

University of Zurich – Irchel campus (CH)



Project description

At the University of Zurich's Irchel campus, home of the university's Department of Hydraulic Engineering, a new research building was constructed, opening in 2015. To enable heavy loads to be transported around the building's main hall, an overhead bridge crane was required. To limit disruptive noise and vibrations from this crane's movements, the overhead rails along which it moves required to be isolated from the supporting structure.

mageba scope

The modern overhead bridge crane's design, and in particular the way in which its craneway was designed to be supported from above, required a special, non-standard craneway isolation solution to be developed.

The solution is based on the tried-and-trusted VIBRAX®CRANE system, incorporating VIBRAX®BLOCK vibration bearings and VIBRAX®DAMP C vibration-isolating bearings.

To allow in particular for the hanging orientation of the main bearings, these were designed with an additional VIBRAX®DAMP layer, enabling them to be precompressed for optimal vibration isolation.

Highlights & Facts

mageba Products:

Type: VIBRAX®CRANE
Installation: 2015

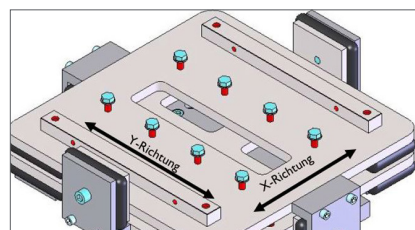
Structure:

City: Zurich
Country: Switzerland
Type: Crane-way
Built: 2014
Owner: University of Zurich
Contractor: Güdel AG

The building is located in Zurich, Switzerland, on the University of Zurich's Irchel campus



Illustration of one of the main crane rail support bearings, designed to allow pre-compression



One of the main crane rail support bearings, as installed

