

Title (en)

METHOD AND DEVICE FOR CONTROLLING AND REGULATING SERVO-ELECTRIC DIE CUSHIONS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR STEUERUNG UND REGELUNG VON SERVO-ELEKTRISCHEN ZIEHKISSEN

Title (fr)

PROCEDE ET DISPOSITIF POUR COMMANDER ET REGLER DES COUSSINS DE SERRE-FLAN SERVO-ELECTRIQUES

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Application

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Abstract (en)

[origin: WO2006099845A1] The invention relates to a method for controlling and regulating servo-electric die cushions (8, 9) on forming presses and to a device for carrying out said method. A stable and precise operation in the phase of the force-regulated (15) drawing process and in all phases of the charge-regulated displacement (14, 16) of the cushion are possible due to the simple structure of the control and regulation and a reduced number of steps in the control and/or regulation operation. The conductive wave-regulated electronic curve disk regulation principle is combined with the force regulation in order to control and regulate the die cushion (8, 9), such that all displacement phases (14, 15, 16) of the die cushion, which are not in mechanical contact with the press slide, are controlled by electronic position-curve slides (12) during which the movements are in contact with the press slide due to force regulation with a path-dependent controlled force desired value profile.

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