



BSA SERIES | HIGH PRESSURE, HIGH PERFORMANCE TRAILER PUMPS

BSA SERIES



POWERFUL PERFORMANCE ACROSS MULTIPLE APPLICATIONS

PROVEN RELIABILITY

Only Putzmeister has the technology to combine both high output and high pressure in one pump. Our extended line of BSA Series trailer pumps, from the BSA 100 Series to the BSA 14000 Series, facilitate pumping in a wide variety of applications, such as high-rise and long-distance concrete pumping, tunnel construction, sludge pumping and other specialty jobs.

KEY ADVANTAGES

- High output and high pressure in one pump
- Convenient controls
- High pressure S-Valve
- RS 905 Hopper
- Rugged delivery cylinders
- Heavy-duty tandem axles
- Putzmeister's exclusive Free Flow Hydraulics
- Tier 4 emissions compliant
- Gate and diversion valves

2



PUTZMEISTER BSA SERIES ADVANTAGES

CONVENIENT CONTROLS

The control panel is fully enclosed for weatherproof wear and includes an emergency stop button. The remote control, with 33 ft. (10m) of cable, features pump on/off, pump forward/reverse and stroke change. An auxiliary hydraulic connection on the pump is standard for the 2100 and 14000 Series.

MAKING QUICK WORK OF TOUGH MIXES

Our powerful pumps handle the harshest mixes with pumpable consistencies down to a 0" slump, with a max 2.5" (63mm) aggregate size.



Optional high pressure flushing water pump for easier and more effective clean-out.

HEAVY-DUTY TANDEM AXLES

Designed for highway travel and job site use, the steel frame trailer is fully equipped with four manually-operated outriggers and a front jack stand with a support wheel on a tow bar.

RUGGED DELIVERY CYLINDERS

Special hard-chromed material cylinders and automatic central lubrication of the heavy-duty multi-piece piston cup assure long service life.



Optional rod/piston change-over system is designed to be fast and easy to facilitate output or pressure, when needed.



An auxiliary hydraulic connection is included on 2100 and 14000 pumps to operate stand-alone diversion or shutoff valves.



Easy access to engine provides quick maintenance.

BSA TIER 4F EMISSION COMPLIANCE

Meeting the Emission Directive, Exceeding Performance Expectations

Our new BSA D4 models feature efficient exhaust gas treatment systems that incorporate a Diesel Partical Filter (DPF), which reduces soluble particles and diesel soot, and also includes Selective Catalytic Reduction (SCR) that reduces nitrogen oxides. New machines can only be refueled with diesel fuel that does not contain sulphur, and needs the addition of a urea-based exhaust gas purification fluid called AdBlue®.

While our improved BSA trailer-mounted concrete pumps effectively meet all emission requirements, these Putzmeister units do not sacrifice performance. In fact, they offer even greater efficiency than prior models, while also reducing operating costs.

Key Advantages:

- Compliance with Directive 97/68/EC, Tier 4 Final
- Smoother operating performance that protects the machine
- Reduction in noise levels
- Reduction in average fuel consumption up to 10%, resulting in lower operating costs
- Up to 15% more power than similar Tier 3 engines
- CE mark



RS 905 HOPPER

The RS 905 Hoppers offer more standard features:

- Large capacity hopper
- 21.2 cu ft (600L) capacity (2100 and 14000 Series)
- Wide opening for simultaneous unloading of mixer trucks
- Rubber collar (2100 and 14000 Series)
- Agitator with safety switch-off
- Vibrator
- Grate with splash guard
- Central lubrication

HIGH PRESSURE S-VALVE

Ideal for high pressure applications, the S-Valve features a “thick-walled” construction that maximizes the valve’s life to help reduce wear part costs. It also easily adjusts to compensate for wear. In addition, the S-Valve features:

- Hard-faced, wear-resistant alloys on the spectacle wear plate and automatic seal ring.
- Twin, single-acting hydraulic shift cylinders, mounted outside the hopper, for better protection and easy adjustments.
- Optional carbide wear parts.

GATE AND DIVERSION VALVES

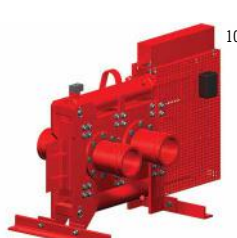
Gate valves and hydraulic diversion valves are completely leak-proof to meet modern pipeline requirements, while hydraulic diversion valves are also ideal for use with two or more delivery lines.



GVM 2/2



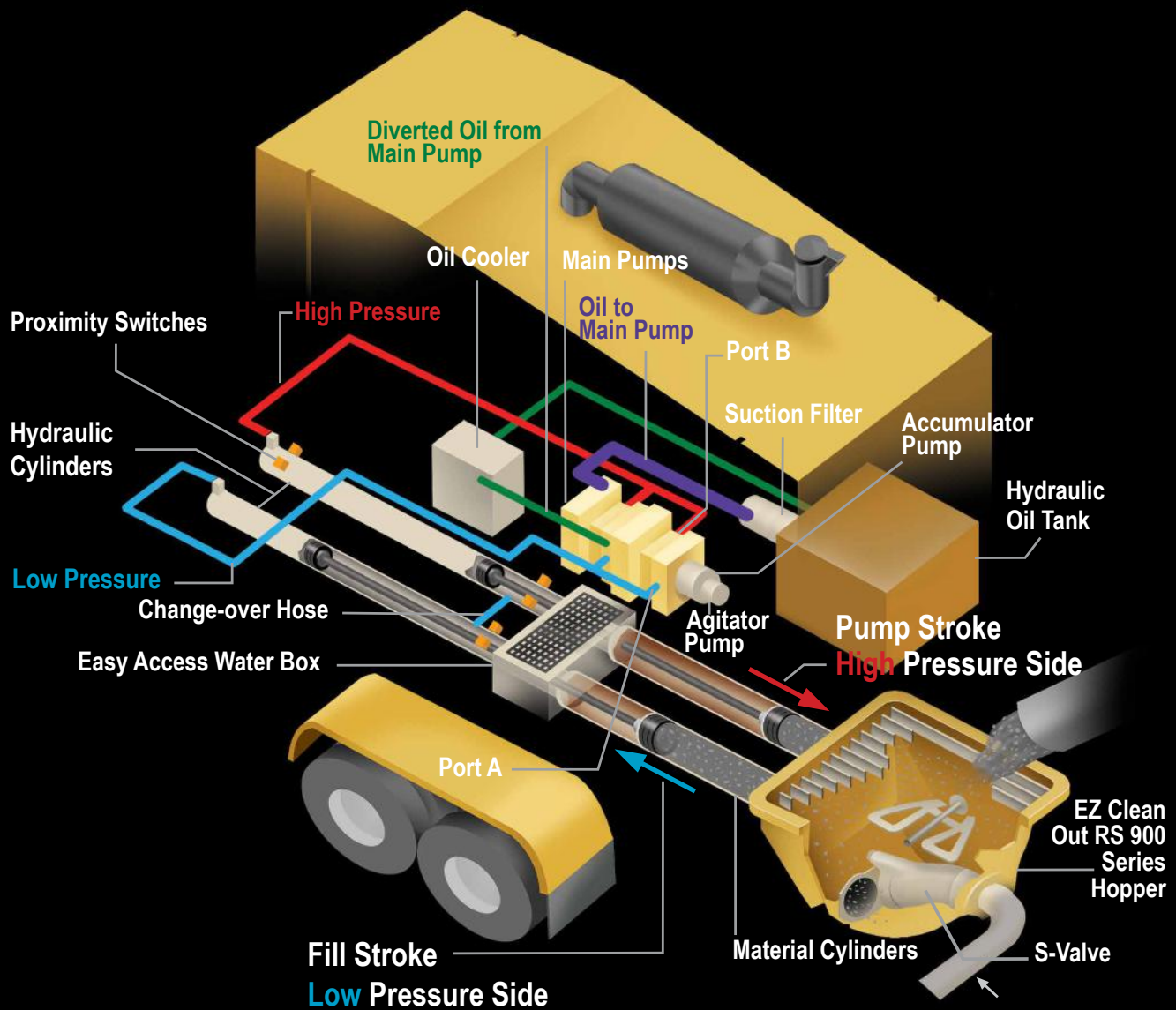
GVHM 2/2



DVH 5/2



SDVH 3/2



PUTZMEISTER | FREE FLOW HYDRAULICS

FREE FLOW HYDRAULICS IN A CLOSED LOOP SYSTEM

Simple and reliable, Putzmeister's closed loop, free flow hydraulics (FFH) design provides a smoother, more controllable and economical approach to pumping. The pump has a fully adjustable volume control to allow very slow pumping while retaining full concrete pressure. Convenient to use and easy to service, this exclusive system is known for its performance and reliability worldwide.

KEY ADVANTAGES OF PUTZMEISTER'S FREE FLOW HYDRAULICS

- Changes in material pressure in the delivery line are reduced to ensure smooth pumping and a consistent concrete flow.
- Intelligent design minimizes wear-inducing pressure peaks, increases service life and makes our pumps extremely powerful.
- Greater pump output is due to the efficient use of all available energy.
- Rapid change-over of the stroke means higher outputs, a smoother flow of concrete and less boom bounce.

PUTZMEISTER BSA SERIES | SPECIFICATIONS

Performance	BSA 100-D	BSA 120-D	BSA 2109 H-D4*	BSA 2108 HP-E*
Maximum Theoretical Output				
Rod Side	104 yd³/hr (80m³/hr)	114 yd³/hr (87m³/hr)	124 yd³/hr (95m³/hr)	124 yd³/hr (95m³/hr)
Piston Side	70 yd³/hr (54m³/hr)*	77 yd³/hr (59m³/hr)*	75 yd³/hr (57m³/hr)	86 yd³/hr (66m³/hr)*
Maximum Theoretical Pressure				
Rod Side	910 psi (63 bar)	1,030 psi (71 bar)	1,320 psi (91 bar)	2,176 psi (150 bar)
Piston Side	1,360 psi (94 bar)*	1,540 psi (106 bar)*	2,205 psi (152 bar)	3,190 psi (220 bar)*
Maximum Size Aggregate	2.5" (63mm)	2.5" (63mm)	2.5" (63mm)	2.5" (63mm)
Technical Information				
Material Cylinders	8" x 55" (200 x 1,400mm)	8" x 55" (200 x 1,400mm)	8" x 83" (200 x 2,100mm)	8" x 83" (200 x 2,100mm)
Maximum Strokes Per Minute				
Rod Side	32	37	24	24
Piston Side	22	25	15	17
Variable Volume	0 to full	0 to full	0 to full	0 to full
S-Valve	S-2015D	S-2015D	S-2015D	S-1812D
Chromed Cylinders	Standard	Standard	Standard	Standard
Hydraulic System	TK	FFH-HD	FFH-EL	FFH-EPS
Hydraulic System Pressure	4,500 psi (310 bar)	5,075 psi (350 bar)	5,075 psi (350 bar)	5,075 psi (350 bar)
Hydraulic Cylinders	4.3" x 2.5" (110 x 63mm)	4.3" x 2.5" (110 x 63mm)	5.1" x 3.2" (130 x 80mm)	6.3" x 3.5" (160 x 90mm)
Hopper				
Model	RS 905A	RS 905A	RS 900H	RS 905HF
Capacity	19.4 cu ft (550L)	19.4 cu ft (550L)	21.2 cu ft (600L)	21.2 cu ft (600L)
Height	52" (1,321mm)	52" (1,321mm)	51" (1,295mm)	50" (1,270mm)
Outlet Diameter	6" HD/SK150	6" HD/SK150	ZX150	ZX125
Power				
Diesel Engine/Motor	Deutz TCD2012L062V	Deutz TCD2012L062V	Deutz	460V 60hz
Engine Horespower	197 hp (147kW)	197 hp (147kW)	268 hp (200kW)	335 hp (250kW)
Trailer				
Trailer Type	Tandem axles	Tandem axles	Tandem axles	Tandem axles
Dimensions				
Length	236" (5,993mm)	236" (5,993mm)	287" (7,300mm)	284" (7,221mm)
Width	75" (1,900mm)	75" (1,900mm)	81" (2,050mm)	85" (2,169mm)
Height	95" (2,408mm)	95" (2,408mm)	98" (2,500mm)	90" (2,277mm)
Weight (approx.)	9,000 lbs (4,083kg)	9,100 lbs (4,130kg)	14,400 lbs (6,530kg)	21,800 lbs (9,890kg)

BSA 100 SERIES



- Durable, global-use flatpack components.
- Long-distance pumping capabilities.

BSA 2100 SERIES



- High performance — long stroke.
- Designed for jobs extending up to 800 ft (244m).

BSA 2110 HP-D4	BSA 14000 HP-E	BSA 14000 HP-D4 7" *	BSA 14000 HP-D4 8" *	BSA 14000 SHP-D4 7"
133 yd ³ /hr (102m ³ /hr) 92 yd ³ /hr (70m ³ /hr)*	116 yd ³ /hr (89m ³ /hr) 78 yd ³ /hr (60m ³ /hr)	110 yd ³ /hr (84m ³ /hr) 74 yd ³ /hr (57m ³ /hr)*	133 yd ³ /hr (102m ³ /hr) 92 yd ³ /hr (70m ³ /hr)*	94 yd ³ /hr (72m ³ /hr) 48 yd ³ /hr (37m ³ /hr)*
2,176 psi (150 bar) 3,190 psi (220 bar)*	2,176 psi (150 bar) 3,190 psi (220 bar)*	2,290 psi (158 bar) 3,350 psi (231 bar)*	2,176 psi (150 bar) 3,190 psi (220 bar)*	3,190 psi (220 bar) 3,626 psi (250 bar)*
2.5" (63mm)	2.5" (63mm)	2.5" (63mm)	2.5" (63mm)	2.5" (63mm)
8" x 83" (200 x 2,100mm)	8" x 83" (200 x 2,100mm)	7" x 83" (180 x 2,100mm)	8" x 83" (200 x 2,100mm)	7" x 83" (180 x 2,100mm)
26 18	22 15	26 17	26 18	22 11
0 to full	0 to full	0 to full	0 to full	0 to full
S-2015D	S-1812D	S-1812D	S-1812D	S-1812D
Standard	Standard	Standard	Standard	Standard
FFH-EL	FFH-EL	FFH-EL	FFH-EL	FFH-EL
5,075 psi (350 bar)	5,075 psi (350 bar)	5,075 psi (350 bar)	5,075 psi (350 bar)	Consult Factory
6.3" x 3.5" (160 x 90mm)	6.3" x 3.5" (160 x 90mm)	6.3" x 3.5" (160 x 90mm)	6.3" x 3.5" (160 x 90mm)	7.9" x 5.5" (200 x 140mm)
RS 905HF 21.2 cu ft (600L) 50" (1,270mm)	RS 905HF 21.2 cu ft (600L) 51" (1,295mm)	RS 905HF 21.2 cu ft (600L) 51" (1,295mm)	RS 905HF 21.2 cu ft (600L) 51" (1,295mm)	RS 905 SHP F 21.2 cu ft (600L) 51" (1,295mm)
ZX150	ZX125	ZX125	ZX125	ZX125
Deutz	460V 60hz	Caterpillar	Caterpillar	Caterpillar
443 hp (330kW)	2x 248 hp (185kW)	630 hp (470kW)	630 hp (470kW)	630 hp (470kW)
Tandem axles	Tandem axles	Tandem axles	Tandem axles	Jobsite axles
304" (7,725mm)	308" (7,830mm)	308" (7,830mm)	308" (7,830mm)	297" (7,545mm)
101" (2,560mm)	101" (2,560mm)	101" (2,560mm)	101" (2,560mm)	92" (2,331mm)
94" (2,390mm)	142" (3,600mm)	142" (3,600mm)	142" (3,600mm)	130" (3,302mm)
22,000 lbs (9,980kg)	23,840 lbs (10,810kg)	24,200 lbs (11,000kg)	25,340 lbs (11,600kg)	24,250 lbs (11,000kg)

BSA 14000 SERIES



- Most powerful concrete pump.
- Multiple cylinder sizes available to fit any job requirements.

Maximum theoretical values listed. Maximum output and pressure cannot be achieved simultaneously. Minimum slump and maximum aggregate size are dependent upon concrete mix design, site conditions and pipeline diameter.

Specifications subject to change without prior notice. Maximum theoretical values listed above. Maximum output and pressure cannot be achieved simultaneously.

* Special equipment configurations required to operate on piston side.

• SBU Standard



Not all parts are created equal. Putzmeister offers longer lasting, better performing parts under increased wear conditions. Our in-stock inventory includes more than 20,000 parts totaling more than \$40 million dollars. This means greater savings and less downtime.

CUSTOMER SUPPORT AND SERVICE

In addition to 24/7 technical support, Putzmeister has experienced Field Service Technicians available for Telebelt start-ups. The comprehensive operators manual and QuickStart DVD program are enhanced by classroom and hands-on service training.

Photos and drawings are for illustrative purposes only.

Authorized Distributor



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