## Top class in power and technology – the newly developed BSS 70-5 semi-trailer machine

tractor unit as the stationary weight. This

design solution reduces the weight

required on the Putzmeister semi-trailer

and allows the narrowest possible sup-

port width. Thus, an angled position be-

## Optimised down to the finest detail

The new BSS 70-5 combines the world's only 69.3 m vertical reach boom with the latest Putzmeister concrete pump technology – in terms of steel construction, hydraulic systems and electrical systems.

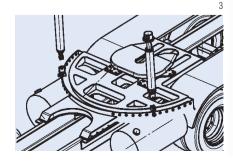
In order to be able to deploy a machine of this size, however, a detailed overall concept was required. In terms of load distribution, design of the semi-trailer superstructure or determination of the distance between axles, the Putzmeister team set new benchmarks.

With almost 30 years of experience in the design and construction of long-reach boom pumps, Putzmeister now offers its customers the BSS 70-5, a reliable truck-mounted concrete pump which can show strengths precisely in large construction projects.

## Reliable stability thanks to innovative support technology (IRS)

For the BSS 70-5, new paths have been forged in the design of the side support and semi-trailer attachment system. The necessary stability for the longreach boom pump is achieved through the rear swinging support legs and a new

forward support system with a special coupling and pivoting kinematics. The "3-point mounting suspension" used as the connection to the semi-trailer makes it possible to use the weight of the





The worldwide only truck-mounted concrete pump of this size in use made in series production

rain.

tween the truck and the semi-trailer is

also possible. This has advantages in

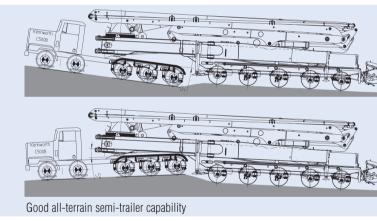
awkward construction site situations and

enables optimal adjustment to the ter-

## Small support area and up to 65.1 m horizontal reach without load torque limitation!

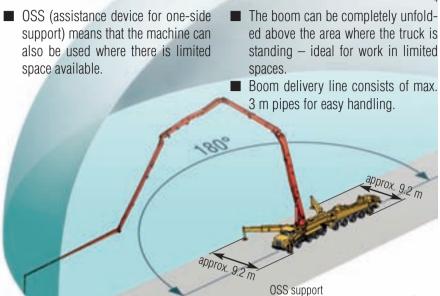
- 5-arm boom with RZ folding with optimum flexibility – best reach to floors at different heights.
- Without load torque limitation: Working with horizontally extended boom with 360° slewing circle is therefore possible!
- The IRS support system achieves optimal weight and support width thanks to the telescoping front legs.
- Special pivoting kinematics with slewing circle up to OSS position

support) means that the machine can also be used where there is limited space available.



14.3 m 34 m tzmeister 🗰

Length in total approx. 21.4 m



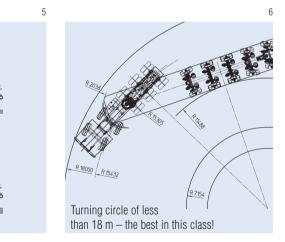
## Robust technology: pumps, hydraulic system and hopper

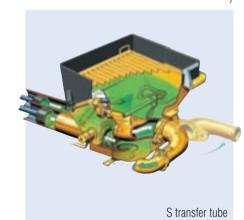
- Proven reliability the S-transfer tube
- Free flow hydraulic system in a closed circuit (almost the only manufacturer)
- Fewer switchovers thanks to large cylinder volumes
- Extremely wear-resistant
- Verv smooth running
- Low-maintenance modular pump unit

- High cylinder fill level
- Longer service life thanks to internally chromed delivery cylinders, as standard
- Low hopper fill level of approx. 130 cm (unsupported)
- Operator-friendly hopper
- Powerful pumps available for any application

## **Top-class equipment** as standard

- EPS (Ergonic<sup>®</sup> Pump System) and EOC (Ergonic<sup>®</sup> Output Control)
- EBC (Ergonic<sup>®</sup> Boom Control)
- EGD and EGD-RC (Ergonic<sup>®</sup> Graphic Display on control cabinet and radio remote control)
- OSS (One Side Support)
- Centralised lubrication system for hopper and arm assembly
- 16 timber blocks
- Support leg illumination
- CAN bus display for the independent power unit
- and much more
- A water-cooled, turbo-charged Deutz V6 (TCD2015) diesel separate engine with 330 kW (450 HP) supplies the boom and core pump with the necessary power.
- The engine with 11,900 ccm and 2000 Nm torque (at 1,300 rpm) provides high performance with low fuel consumption and complies with TIER 3.





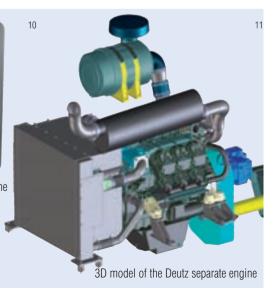


Supplied as standard: Internally chromed delivery cylinders





CAN bus display for the separate engine



# **Ergonic**<sup>®</sup> **Systems**

## The technical advancement for more efficiency – standard with M 70-5!

## flexibility – these are the results that and pump operators. Putzmeister concrete pumps with Construction site managers have also ice

being fuel efficient and working with little concrete in a shorter time. Ergonic<sup>®</sup> wear and tear are important economic systems are microprocessor-assisted con-

Greater efficiency, lower costs, increased factors generally, and not just for machine trol systems for the control, regulation

Ergonic<sup>®</sup> systems can achieve in pract- been convinced by the potential of Ergonic<sup>®</sup>: the construction site is running Being ready for use more guickly, achiev- more efficiently and Putzmeister pumps ing increased placing performance, with Ergonic<sup>®</sup> are simply set up to place

#### EBC – Ergonic<sup>®</sup> Boom Control

booms. EBC enables a higher placement rate, reinforces occupational safety on truck engine. Pump data, such as delivery the construction site and makes boom pressure, delivery rate of the hydraulic operation easier. EBC includes functions pump, hydraulic pressure and many such as the damping of boom vibrations. other signals, is actively and perfectly the horizontal extension of the end hose co-ordinated. This means maximum proat a constant height, or the specification of a working area (upper/lower limits).

## EPS – Ergonic<sup>®</sup> Pump System

controls and regulates concrete placing constantly monitors and regulates the operation of the concrete pump and the ductivity and performance with minimum intervention from the operator.

and monitoring of concrete pumps and booms.

Further information about Ergonic® systems can be found in our

brochure BP 3763 (



The clear display on the remote control provides up-to-date feedback and system information about the machine. Various parameters can be set here. The strength of the radio signal and charge status of the battery is indicated via bars.

#### EOC – Ergonic<sup>®</sup> Output Control

ensures economic operation of the concrete pump. It automatically regulates the ideal engine speed with the lowest consumption, wear and noise.

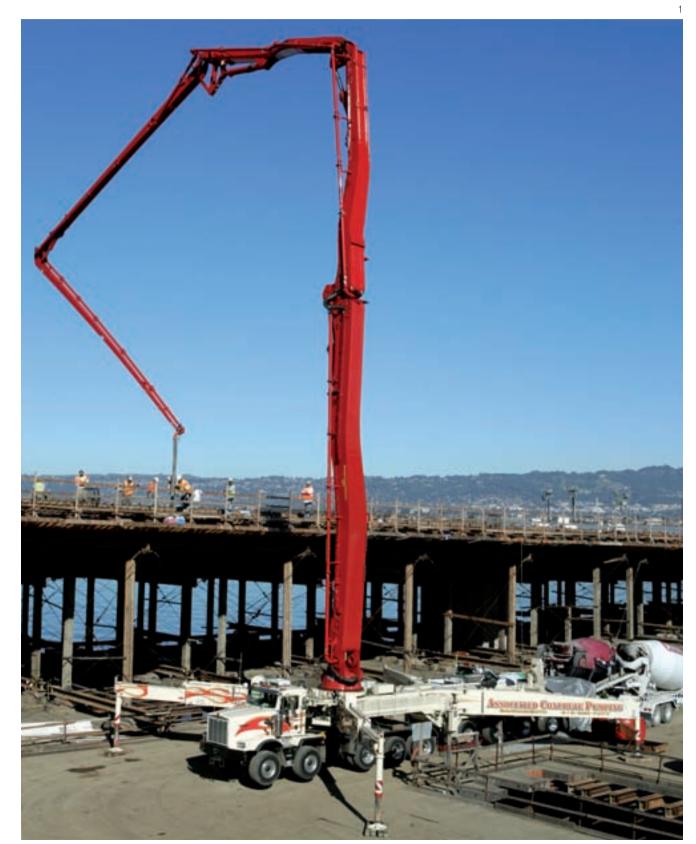
The EOC function is integrated in the EPS (Ergonic<sup>®</sup> Pump System).

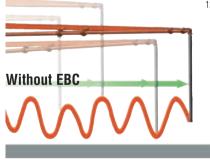


You can set the delivery rate of your pump using just one rotary knob on the remote control. The EOC automatically controls the speed, avoiding the range which is unfavourable for the respective engine.

# **Truck-mounted concrete pump M 70-5**

## The worldwide biggest truck-mounted concrete pump on construction sites!





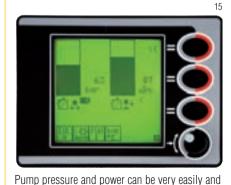
Without EBC: Stop-start movements when the boom is moved and slewed and pump pulsations cause various degrees of deflection in the end

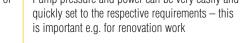


With EBC: EBC reduces the vertical movement of the boom to about 1/3 and also damps the deflection of the end hose in all directions.



Important information on the machine is indicated by the EGD (Ergonic<sup>®</sup> Graphic Display)

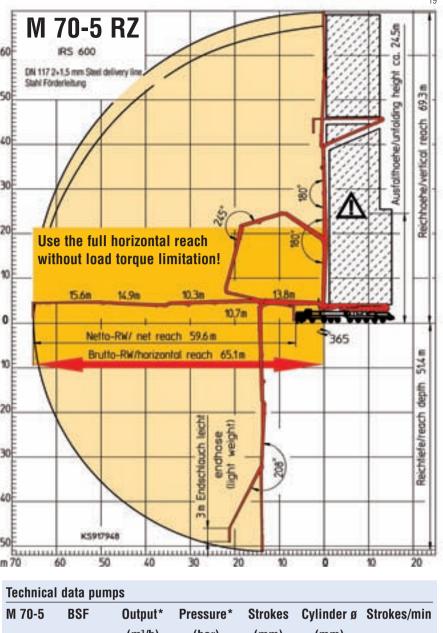




## Putzmeister

Technical data	
Boom M 70-5	
Folding type 5-section Roll-Z-fold (RZ)	1
Vertical reach 69.3 m	5
Horizontal reach 65.1 m gross	
Reach depth 51.4 m	
Unfolding height 24.5 m	40
Length endhose 3 m	
Delivery line DN 117 2+1.5 mm	ж
Proline 67 HRC max. 85 bar	
Slewing range 365°	20
Support	10
Support width front approx. 13.4 (9.2) <sup>1</sup> m	
Support width rear approx. 13.8 (9.2) <sup>1</sup> m	0
Support length approx. 13.9 (17.3) <sup>1</sup> m	
<sup>1</sup> Figures in brackets with OSS support	10
Vehicle	
Tractor Kenworth C500B 10x6/4	20
370 kW (500 HP)	

Tractor	or Kenworth C500B 10x6/4					
	370 kW (500 HP)					
Separate engine						
	330 kW (450 HP)					
Axles	10 (3 driven)					
Total length	approx. 21.4 m					
Weigth	< 80 t					
approx. 9.2 m xoudde approx. 13.4	mal <b>u u u u u u u u u u</b>					



M 70-5	BSF	Output*	Pressure*	Strokes	Cylinder ø	Strokes/min
		(m³/h)	(bar)	(mm)	(mm)	
	16 H	160/108*	85/130*	2100	230	31/21*
1	6 H LS	160	85	2100	250	26
	20 H	200	85	2100	280	26
-						

All data theoretical maximum values · Standard boom pipework: pressure up to max. 85 bar \* rod side/piston side · Max. delivery rates and max. delivery pressures cannot be operated at the same time

#### The Putzmeister Group

Concrete Technology PCT · Mortar Technology PMT Pipe Technology PPT · Water Technology PWT Industrial Technology PIT · Belt Technology PBT Underground Technology PUC

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