

➔ KTI Project Report No.7

SUSPENSION OF A FOUR-POINT TRANSFER PRESS

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| Customer | ➔ Allgaier Automotive |
| Location | ➔ Uhingen, Germany |
| Year | ➔ 2008 |
| KTI product | ➔ 4 spring supports of the PW series |
| Special feature | ➔ Drive of press through a link-drive system |

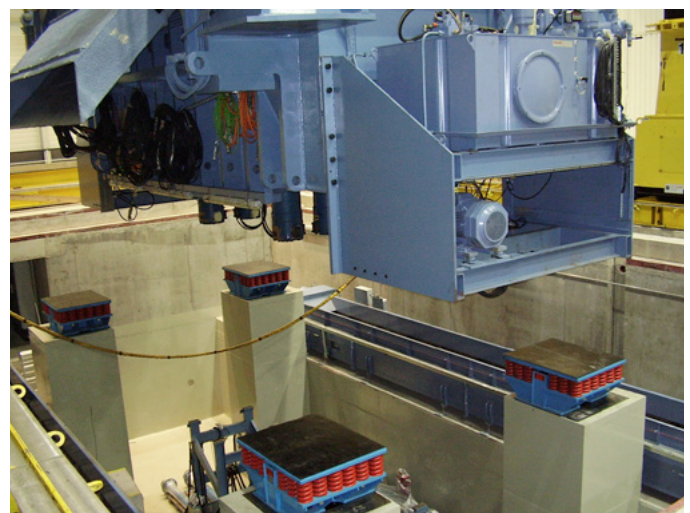
The company Allgaier Automotive is using in its Uhingen works a new four-point transfer press from the Spanish company Arisa with a total pressing force of 20.000 kN. The press is driven by a link-drive system, the table and working space have an area of 4,700 x 2,300 mm.

KTI spring supports of the PW series with a vertical natural frequency of 3.5 Hz serve to reduce vibrations. The spring supports are provided with a viscose safety damping with a with a Lehr's damping value of $D = 0.15$. The total weight of the presses of 570 tons each is spread evenly onto four bearing points.

The bottom picture shows the press base being lowered onto the spring support, which has already been placed on the support heads. Self-fixing mounting plates are provided on the spring supports. The load is borne by helical compression springs, arranged between the top plate and the substructure of the spring support. Movements are reduced by a viscose safety damping, positioned in a container in the middle between the springs.



Four-point transfer press with a pressing force of 20,000 kN



Lowering of the press base onto the KTI spring supports