

Zuckersilo Uelzen



SHORT DESCRIPTION

Prestressing of the concrete container with a height of approx. 60 m and a diameter of approx. 46 m.

THE PROJECT

The pre-tensioning of the concrete container with a height of approx. 60 m and a diameter of approx. 46 m was carried out using horizontal tendons BBV, L7, BBV L15 and BBV L19 in the silo wall, which each run over half the tank circumference and alternately vertically on a total of 4 Pilaster strips were anchored.

The silo was built using a sliding construction method. After the clamping niches had been exposed and a scaffold had been erected, the prestressing steel strands were installed from the ground up to 55 m high and 76 m around half the silo circumference with a hydraulically driven automatic feeder in the ducts laid while sliding.

A total of approx. 390 t of prestressing steel was installed with up to 10 men within 2 weeks. The tendons were then tensioned. In order to avoid ovalization of the concrete container, it was necessary to work in sections and with two presses at the same time. Parallel to the prestressing work, the already stressed tendons could be injected with grout. A special high-pressure injection pump was used for pressing.

FACTS

Location Uelzen , Germany

Status	completed
Start of construction	May 2013
Completion	August 2013
Building owner	Nordzucker AG
Contracting entity	Heitkamp Ingenieur- und Kraftwerksbau GmbH, NL Bitterfeld
Planning	IPRO Industrieprojekt GmbH, Braunschweig

SERVICES

Post-tensioning system

Special construction



<https://www.bbv-systems.com/en/projects/detail/ref/sugar-silo-uelzen/>

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