

Abstract

The invention relates to a punching press with a clamping plate (27) and with a press ram (1) which lies opposite the upper side of the clamping plate (27) and operates towards the clamping plate (27), which is moveable up and down via four tension columns (2) by means of a crank drive arranged below the band movement plane (X) of the punching press. The press ram (1) is guided exclusively via the tension columns (2), which, in turn, are guided in inclination-tolerant guides (3) in the band movement plane (X) in such a manner that the press ram (1) and the tension columns (2) can be positioned obliquely as a consequence of differing longitudinal expansion of the tension columns (2) under eccentric load by the tension columns (2) being inclined about axes of inclination running in the region of the band movement plane (X) of the punching press.

By means of the configuration according to the invention, distortion of the punching press under an eccentric load, which would lead to uncontrollable operating conditions during the punching and a high degree of wear at the guides of the machine, is avoided, and it can be ensured that, in the event of a possible skewed position of the ram, no tool offset, which would result in a high degree of tool wear or even tool fracture, occurs.