

Jobreport Mobilmix 2.5-F with tower silo
Commissioning in record time



LIEBHERR



Situation

Marti Holding AG, based in Moosseedorf (Switzerland), was founded in 1922 and is an internationally active Swiss construction group. The group is active in all major construction areas, including civil engineering, road construction, hydraulic engineering, as well as refurbishment and repairs. In tunnel construction, Marti is even one of the world leaders. The Group comprises around 80 regional and international independent subsidiaries and employs around 6.000 workers worldwide.

Task

With the construction of a third tube, the traffic situation around the Gubrist tunnel is to be defused sustainably. For this construction project, the Marti Group needs around 225.000 m³ of concrete in the tunnel and around 25.000 m³ of opencast concrete. For Marti the most important criterion for the selection of the concrete mixing plant was a quick commissioning to be able to start the concrete production at short notice. For the aggregates, a tower silo with seven chambers (500 m³ total storage volume) was required to store a wide variety of aggregates, for example recycled material.

Solution

As an optimal solution under the given conditions, Liebherr selected together with Marti Holding AG the Mobilmix 2.5-F with a tower silo for concrete production and a quick start. The concept of the Mobilmix 2.5-F is characterized by its folding mechanism and the integrated assemblies and components such as steel foundations, control containers as well as mixer and weighing platforms. Together with the new cladding, the plant including the tower silo was installed on the site within 4 days. With the new Liebherr twin-shaft mixer, the plant achieves a theoretical output of up to 115 m³/h.

Additional highlights of the plant are the steel fiber dosage close to the feeding elevator, the cement silos based on a higher level for the optimum material flow due to a small gradient angle of the feeding screws and the hot air / hot water heating for the concrete production in winter.

Technical data	Mobilmix 2.5-F with 500 m ³ tower silo
Mixing system	Liebherr twin-shaft mixer DW 2.5 (new series)
Output capacity	115 m ³ /h
Volume charging hopper	20 m ³
Feeding	Bucket elevator including 800 mm stairs, pre-assembled from factory
Performance bucket elevator	140 m ³ /h
Tower silo	Stackable container modules
Storage volume for aggregates	500 m ³ (7 chambers)
Storage volume for cement	2 x 100 t, 2 x 50 t (two-line cement silo)

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