

Universal spindle rotation-pressing machine has housing, drive, supply and drawing units, forging block, comprising of housing, hollow spindle, support ring, front and back plates, separator, rollers, installed at the circle of the separator in fixation holes, slides, heads with measurement layers. New is the fact that coaxially to fixation holes of separator same openings are placed, in the front and back plates, with formation of common troughs with possibility of rollers motion in those in longitudinal direction; and the length of the rollers is equal to doubled thickness of separator. At that at the half of the length of the rollers in direction of the back plate flat spots are made with radius equal to inner radius of separator; and from the ends of the rollers directed to the front plate bosses are made with non-circular cross-section, those go to the housings of the front plate; at that configuration of those is of such a type that this makes it possible to installed the rollers with the flat points turned to the forging block center only, and the rollers are hinged to rods going through apertures of the front block where springy elements are placed and bosses fixed, with threading. At that the springy elements are installed in cups with threading, rigidly fixed in the front plate, with possibility of fixation of rods in it by means of the bosses; and at the free ends of the rollers grooves are made, and coaxially to those – openings in the housing. Rollers in separator are installed in circle, nonuniformly and in such a way that central angles between those have such a sequence: $30^{\circ}(1,2)$ - $60^{\circ}(2,3)$ - $60^{\circ}(3,4)$ - $30^{\circ}(4,5)$ - $30^{\circ}(5,6)$ - $60^{\circ}(6,7)$ - $60^{\circ}(7,8)$ - $30^{\circ}(8,1)$, where in brackets numbers of the fixation holes of separator between which the central angle pointed out is formed are shown; and in fixation holes with numbers (3), (7) working rollers only are placed. In comparison to known machines the universal spindle rotation-pressing machine proposed enlarges technological possibilities of the machines of such type, since it makes it possible to increase the profile assortment of wires produced on it.