob on the radio remote control and the EOC selects the perfect speed. It is not possible to set the minimum delivery rate and the engine speed to full throttle at the same time with EOC. Whenever the concrete pump is shut down, the engine returns to idle speed, which can save up to 10 per cent fuel consumption.





With everything that goes along with it

Mobility and rugged durability are not mutual exclusives

Various robust, hard-wearing chassis units, all manufactured to superlative quality standards are available for all Putzmeister pumps. Depending on the intended application, you can choose between sled chassis or chassis units licensed for on-highway operation. They are all wear-resistant and low-maintenance units, and are guaranteed to keep their promise in terms of durability and stability thanks to the specially designed BSA base frame.



Special shape slide frame

F80 road running gear



The only obstacles are on paper

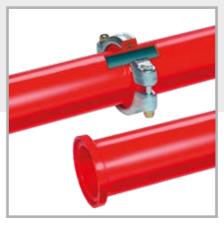
To ensure that concrete gets to where it is needed, delivery line systems are there to bridge distances. That might involve a height auto concrete pumps. Extension lines, difference, a long distance, the negotiation of bends, travelling below ground or through water – there are virtually no obstacles that cannot be overcome using the right delivery lines and the corresponding range of accessories. Putzmeister therefore has the right system and optimum quality standards for every task. For smaller volumes of concrete

at lower pressures, the SK system is ideally suited, and is also used in conjunction with particularly with hoses, are best combined with the exceptionally flexible Ultraflex® System PX. When it comes to long delivery distances (of more than 100 m approx.) or height differences in excess of about 100 metres, the Zentrifix® System ZX is the ideal choice. It can withstand extreme pressures, it is absolutely leak-proof and is particularly

wear-resistant at the connections. The combinability of these individual systems and their appropriate accessories e. g. couplings, adapters, reducers and auxiliaries for cleaning, help to further extend the range of applications.



SK standard coupling system



ZX delivery line system



PX hose system

Practical accessories – Original Putzmeister

Sophisticated and practical - for your stationary concrete pump you have a comprehensive range of machine-type-dependent equipment (standard or optional) in good Putzmeister quality.

- Organic fluid package
- Electric central lubrication system
- Partial flow filter

- Foldable spray guard
- Vibrator
- Rubber collar

- Hopper extension
- Second gate valve connection (from 1400 class)
- Remote control with 10 m cable, further cable extensions optionally available



concrete pump



The vibrator assists with optimal filling of the The electric central lubrication system saves time and minimizes wear

21 20

Greater efficiency and fewer emissions with the BSA D5

The aim: cleaner air – the approach: reduction in harmful emissions

Regulations designed to gradually reduce the concentration of pollutants in exhaust gases from diesel engines were introduced in Europe and the USA in 1996. STAGE V for mobile construction machinery, including stationary concrete pumps, **came into force in Europe and the USA on 1st January 2019**. New mobile construction machinery operated in the corresponding countries must now meet the new restrictions specified for STAGE V, so that it will be possible to operate these machines in sensitive areas such as inner cities or conservation zones in the future.

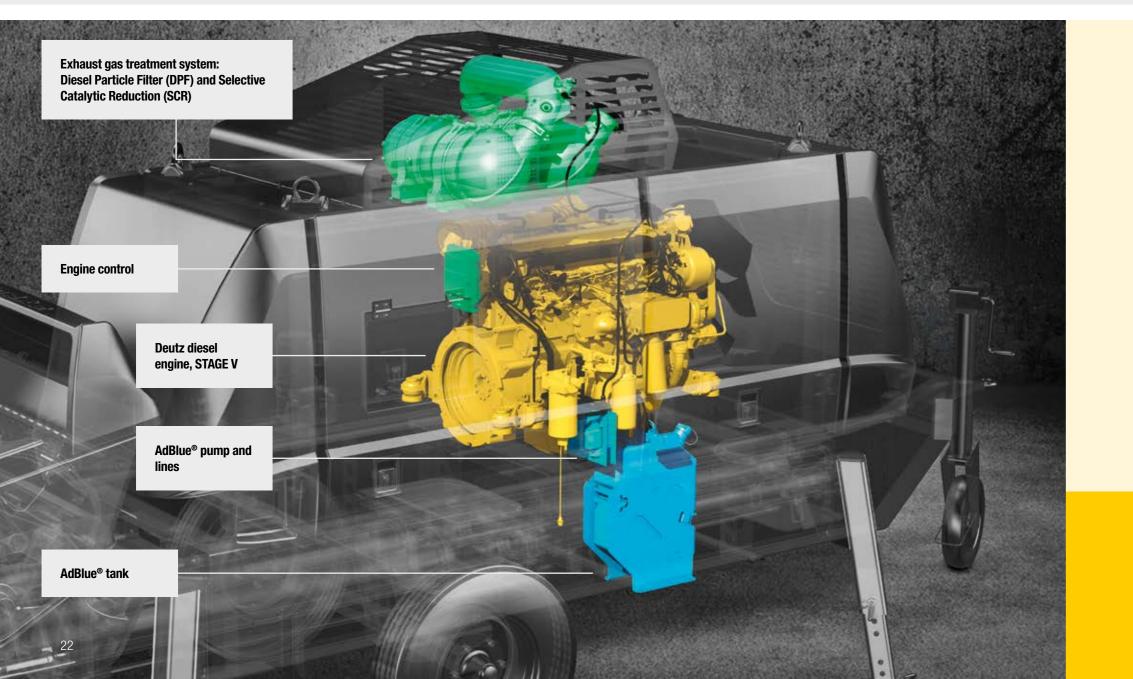
Potential savings: lower fuel consumption

We had one rather ambitious objective during the further development of our BSA diesel models: to harmonize the emission directives in line with our customers' needs. The aim was to increase the future competitiveness of the pumps by ensuring the new BSA range was producing more power and giving reduced fuel consumption in compliance with the new emission standards.

The right method: exhaust gas treatment

The BSA D5 models feature efficient exhaust gas treatment systems that incorporate a Diesel Particle Filter (DPF) which reduces soluble particles and diesel soot, and at the same time Selective Catalytic Reduction (SCR) to reduce nitrogen oxides.

New machines can only be refueled with diesel fuel that does not contain sulphur, and the addition of a urea-based exhaust gas purification fluid called AdBlue® is also essential.



The main advantages of the BSA D5

- Compliance with Directive STAGE V
- Smoother running performance that protects the machine
- Reduction in noise development
- Reduction in average fuel consumption of up to 10%, resulting in lower operating costs



Pumps that grow alongside their appointed tasks...



2110 HP D5

102 m³/h

220 bar

340 kW ²

200 mm

2100 mm

9300 kg

BSA 1000

The compact multi-purpose concrete pump, fitted with a Deutz diesel motor of emissions level STAGE V or an electric motor is suitable for flexible use on small construction sites and for concrete wet spraying – anywhere where space is limited. Normal concrete of up to 32 mm grain can be pumped with no problem at all.

1005 E

47 m³/h

180 mm

1000 mm

3000 kg

45 kW (electric)



1006 E	1005 D5	1006 D5	BSC 1005 D5	BSC 1006 D5
59 m³/h	52 m³/h	64 m³/h	52 m³/h	64 m³/h
55 bar	70 bar	55 bar	70 bar	55 bar
45 kW (electric)	55,4 kW (diesel)	55,4 kW (diesel)	55,4 kW (diesel)	55,4 kW (diesel)
180 mm				
1 000 mm				
3 000 kg	2900 kg	2900 kg	4 100 kg	4000 kg

STAGE V

BSA 2100

The long stroke concrete pumps with high performance and high pump pressures are ideally suitable for use that involves long pumping distances. With 220 bar maximum pump pressure and an output of up to 102 m³/h you are on the safe side even in building construction. Diesel motors of STAGE IIIA are also available in the BSA 2100 class.



	2108 HP E	2109 H E	2111 HP E	2109 H D	2110 HP D	2109 H D5
Output up to	79 m³/h	85 m³/h	105 m³/h	95 m³/h	102 m³/h	95 m³/h
Concr. pressure up to	220 bar	152 bar	131 bar	152 bar	220 bar	152 bar
Engine	250 kW ¹	160 kW ¹	250 kW ¹	200 kW ²	330 kW ²	225 kW ²
Delivery cylinder	200 mm	200 mm	230 mm	200 mm	200 mm	200 mm
Piston stroke	2100 mm					
Weight	8600 kg	6600 kg	8 600 kg	6300 kg	8800 kg	6800 kg

¹ electric ² diesel STAGE V

BSA 1400

Output up to

Delivery cylinder

Piston stroke

Engine

Weight

Concr. pressure up to 70 bar

Reliable all-round concrete pumps for medium performance ranges. The models with electric motors are well suited for tunnel concreting. The models with diesel drive are optionally available with STAGE IIIA motors or with STAGE V motors for EU countries.



	1408 E	1408 H E	1409 D	1409 HP D	1413 D	1409 D5	1409 HP D5	1413 D5
Output up to	52 m³/h	77 m³/h	98 m³/h	92 m³/h	130 m³/h	98 m³/h	92 m³/h	130 m³/h
Concr. pressure up to	109 bar	109 bar	109 bar	152 bar	82 bar	109 bar	152 bar	82 bar
Engine	110 kW ¹	110 kW ¹	155 kW ²	155 kW ²	155 kW ²	180 kW ²	180 kW ²	180 kW ²
Delivery cylinder	200 mm	200 mm	200 mm	200 mm	230 mm	200 mm	200 mm	230 mm
Piston stroke	1 400 mm							
Weight	5900 kg	7000 kg	5000 kg	6100 kg	5 100 kg	5600 kg	6500 kg	5500 kg

BSA 14000

Everything is possible with these pumps – Pressure and pumping output are almost endless here. 250 bar concrete pressure of the BSA 14000 SHP contributed to the success when building the Burj Khalifa (Dubai), the tallest building in the world. Thanks to the engine with emissions level STAGE V, it can be used in Europe and the USA.



	14000 HP D	14000 HP D	14000 HP E	14000 SHP D	14000 HP D5	14000 SHP D5
Output up to	84 m³/h	102 m³/h	74 m³/h	72 m³/h	84 m³/h	72 m³/h
Concr. pressure up to	231 bar	220 bar	220 bar	250 bar	231 bar	250 bar
Engine	470 kW (diesel)	470 kW (diesel)	320 kW (electric)	470 kW (diesel)	470 kW (diesel)	470 kW (diesel)
Delivery cylinder	180 mm	200 mm	200 mm	180 mm	180 mm	180 mm
Piston stroke	2100 mm	2100 mm	2100 mm	2100 mm	2100 mm	2 100 mm
Weight	10 500 kg	10500 kg	10 500 kg	11 000 kg	10 800 kg	11 000 kg

STAGE V STAGE V ¹ electric ² diesel

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Build on Putzmeister – in service, parts, training

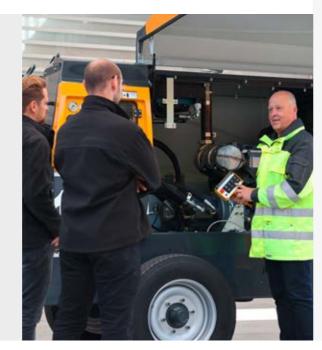
Everything that sets service apart

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.



Putzmeister



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 offers for efficient work

The Putzmeister service points offer you these services, among others – carried out without exception by our experienced service staff.

Customer training – benefit from expert knowledge

Practice-oriented learning offers many benefits: Your staff master the machine with all 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.

Induction at handover – everything correct from the outset

EINWEISUNG

KUNDENDIENS

So you and your machinist can adapt perfectly to all special features and innovations

100 hours of customer service – avoid potential sources of error

With this customer service you receive a status report on your concrete pump as 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. You receive a status report for this, too.

Not all services are the same

You can choose between remote service via remote access or an expanded service and display in the Machine Cockpit

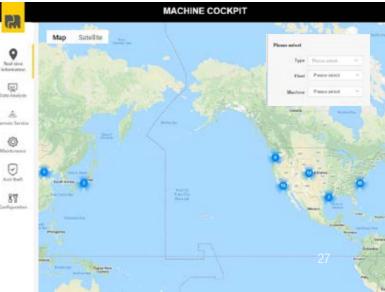
Remote service

 Remove service: Putzmeister Service can read out machine data remotely and provide support for troubleshooting. Increases the productive time on the construction site and reduces downtime

Machine Cockpit (incl. all benefits of remote service)

- **Real-time data:** Information about the entire fleet available at any time in clear layout
- **Data analysis:** The most important machine parameters like fuel consumption, utilisation, status, pumped volume, etc. at a glance for easy analysis
- **Maintenance summary:** Service tool for the entire fleet with summary of all pending maintenance with operating hours meter, prevents unexpected downtime
- **Geofence:** Sends warning via e-mail if the machine leaves a pre-defined corridor





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Stationary concrete pumps at a glance

- Very highly developed in all performance and price classes, and tried and tested in many extreme applications
- Remarkably robust and wearresistant, designed for a long service life
- Broad performance range makes the potential applications on construction sites and in industry very versatile indeed
- Extremely powerful performance in the transport of concrete, in terms of height and of distance
- Many user-friendly details ensure easy operation and maintenance
- Available with diesel engine or electric motor, to suit the intended application and country of use
- BSA 1408 H E the specialist in **pre-cast continuous operation**

- Successful combination of all components such as drive unit, long-stroke piston pump, free-flow hydraulics, S-transfer tube and EPS electronic control unit (Ergonic® Pump System) for exceptionally high performance and uniform concrete flow
- Comprehensive, practical equipment configuration as standard, and a functional range of accessories assure flexible application options and a high level of machine utilisation
- Wide range of options for perfect adaptation to customer and construction site requirements
- Excellent service from Putzmeister maximises the availability of your stationary concrete pump



Further brochures: BSA 1000 CT 4950
BSA 1400 CT 5197
Ergonic® 3 CT 5013 / 5053
Delivery line systems PM 2300
MX Stationary Booms CT 2059
Efficient precast part production CT 4273



Putzmeister Concrete Pumps GmbH

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