

The invention relates to the field of mechanical engineering, namely to devices for surface treatment by plastic deformation and by 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 chute (2), made in the form of a pipe, for feeding and orienting the parts (1) which, by means of a lead-in cylinder (3), on the outer surface of which are made helical grooves, are driven in a circular movement around their axis, a drive mechanism (4) for driving the lead-in cylinder (3). The installation also comprises a guide and adjusting support (16) of a holder (13), fixed to the chute (2) on the opposite side of the lead-in cylinder (3), a screw (10), fixed perpendicular to the chute (2) to the guide and adjusting support (16) with the possibility of adjusting the pressure force of the holder (13) on the surface of the parts (1), at the same time the screw (10) communicates with the holder (13) by means of a support plate (11) and balls (12), and the holder (13) – with a diamond (15) by means of an indenter (14). At the same time the holder (13) comprises a support (9), which is placed with the possibility of longitudinal displacement in a guide channel (18) of the core (8) of an electromagnet (5) with a socket (6) and a spring (7), placed in the lower part of the guide and an adjusting support (16).

Claims: 1

Fig.: 2

