

## Site report

# Bridge construction with different boom sizes

**Putzmeister**

In Saxony-Anhalt on the outskirts of Lochau, the road bridge over the White Elster river is being completely renewed. It will replace a pre-tensioned concrete construction from the days of the DDR and will guarantee the connection to Merseburg on the L183 highway.

The 185 m long new construction is designed for significantly higher loads than the previous structure. The bridge not only crosses the river, but also the bordering, sweeping flood plains. For the concreting work on the two abutments, the four pillars and the superstructure, the construction site is using truck-mounted concrete pumps with different boom reaches, provided by BFU Betonförderunion GmbH & Co.KG (Raßnitz).

### BFU fleet of 45 truck-mounted pumps

For construction of the pillars, 40 to 50 m<sup>3</sup> of concrete (C30/37) will be needed in each case. This will be placed in one operation, wet on wet, with a M 24-4 provided by BFU. Due to the density of the reinforcement, the series-produced 125 mm end hose will be replaced on the construction site with a narrower 100 mm hose, and connected to the boom by a taper. To manufacture the bridge superstructure, around 1,100 m<sup>3</sup> of concrete is needed. This will later be delivered from two set-up sites with a large truck-



For each bridge section, the BFU concrete pumps have the right boom size. Here is a M 24-4, which will be replaced by two M 52-5 booms in the coming months.

mounted concrete pump. For jobs of this kind, BFU also has three modern M 52-5 Putzmeister long-reach boom pumps in its fleet of around 45 machines. For each truck-mixer batch, the spread and temperature are checked at the construction site. The bridge is being constructed by Arlt Bauunternehmen GmbH, Frankenhain (Leipzig).

During the construction work, traffic will not be diverted but will be directed in alternate single-lane traffic over a temporary bridge, which will cross the river just a few meters away. Following a construction period of around 18 months, the new bridge across the White Elster should be completed in October 2008.



When concreting the narrow reinforcement, the machine operator is as close as possible to the placement site

### The Putzmeister Group

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