

## ➔ KTI Project Report No.4

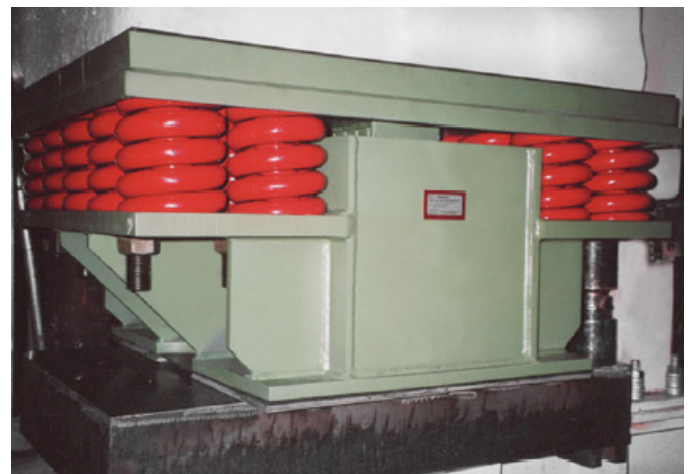
### VIBRATION ISOLATION OF A PRESS LINE WITH 84,000 KN

<b>Customer</b>	➔ Volkswagen AG
<b>Location</b>	➔ Wolfsburg, Germany
<b>Year</b>	➔ 2003
<b>KTI product</b>	➔ 24 spring supports
<b>Special feature</b>	➔ loading capacity per spring support 150 t 6 press units with very small installation areas Precise adjustment to height of press line

On behalf of Umformtechnik Erfurt, a branch of Müller Weingarten AG, a refurbished press line consisting of 6 press units with a total pressing force of 84,000 kN and a gross weight of 2,690 tons was insulated against vibrations at the Volkswagen works in Wolfsburg.

The presses were initially supported using transverse girders, which were in turn held in place by longitudinal girders. Both the press feet and the transverse girders provided very small areas for installing the new spring supports. To enable the best possible vibration insulation under such unfavourable space conditions, compact KTI spring supports in rectangular shape were used to provide the required high load-bearing capacity of 280 tons/m<sup>2</sup>. The picture shows an installed spring support with a loading capacity of 150 tons. The springs are on the outside, while the central container for cushioning movements contains a viscose safety damping.

For absorbing the total load of 2,690 tons, 24 similar spring supports were delivered with pretension to operation load and installed. All 6 press units were raised a few millimetres to facilitate assembly, before the spring supports were inserted. Finally, the pre-installed spring supports were pressed together underneath the presses using hydraulic jacks in order to achieve the required height and to level precisely by means of shims.



**24 KTI spring supports for an existing press line with a weight of 2,690 t**