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ABSTRACT

The invention relates to a spring-damper element (2) for mounting a punching press (1), with a hydraulic damper unit (3) with a first fluid chamber (4) and a second fluid chamber (5), wherein, in the intended operation, a hydraulic fluid is displaced from the first fluid chamber (4) via a throttle point (6) into the second fluid chamber (5) when the spring-damper element (2) is compressed. The damper unit further comprises an overload valve (7) arranged between the first fluid chamber (4) and the second fluid chamber (5), which overload valve opens when a specific fluid pressure is reached in the first fluid chamber (4) or when a specific pressure difference is reached between the first fluid chamber (4) and the second fluid chamber (5) and releases a bypass (8) via which hydraulic fluid then flows from the first fluid chamber (4) into the second fluid chamber (5) bypassing the throttle point (6). Thereby, the spring-damper element (2) is designed in such a way that the fluid pressure or the pressure difference, respectively, at which the overload valve (7) opens can be adjusted when the spring-damper element (2) is installed as intended. With such spring-damper elements according to the invention, it becomes possible to create a mounting arrangement for a punching press, the damping characteristics of which can be adjusted without significant effort, such that a variable operation of the press in wide ranges becomes possible while keeping the ground loading to a minimum in each case.

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Fig. 2