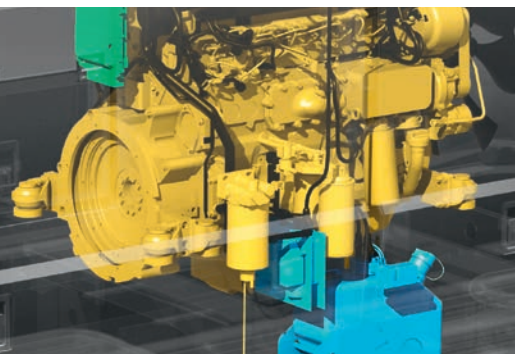




Putzmeister



Innovation for clean air

Low-emission BSA D4 concrete pumps equipped with Stage IV diesel engines

Greater efficiency and fewer emissions with the BSA D4

Directive 97/68/EC aims to reduce nitrogen oxides and particle emissions by 90%, and the reduction in these values will make a valuable contribution to improving air quality.

The main advantages of the BSA D4

- Compliance with Directive 97/68/EC, Stage IV or Tier 4 final
- Smoother running performance that protects the machine
- Reduction in noise development
- CE mark

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 IV or Tier 4 final for mobile construction machinery, including stationary concrete pumps, came into force in **Europe and the USA on 1st January 2014**. New mobile construction machinery operated in the corresponding countries must now meet the new restrictions specified for Stage IV, so that it will be possible to operate these machines in sensitive areas such as inner cities or conservation zones in the future.

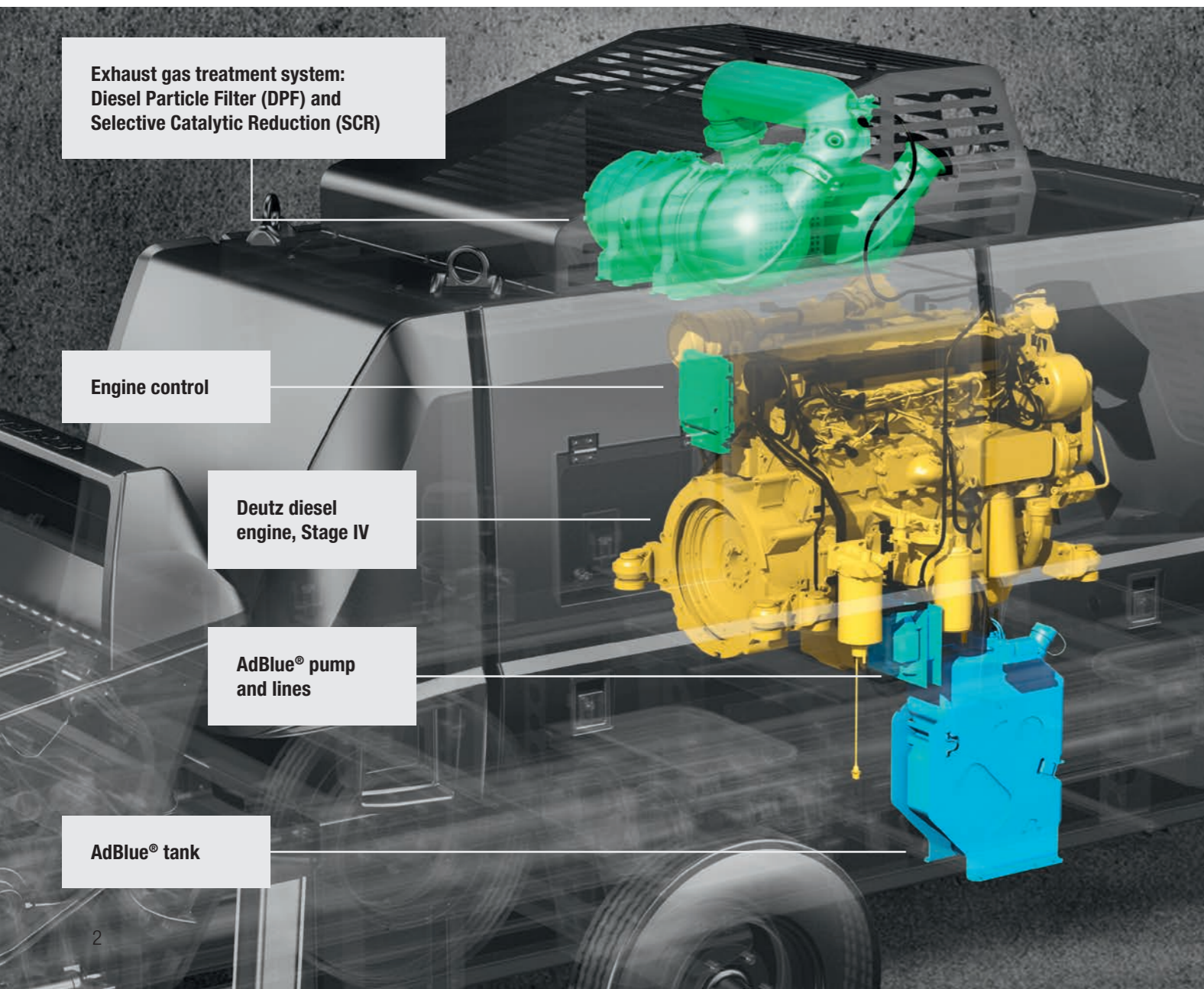
Potential savings: lower fuel consumption

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 right method: exhaust gas treatment

The BSA D4 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.

The 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.



	1407 D4	1409 D4	2109 H D4
Output up to	71 m³/h	97 m³/h	95 m³/h
Concrete pressure of up	106 bar	106 bar	152 bar
Engine	105 kW (diesel)	150 kW (diesel)	225 kW (diesel)
Delivery cylinder	200 mm	200 mm	200 mm
Piston stroke	1,400 mm	1,400 mm	2,100 mm
Weight	4,500 kg	4,900 kg	6,800 kg

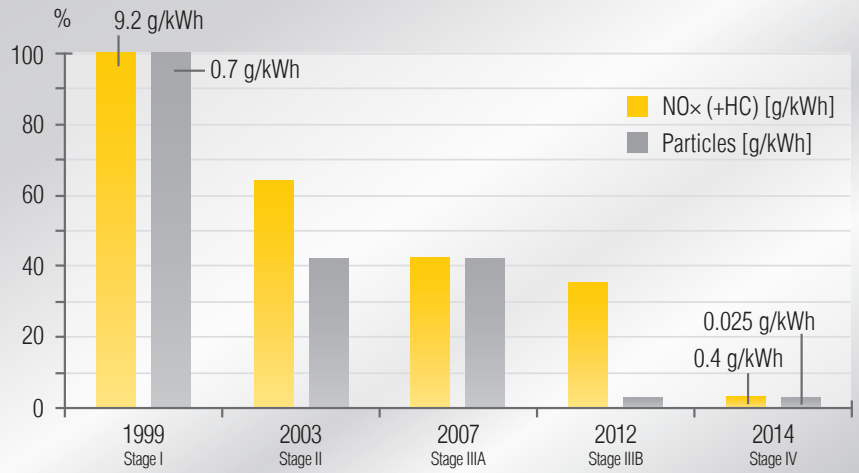


	2110 HP D4	14000 HP D4	14000 SHP D4
Output up to	102 m³/h	84 m³/h	72 m³/h
Concrete pressure of up	220 bar	231 bar	250 bar
Engine	330 kW (diesel)	470 kW (diesel)	470 kW (Diesel)
Delivery cylinder	200 mm	200 mm	200 mm
Piston stroke	2,100 mm	2,100 mm	2,100 mm
Weight	9,300 kg	10,800 kg	11,300 kg

Air purification with Putzmeister ...

... and emission Stage IV or US EPA Tier 4 final

You can be sure that our stationary concrete pumps meet all the requirements outlined in exhaust emission legislation without the economic efficiency and user friendliness of our machines suffering in any way. In fact, quite the contrary because our BSA models offer many advantages that help reduce operating costs.



Pollutant levels relating to: Deutz engines 75–130 kW

The most important aspects of Stage IV and Tier 4 final:

- **Stage IV or Tier 4 final for mobile construction machinery**, including stationary concrete pumps, came into force **in Europe and the USA on 1st January 2014**
- It will be possible to operate these machines in sensitive areas such as **inner cities or conservation zones**
- The **Putzmeister BSA models** BSA 1407 D4* and BSA 1409 D4* already **conform to Directive 97/68/EC or emission Stage IV/Tier 4 final**, other models will follow suit
- **These machines also offer:**
 - **Smoother running performance that protects the machine**
 - **Reduction in noise development**
 - **CE mark**

Note: The illustrations may differ from series models.

Other brochures: BSA 1409 BP 4548

Delivery line systems PM 2300

General brochure BSA BP 2632



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