VICODA®

SUCCESS STORY

INDUSTRY, VIBRATION ISOLATION

Decoupling of a forging press, Germany

PROJECT DETAILS

Short description

Reduction of transmission forces and movement amplitudes of a 2500 ton forging press TYPE SKL 2500 from Smeral to ± 2 mm within 6 s to ensure robot-assisted part feeding.
Dimensioning and construction of an oscillating frame to optimise the tilting frequencies (1st and 2nd rigid body frequency).

Product details Damper-spring elements

Quantity: 4 Types S-WV-4020-12.12/20
Quantity: 2 Dampers RS35 757
Total sprung weight: approx. 250 t

Country, year

Germany, 2019

PROJECT DESCRIPTION

The Walor company needed a new SKL 2500 forging press from Smeral to improve its production process. This forging press was integrated into an existing production hall. In order to ensure robot-assisted part loading, the machine was only allowed to move to a limited extent. At the same time, the residual forces transmitted were to be kept as small as possible.

SOLUTION

In order to improve the stability of the 2500 ton press and to prevent resonances, an additional base frame was developed for the machine. To support the load of the forging press and the base frame, 4 spring damper elements type S-WV-4020-12.12/20 were used. To reduce the decay time after the forming process, 2 specially developed dampers were additionally installed by LISEGA fitters.

VICODA® is a product brand of LISEGA Group
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