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The invention relates to mechanical engineering, namely to devices for surface treatment by plastic deformation and vibration smoothing with diamond of outer surfaces of cylindrical parts.
The installation for vibration smoothing with diamond of outer surfaces of cylindrical parts comprises a body (14) with a tray (15) for feeding and orienting the parts (5), which communicates with lead-in rollers (9), fixed by means of rods (13) to the body (14), inside which is placed a prism (2), oriented by guides (3), inside which, on the edges along its longitudinal axis, are made longitudinal grooves, in which are placed rolling bodies (1), and in the center of the prism (2) are fixed diamond tools (7). The installation also comprises a lead-in cylinder (6), on the outer surface of which are made helical grooves, and which is actuated by a reduction gearmotor (8). At the same time the prism (2) is placed with the possibility of reciprocating motion along the guides (3), by means of an electromagnet (12) with core (4) and of springs (11).

Claims: 1
Fig.: 3