



Putzmeister



BSA 1409 D

Innovation boost for more efficiency and cost effectiveness

No half measures
when it comes to work



Everything that is good – Putzmeister pumps

Why choose a stationary concrete pump from Putzmeister? Because the inner values are just as important! The individual components, such as the engine, piston pump with free-flow hydraulics, S transfer tube and the computer-based EPS (Ergonic® Pump System) control system interact perfectly to deliver optimum pump power and ultimately quiet operation. The reliable all-round concrete pumps in the 1400 series excel particularly in the mid performance range - tunnel concreting, high-rise pumping and backfilling.

The main advantages at a glance

- **Increased delivery rate** with the use of a new hydraulic oil pump
- **Minimal susceptibility to corrosion and fewer uncontrolled motions (i.e. less wear)** with new, one-part C-frame design
- **User-friendly operation** thanks to transparent control panel and electrical activation of agitator and shut-off valve
- **Central grease lubrication** of hopper, manual or automatic (optional)
- **Reduced service costs** thanks to maintenance-free components, fewer special components, fewer operating materials and improved accessibility for maintenance tasks

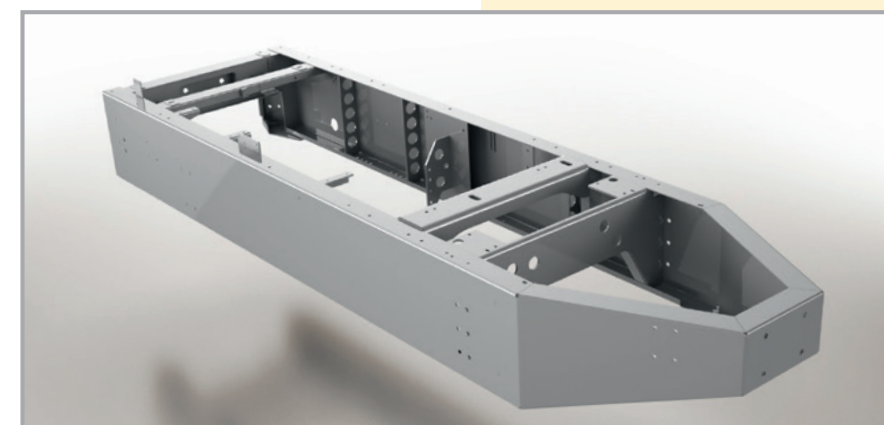


Optimal frame conditions

The new C-frame design offers many practical advantages. The one-part solution impresses particularly when it comes to durability, because the design is not susceptible to rust. And the fixed frame also encourages fewer uncontrolled motions during operation, thus ensuring enhanced smooth running and less wear of all components.

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.



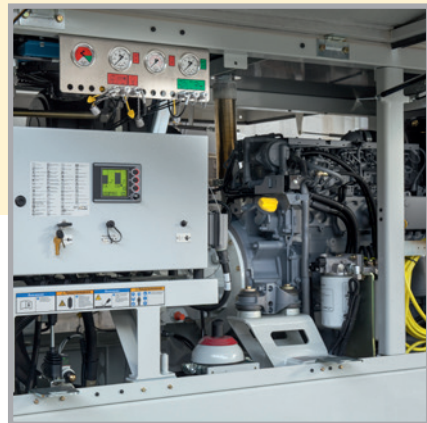
The C-frame at a glance

- **Fewer uncontrolled motions** thanks to one-part, fixed frame
- **Universal application** for various engine types
- **No corrosion** at welds or joints

Guaranteed profit zones – Design, hydraulics and hopper

The design at a glance

- **All functions positioned on one side of the machine** – facilitates work with the machine
- **Time-savings thanks to centralised lubrication system**, manual or automatic (optional, also for retrofitting)
- **Electrical activation of core functions** for more convenient operation
- **Large space** for service and maintenance tasks



Substantial space – A design which fulfils its function

The BSA 1409 D boasts optimal points of view for service and maintenance tasks thanks to the more compact design. With the space-saving arrangement of components such as the engine or hydraulic control or the electrically activated oil cooler, more space remains in the machine. Any work to be carried out on all components can thus be completed comfortably.

Convenience is also very important during operation. All functions can be operated from one side of the machine and from one position and the agitator, flushing water pump and gate valve can now be easily controlled electrically. The new centralised lubrication system is also easy to use, and can be operated manually with an integrated hand-lever press or automatically (optional).



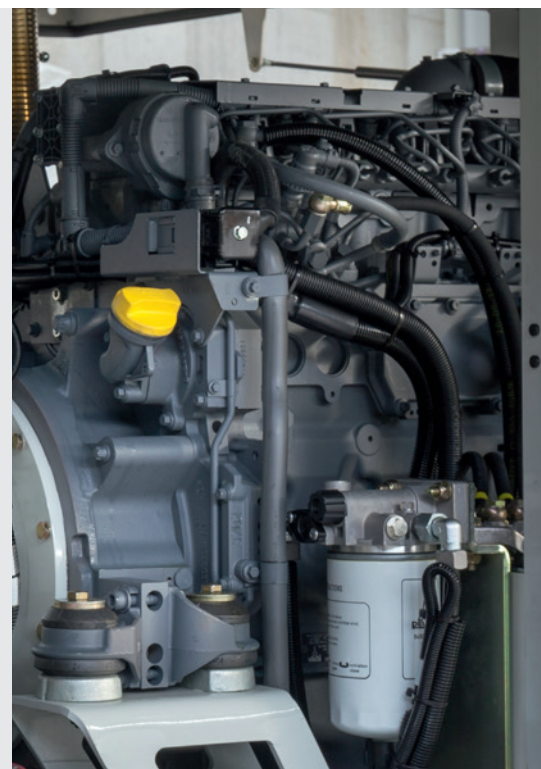
More efficient – Cost-saving hydraulic components

Further developed under high pressure, actively implemented – the hydraulic system of the new BSA 1409 D. The result is a hydraulic pump which works more efficiently with fewer components and is more environment-friendly. The electrically activated hydraulic cooler also ensures efficiency. Because it only cools as required. The machine is thus always at an ideal service temperature regardless of the environmental conditions.

The BSA 1409 D possesses the latest version of hydraulic control. You gain from

the tried-and-tested benefits of the computer-based pump control system and the closed circuit of the free-flow hydraulics. With an improved pump seal, now even less oil is required than before. In addition, the new system requires considerably less space and facilitates service work on the inside of the machine.

Speaking of service: You will rarely need to carry out service work on the hydraulic filter. Because it is no longer made from steel, but from non-corrosive aluminium.



The hydraulic components at a glance

- **New hydraulic oil pump** – fewer components, higher delivery rate
- **Electrically activated hydraulic oil cooler** ensures ideal service temperature
- **Hydraulic control via EPS FFH** – less oil, lower spatial requirement
- **Hydraulic filter made from aluminium** – no rust



Time-savings – Longlife hopper

The new hopper of the BSA 1409 D combines experience and innovation. For example, the design of the hopper components was optimised. The S tube shaft bearing has a conical shape, which leads to less wear of the bearing and the shaft.

Another new feature: The BSA 1409 D now has a powerful agitator drive. This saves costs and minimises the risk of an incident.

Safe working conditions. The maintenance-free agitator safety shutdown via RFID (Radio Frequency Identification) with safeguard against restart detects the opening of the agitator grill with help of electromagnetic shafts – and automatically shuts it down.

The new, space-saving plastic cover at the plunger cylinders offers optimal protection and improved accessibility to the components.



The hopper at a glance

- **New conical S tube bracket** – less wear at bearing and shaft
- **Maintenance-friendly hopper grill** – enclosed hopper grill brackets, rods can be easily replaced because only screw-on parts, and new gaskets for agitator flange
- **Agitator safety shutdown via RFID** (Radio Frequency Identification)
- **Practical safety lid** at damper – improved accessibility to components

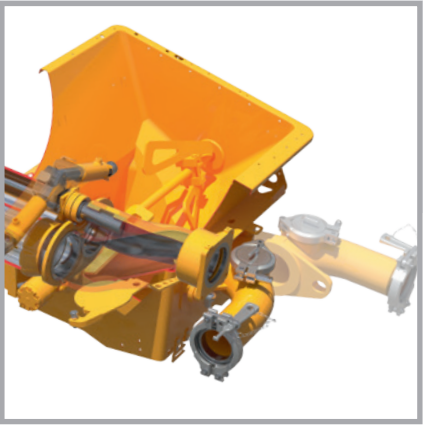
The BSA 1409 D



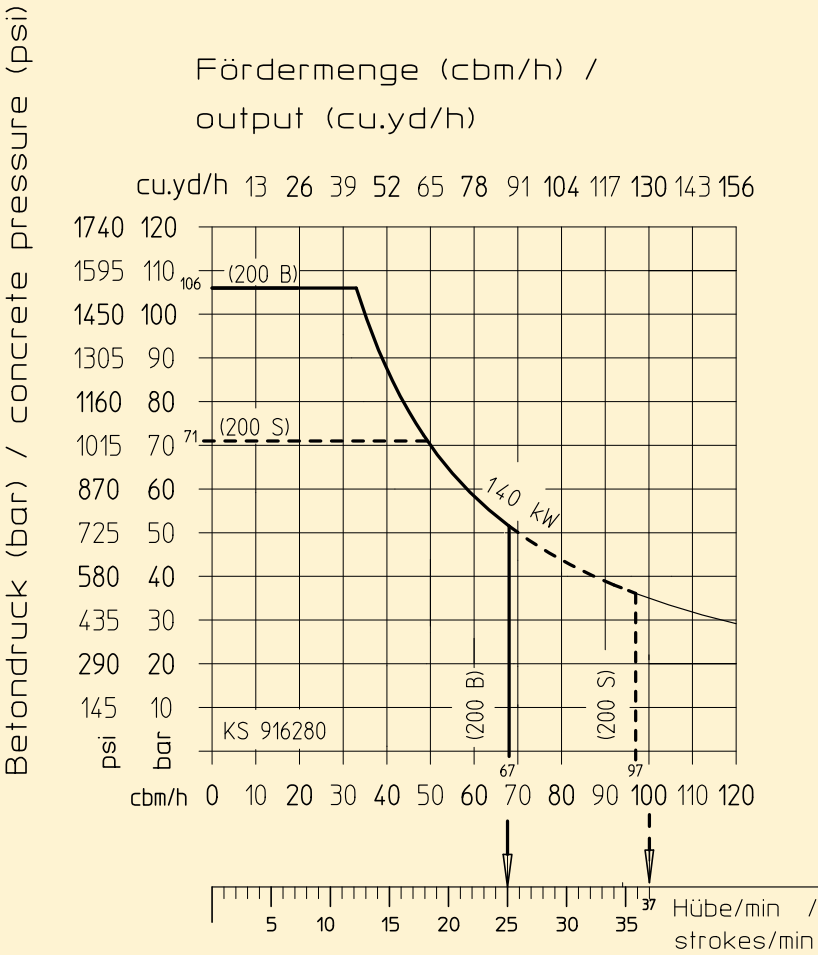
Technical data

Output	97/67* m³/h
Delivery pressure	71/106* bar
Delivery cylinder	200 mm dia.
Delivery cyl. stroke	1400 mm
Strokes / minute	37/25*
Engine power	140 kW
Hopper	RS 909
Capacity	approx. 600 l
Fill height	1.3 m
Transfer tubes	S 2015 D
Line connection	SK 125 mm
Pressure connection	6"
Control system	EPS FFH
Weight	4600 kg
Material number	102348.000

* Optional, values for hydraulic fluid fed to piston-side
All data are maximum theoretical



Hopper with transfer tube



Serial equipment

Drive diesel, Deutz 6-cylinder 140 kW

Concrete hopper with agitator

Operating manuals
(1 × paper, 1 × CD-ROM), spare parts lists

Tool set incl. standard equipment

Trailer F8, travelling in site

Centralised lubrication on hopper with hand lever press

Grill 70 mm

Cable remote control 10 metres

Coloring: Cover chrome yellow / black

Pump, frame and trailer light-grey

Roof and splash guard black-grey

Reduction bend 90°; SK 150 -> SK 125

Cleaning accessories

Agitator safety switch off

Gate valve connection

Splash guard

Flushing water pump 50 l/min 20 bar

Support legs 4 ×, mechanical

Support wheel

Coupling ring (DIN)

Ergonic equipment

Speed drawdown automatically on pump stop

Ergonic Graphic Display (EGD)

Electronic error management

Electric delivery pressure setting

Electric output regulation



Cable remote control



EGD – Ergonic Graphic Display

Putzmeister service at a glance

- **Service centres** in more than 150 countries worldwide
- **Individual training courses and seminars** in the Putzmeister Academy
- **24-hour emergency service** in Germany
- **Expert advice and planning support** for large projects, e.g. for concreting logistics, processes and technology from Putzmeister project engineers
- **Tested original parts** with warranty and a 24-hour delivery service
- **Manufacturer's inspection according to the requirements of the VDMA** (German Engineering Federation)

If you have any further questions we are happy to answer them:

spareparts@pmw.de
(for spare parts queries)
services@pmw.de
(for technical queries)

The BSA 1409 D at a glance

- **Higher delivery rate of 97 m³/h, at 106 bar concrete pressure**
- **Hydraulic control via EPS FFH** – less oil, lower service costs (smaller oil change quantity), environment-friendly
- **Minimal susceptibility to corrosion, improved durability and fewer uncontrolled motions (less wear)** with new, one-part C-frame design
- **User-friendly operation** from one side thanks to transparent control panel
- **Agitator safety shutdown via RFID** (Radio Frequency Identification)
- **Central grease lubrication** of hopper, manual or automatic (optional) for the reduction of daily maintenance tasks
- **Reduced service costs** thanks to standard components, fewer operating materials and improved accessibility
- **Comprehensive, practical standard equipment** and a functional range of accessories assure flexible application options and a high level of machine utilisation



Further brochures: stationary pumps CT 2632
delivery line systems PM 2300
Ergonic® CT 4690



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