

SUCCESS STORY

SUPPORT OF STRUCTURAL COMPONENTS

Factory for grinding and toolmaking, Breitenwang

PROJECT DATA

Brief description

Structural support at a new factory for grinding and tool making in the new industrial area Kreckelmoos near Reutte (AU).

Requirement

Protection of the supporting structure by absorbing rotations up to 40‰ and loads up to 3000 kN.

City, year

Breitenwang/Kreckelmoos, 2019-2022

PROJECT DESCRIPTION

Ceratizit Austria (Plansee Group) is building a new factory for grinding and toolmaking in the community of Breitenwang. The new factory, which will be 200 m long, 80 m wide and up to 20 m high, will ensure the production capacity needed to meet the growing demand for carbide tools in the future. The structural and civil engineering work will be carried out by the Bodner Group.

The ceilings of the multi-storey building on the individual floors are constructed with TT panel elements. These are placed on the substructure. A centric load introduction into the columns with simultaneous absorption of the occurring rotations of the ceiling, caused by the span and the load of the ceiling parts, must be guaranteed for protection against damage.

SOLUTION

The protection of the supporting structure is provided by elastomeric bearings from Calenberg Ingenieure which are approved by the building authorities. For this purpose more than 2000 Compact Bearings S 70 and more than 100 Compact Bearings S 65 are installed between the columns and the slabs in the whole building. Loads of up to 3000 kN per bearing and rotations of up to 40‰ are easily absorbed by our bearings and transferred centred into the columns. This ensures that the value of the building is maintained and its safety is guaranteed for the entire lifetime of the production hall.



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