

Bibko Umwelt- und Reinigungstechnik GmbH, 71717 Beilstein, Germany

New recycling system for residual concrete at the ready-mix concrete plant

Founded 150 years ago, Dyckerhoff is an international manufacturer of cement and ready-mixed concrete. In Germany alone, the company operates seven cement plants and around 110 ready-mix concrete plants. Other production sites are located in Luxembourg, the Netherlands, Poland, the Czech Republic, Slovakia and Ukraine.

In order to recycle the residual concrete produced at the Emden ready-mixed concrete plant, Dyckerhoff decided in favour of a residual concrete recycling system from Bibko® and placed an order. The delivery was preceded by a corresponding project planning phase in which the customer's requirements and local conditions were considered.

Bibko systems are characterised by their highly efficient drive technology. The Bibko-ComTec 30 system supplied offers a recycling capacity of 30 m³/h. It is equipped with a complete recycling water treatment system. The washed-out residual concrete is fed from the truck mixer directly into the charging hopper of the wash-out machine. Solids > 0.2 mm are washed out and discharged accordingly in the wash-out trough. The water with the fines flows via a water drain into a so-called agitator tank. The agitator in the tank keeps the fines in the residual water in motion through cyclical agitation and thus prevents settling.

A Bibko pump discharge conveyor was installed upstream of the Bibko residual concrete recycling system, which collects the residual material from the concrete pump directly via a

floor-level hopper. To minimise the risk of accidents, the hopper of the pump discharge conveyor was fitted with a walk-on grating. The residual material is transported to the washing plant at floor level via a screw system. The pump discharge conveyor runs in an elastic trough floor, which means that the water present can also be conveyed in addition to the residual concrete.

The wash-out machine itself is equipped with a 3.2 metre-wide charging hopper and two rinsing gibbets. Thanks to the pump discharge conveyor, truck mixers and concrete pumps have separate washing stations and can easily wash out at the same time. A 3 m long screw conveyor ensures ideal discharge of the washed-out material. ■

FURTHER INFORMATION



Dyckerhoff GmbH
Biebricher Straße 68
65203 Wiesbaden, Germany
T +49 611 6760
info@dyckerhoff.com
www.dyckerhoff.com



Bibko Umwelt- und
Reinigungstechnik GmbH
Steinbeisstraße 1+2
71717 Beilstein, Germany
T +49 7062 92640
info@bibko.com
www.bibko.com



A Bibko pump discharge conveyor was installed upstream of the Bibko residual concrete recycling system, which collects the residual material from the concrete pump directly via a floor-level hopper.