

Bibko Umwelt- und Reinigungstechnik GmbH, 71717 Beilstein, Germany



# New Residual Concrete Recycling System for Lindermayr GmbH & Co.KG

**Founded in 1961, Lindermayr GmbH & Co.KG with its headquarters in Friedberg- Derching, Germany is now engaged in structural and civil engineering as well as producing gravel, ready-mixed concrete and precast. The company decided to invest in a Bibko residual concrete recycling plant and a Bibko chamber filter press in order to recycle and clarify the resulting residual concrete and washing water.**

The decision was made in favour of the ComTec30 system for processing these residual quantities rapidly. The machine is equipped with a pump discharge conveyor that picks up the residual material directly from concrete pumps via a floor-level hopper.

To reduce the risk of accidents, the pump discharge conveyor hopper has been equipped with a heavy-duty grating that can be driven over. A spiral system conveys the residual material into the washout unit at ground level. The pump discharge conveyor runs in an elastic trough bottom, which permits the conveyance of both the residual concrete and the remaining water. The washout machine itself is equipped with a 3.2 m wide feeding hopper and two rinsing booms.

The separate pump discharge conveyor allows truck mixers and concrete pumps to wash out at the same time and have separate washing bays. A 2.5 m long spiral conveyor ensures ideal discharge of the washed-out material. The ComTec30 plant system supplied offers a recycling capacity of 30 m<sup>3</sup>/h.

The system is fully equipped with a recycling water treatment system. After the truck mixer has been filled with recycling water, it is fed directly into the machine via the feed hopper or, in the case of concrete pumps, via the residual concrete

conveyor. Solids > 0.2 mm are washed out and discharged accordingly in the washout trough. Water with smaller fine particles flows via a discharge unit into an agitator basin equipped with an agitator. This maintains the fine particles in the residual water in motion by cyclical agitation and prevents the residual concrete from settling.

In the next stage, the recycled water is conducted further for clarification into a preassembled chamber filter press in its container housing. If the water filling level in the agitator basin connected to the recycling machine rises above a value previously set by the customer, the filter press will automatically start to restore the level to the previously set value.

The recycling water with the fine fractions it contains is pumped into the chamber filter press at increased pressure to be clarified using a compressed air diaphragm pump. The fine particles are pressed through appropriate filter plates, which are covered with special filter cloths, to form a puncture-proof filter cake and then discharged through the press vibrating automatically. The chamber filter press supplied is equipped with 16 filter chambers. ■

## FURTHER INFORMATION



**Bibko Umwelt- und Reinigungstechnik GmbH**  
 Steinbeisstraße 1+2, 71717 Beilstein, Germany  
 T +49 7062 92640, F +49 7062 926440  
 info@bibko.com, www.bibko.com



*The new residual concrete recycling system at Lindermayr GmbH & Co.KG*