

Title (en)

METHOD FOR MEASURING AND CORRECTING THE RAM ADJUSTMENT OF HIGH-SPEED PUNCHING PRESSES, AND CIRCUIT FOR CARRYING OUT THE METHOD

Publication

EP 0316519 B1 19910529 (DE)

Application

EP 88113357 A 19880817

Priority

DE 3739023 A 19871117

Abstract (en)

[origin: EP0316519A1] The rams employed here serve for the cutting, punching, bending and/or stamping of semifinished products or the like having high tolerance requirements. The ram should be adjusted as a function of the number of strokes and the actual value in each case for the depth of immersion of the ram is measured. For this purpose, use is made of a detector head (4) which has a plurality of induction loops and is guided with the ram stroke along a permanent magnet strip (1) which in its longitudinal extent is divided into a large number of alternating North-South poles. The induced voltage characteristic is taken off for each predetermined unit of displacement length via cosine and sine functions of the induction loops, and the amplitudes of the two functions are measured and evaluated at the turning point, to be precise in such a way that one of the amplitudes or the maximum neighbouring the amplitude measured at the turning point serves as reference voltage and the other amplitude gives the measured value. <IMAGE>

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B30B 15/18

IPC 8 full level

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CPC (source: EP US)

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Cited by

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