

Bibko Umwelt- und Reinigungstechnik GmbH, 71717 Beilstein, Germany

New residual concrete recycling system for Godel-Beton GmbH

Godel-Beton GmbH is a company with a central administration in Stuttgart. With 23 plants in southern Germany and another in Poland, Godel-Beton is active in the fields of building construction, underground construction and civil engineering as well as tunnel construction. In order to solve the problem of disposal of the residual concrete and the accumulating washing water at the plant in Stuttgart-Weilimdorf, the decision was taken – also for ecological reasons – to invest in a Bibko residual concrete recycling plant.

The delivery was preceded by a corresponding project planning phase in which the customer's requirements and local conditions were considered.

The ComTec 20 system was chosen in order to be able to process the accumulating residues quickly. The machine is equipped with a pump discharge conveyor that takes up the residual material from the concrete pump directly via a hopper installed flush with the ground. 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

base. This allows water to be conveyed in addition to the residual concrete. The wash-out machine itself is equipped with a 3.00 metre-wide charging hopper and two rinsing girders.

Due to the separate pump discharge conveyor, truck mixers and concrete pumps can be washed out at the same time and have separate washing places. A 3.00 metre-long screw conveyor provides for optimal discharge of the washed-out material here.

The supplied ComTec 20 system has a recycling capacity of 20 m³/h. The system comes complete with a recycling water treatment unit, as a result of which the residual concrete is fed directly into the machine via the charging hopper after filling the truck mixer with recycling water – or in the case of concrete pumps via the pump discharge conveyor. Here, solids > 0.2 mm are washed out and removed appropriately.

The water with the smaller fines flows via a water drain into a floor-level agitator tank equipped with an agitator. This keeps the fines in the residual water in motion by means of cyclic



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stirring and prevents settling of the residual concrete. The recycling water is fed back to the mixing process in order to ensure a permanent circulation and to keep the water balance as constant as possible in this respect.

In installing the Bibko recycling system, Godel-Beton is proving acceptance of its ecological responsibility, takes advantage of the resource conservation gained and thus underlining its high quality standards.

FURTHER INFORMATION



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The Bibko ComTec system features the 1,700-times proven, patented bearing that was located outside of the water bath to prolong its service life.

Furthermore, the machine was hot dip galvanized, is winter-proof and fitted with a hinged aluminium cover. ■



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