



Putzmeister

W+S Monnerjahn GmbH from Halsenbach, Germany, specialises in reinforced concrete and prestressed concrete prefabricated parts. The company stands for customised, individual solutions: be it in the area of industrial and commercial buildings, precast concrete construction, the manufacture of modular railway platform systems or special custom-made products.

Initial situation

Concrete placement in the formwork was previously realised using indoor crane systems and crane buckets in parallel to the manufacture of the reinforcement material in the same hall. The arising bottleneck in the use of the hall crane led to additional costs from waiting and idle times during concreting work and the manufacture of the reinforcement material.

Putzmeister solution

Instead of buckets and crane, a stationary concrete pump with hydraulic rotary distributors and stationary delivery line assumes the transportation of concrete and concrete placement.

The ready-mixed concrete from the truck mixers is poured directly into the pump hopper. The concrete pump is located outside the hall and is easy to approach for the truck mixers. Via a delivery line the concrete is pumped into the hall on a rotary distributor RV 22-2 (22 m reach) and distributed via a connecting line to a second rotary distributor RV 16-2 (16 m reach) into formwork approx. 70 m long.

During cleaning the concrete from the line is for the most part still poured into the formwork, the remaining concrete residue and cleaning water are absorbed by a cleaning line outside the hall.

The approx. 1000 m crane route per day is no longer required.

Rotary distributor impresses in the production of precast parts W+S Monnerjahn GmbH



Concreting of Pi ceilings with rotary distributor RV 22-2



Stationary concrete pump BSA 1408 E in enclosure outside the hall



Cleaning line for concrete residue and cleaning water outside the hall



Stationary concrete pump BSA 1408 E with gate valve, hinged elbow and T-piece for simpler cleaning, cleaning tank for cleaning the hopper

Why Putzmeister?

Individual concrete pump solution tailored to the customer, taking into account the production processes and local conditions in the hall, offers greater productivity and resolves bottlenecks with the crane assignment.

Advantages

The previous concrete placement with crane buckets and indoor crane required 3-4 hours. There were also waiting times during concreting and the manufacture of the reinforcement material as both required the indoor crane.

With the pump technology only 1.5 hours are required for the same volume (+ 5 minutes for start of pumping and 20 minutes for cleaning).

- **Reduction of the time required by approx. 50%**
- **Less staff, as production is assured even in the case of staff shortage or skills shortage**

Machines

BSA 1408 E

Hydraulic rotary distributor RV 22-2

Hydraulic rotary distributor RV 16-2

Gate valve GVH 2/2

Materials

Concrete up to compressive strength C50/60

30 – 40m³ delivery rate per day corresponds to approx. 5 – 6 truck mixers

Delivery lines

15 m delivery line with diameter DN 125 mm

15 m cleaning line with diameter DN 125 mm



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