

Title (en)
ELECTRICAL PRESSING DEVICE

Title (de)
ELEKTRISCHE PRESSVORRICHTUNG

Title (fr)
DISPOSITIF DE PRESSE ELECTRIQUE

Publication
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Application
EP 03769232 A 20031009

Priority
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Abstract (en)
[origin: CA2504221A1] The invention relates to an electrical pressing device comprising an electric motor (2); a step-up gear (8); a spindle drive (66) embodied as a threaded roller screw drive, the threaded spindle (14) thereof being connected to the step-up gear (8), and the threaded nut (16) thereof being guided in a cylindrical housing (22) in a rotationally fixed and axially displaceable manner and being connected to a pressing tool, for converting a rotational movement of the electric motor (2) into a linear movement of the pressing tool; a displacement sensor (30) for determining the distance covered by the pressing tool; and a sensor (10) for determining the compressive force of the pressing tool. The threaded spindle (14) is mounted in the housing by means of a pre-stressed set of angular ball bearings (12), the first angular ball bearing (46) being used to absorb tractive forces and the second angular ball bearing (48) being used to absorb compressive forces. The internal rings of the angular ball bearings (46, 48) are clamped next to each other, against a shaft shoulder (54) of the threaded spindle (14), by means of a shaft nut (52), and the outer rings of the angular ball bearings (46, 48) are clamped next to each other, against a projection (58) of the housing, by means of a housing nut (56), such that the inventive device can absorb essentially identical tractive or pressure forces, without axial play.

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