

Experiences of a Polyurethane-Manufacturer with the Elastic Decoupling of Machines

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ABSTRACT

Getzner Werkstoffe as a manufacturer of polyurethane-material is involved in a broad variety of projects for elastic decoupling of machines. Aim of the presentation is to give a real-life overview to the material itself, to the constructional execution of the decoupling and to the success of the reduction measure.

In a first thematic block the distinctive features of polyurethane-material for elastic decoupling will be discussed. Non-linear behavior will be explained as well as recommendations for handling and processability.

Procedures for dimensioning and calculation of elastic bearings will be illustrated as well as different ways of constructional execution.

As a conclusion the challenges and implemented solutions of realized projects will be elaborated. For this purpose projects with discrete bearings (point bearings) and full-surface-bearings (machine-foundations) will be presented.