

TRM PILING SYSTEMS FACTSHEET

Industrial construction



Liebherr-Werk Bischofshofen GmbH, Austria

- + 500 ductile iron piles of the pile type TRM 118 were installed
- + Maximum load rating of 1,000 kN per pile
- + Soil type: heterogeneous soil from load-bearing gravel to unstable fine sand
- + Construction time: approx. 2 years
- + Implementation in 2025

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The Initial Situation

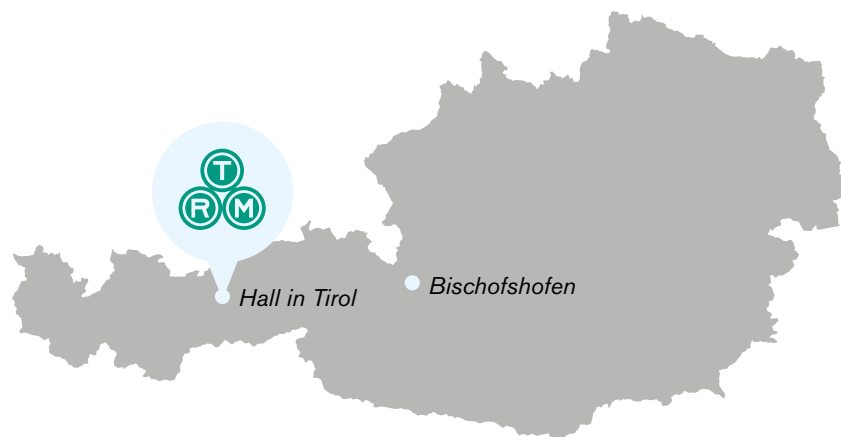
Liebherr-Werk Bischofshofen GmbH would like to build a new coating hall at its site in Salzburg's Pongau region in order to expand its production and meet increasing demands. The building site is characterized by extremely **heterogeneous soil conditions**, ranging from low load-bearing backfill to silty fine sand and load-bearing gravel to load-bearing gravel.

These conditions pose a particular **challenge for foundation planning**, as the long-term stability of the entire facility must be guaranteed. In order to create a stable and durable basis for the coating hall, a **solution with pile foundations** must be developed that can safely transfer the loads into the deeper, load-bearing soil layers.



Location Liebherr-Werk Bischofshofen GmbH

Liebherr-Werk Bischofshofen GmbH in the Salzburger Pongau is located in a geologically varied region with soils ranging from load-bearing gravels to silty fine sands, whose variable bearing capacity requires special geotechnical technical solutions.



Deep foundation

For the Liebherr Bischofshofen project, a deep foundation with **TRM 118** ductile piles was chosen due to the heterogeneous soil conditions. The foundation comprises **approx. 500 grouted piles**, designed for soils consisting of backfill, silty fine sands, and load-bearing gravel. The piles have a variable length and a **maximum design load of**

approx. 1,000 kN per pile. This solution made it possible to reliably achieve load-bearing layers and a clear structural separation between the existing and new construction. The project is being executed by Keller Grundbau GmbH, with planning managed by Mittendorfer Dornetshuber ZT GmbH GmbH.



Pile driving process



Foundation made of TRM ductile iron piles

Do you have any questions? Our experts will be happy to advise you.

