



ACE Press Dampers – when side load (almost) becomes the main consideration

All new innovative damping solutions for the pressing tools have, apart from their other properties, one thing in common: they also reduce noise.

While this only plays a subordinate role for other dampers, this aspect has significant importance in pressing dampers. These special damping elements are used in dies for eccentric/toggle presses by manufacturers of large household appliances. The achieved cycle rates and speeds are much higher than in automotive industrial presses and result in correspondingly higher noise levels. Reducing this is the actual task of these elements.

The processed sheet metal parts are also fixed by the down holder. In order to achieve a clean reshaping process, the process is additionally supported by gas springs. They are located in the top tool part and provide the necessary forces from above onto the sheet metal holder and the sheet metal material. When closing the press, the piston rods on the gas springs hit against the down holder without being damped. The press dampers are located in a good close-fitting pocket. The initial test results confirmed a noise reduction from 91 dB to 89 dB.

ACE Press Dampers, TUBUS-Special-D00042, machine-manufactured prototype, static compressions, v~70 mm/min., 13.04.2011

